YASKAWA

YRC1000

# ALARM CODES
## (MAJOR ALARMS)

- Upon receipt of the product and prior to initial operation, read these instructions thoroughly, and retain for future reference.
- This instruction consists of “MAJOR ALARMS” version and “MINOR ALARMS” version.

MOTOMAN INSTRUCTIONS

MOTOMAN-□□□ INSTRUCTIONS
YRC1000 INSTRUCTIONS
YRC1000 OPERATOR’S MANUAL (GENERAL) (SUBJECT SPECIFIC)
YRC1000 MAINTENANCE MANUAL
YRC1000 ALARM CODES (MAJOR ALARMS) (MINOR ALARMS)

Have the following information available when contacting the YASKAWA Representative:

- System
- Primary Application
- Software Version *(Located on Programming Pendant by selecting: {Main Menu} - {System Info} - {Version})*
- Warranty ID *(Located on Robot Controller)*
- Robot Serial Number *(Located on Manipulator data plate)*
- Robot Sales Order Number *(Located on Robot controller data plate)*

MANUAL NO. RE-CER-A600 ⑤
MAJOR ALARMS

Part Number: 178644-1CD
Revision: 4

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# About This Manual

# i.1 Notes for Safe Operation

**⚠DANGER**

**This manual explains the ALARM CODES of the YRC1000 system. Read this manual carefully and be sure to understand its contents before handling this product. Any matter not described in this manual must be regarded as “prohibited” or “improper”.**
**General information related to safety are described in “Chapter 1. Safety” of the YRC1000 INSTRUCTIONS. To ensure correct and safe operation, carefully read “Chapter 1. Safety” of the INSTRUCTIONS.**

**⚠CAUTION**

**In some drawings in this manual, protective covers or shields are removed to show details. Make sure that all the covers or shields are installed in place before operating this product. YASKAWA is not responsible for incidents arising from unauthorized modification of its products. Unauthorized modification voids the product warranty.**

**NOTICE**

**The drawings and photos in this manual are representative examples and differences may exist between them and the delivered product.**
**YASKAWA may modify this model without notice when necessary due to product improvements, modifications, or changes in specifications. If such modification is made, the manual number will also be revised.**
**If your copy of the manual is damaged or lost, contact a YASKAWA representative to order a new copy. Be sure to tell the representative the manual number listed on the front cover.**

## ◆ Safety Information

Read this manual carefully before installation, operation, maintenance, or inspection of this product.
In this manual, the Notes for Safe Operation are classified as “DANGER”, “WARNING”, “CAUTION”, or “NOTICE”.

**⚠DANGER**

**Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. Safety Signs identified by the signal word DANGER should be used sparingly and only for those situations presenting the most serious hazards.**

**⚠WARNING**

**Indicates a potentially hazardous situation which, if not avoided, will result in death or serious injury. Hazards identified by the signal word WARNING present a lesser degree of risk of injury or death than those identified by the signal word DANGER.**

**⚠CAUTION**

**Indicates a hazardous situation, which if not avoided, could result in minor or moderate injury. It may also be used without the safety alert symbol as an alternative to “NOTICE”.**

**NOTICE**

**NOTICE is the preferred signal word to address practices not related to personal injury. The safety alert symbol should not be used with this signal word. As an alternative to “NOTICE”, the word “CAUTION” without the safety alert symbol may be used to indicate a message not related to personal injury.**

Even items described as “CAUTION” may result in a serious accident in some situations. At any rate, be sure to follow these important items.

## ◆ Safety Precautions That Must Always Be Observed

**⚠DANGER**

**Before operating the manipulator, make sure the servo power is turned OFF by performing the following operations. When the servo power is turned OFF, the SERVO ON LED on the programming pendant is turned OFF.**

- **Press the emergency stop buttons on the front door of the YRC1000, on the programming pendant, on the external control device, etc.**
- **Disconnect the safety plug of the safety fence. (when in the play mode or in the remote mode)**

If operation of the manipulator cannot be stopped in an emergency, personal injury and/or equipment damage may result.

<Emergency Stop Button>

**Before releasing the emergency stop, make sure to remove the obstacle or error caused the emergency stop, if any, and then turn the servo power ON.**

Failure to observe this instruction may cause unintended movement of the manipulator, which may result in personal injury.

<Release of Emergency Stop>


**Observe the following precautions when performing a teaching operation within the manipulator's operating range:**

- **Be sure to perform lockout by putting a lockout device on the safety fence when going into the area enclosed by the safety fence. In addition, the operator of the teaching operation must display the sign that the operation is being performed so that no other person closes the safety fence.**
- **View the manipulator from the front whenever possible.**
- **Always follow the predetermined operating procedure.**
- **Always keep in mind emergency response measures against the manipulator’s unexpected movement toward a person.**
- **Ensure a safe place to retreat in case of emergency.**

Failure to observe this instruction may cause improper or unintended movement of the manipulator, which may result in personal injury.

## ⚠DANGER

**Confirm that no person is present in the manipulator's operating range and that the operator is in a safe location before:**

- **Turning ON the YRC1000 power**
- **Moving the manipulator by using the programming pendant**
- **Running the system in the check mode**
- **Performing automatic operations**

Personal injury may result if a person enters the manipulator's operating range during operation. Immediately press an emergency stop button whenever there is a problem.
The emergency stop buttons are located on the front panel of the YRC1000 and on the upper right of the programming pendant.

**Read and understand the Explanation of the Warning Labels before operating the manipulator.**

## ⚠WARNING

**Perform the following inspection procedures prior to conducting manipulator teaching. If there is any problem, immediately take necessary steps to solve it, such as maintenance and repair.**

- **Check for a problem in manipulator movement.**
- **Check for damage to insulation and sheathing of external wires.**

**Always return the programming pendant to the hook on the cabinet after use.**
If the programming pendant is left unattended on the manipulator, on a fixture, or on the floor, etc., the Enable Switch may be activated due to surface irregularities of where it is left, and the servo power may be turned ON. In addition, in case the operation of the manipulator starts, the manipulator or the tool may hit the programming pendant left unattended, which may result in personal injury and/or equipment damage.

## ◆ Definition of Terms Used Often in This Manual

The MOTOMAN is the YASKAWA industrial robot product.
The MOTOMAN usually consists of the manipulator, the controller, the programming pendant, and manipulator cables.
In this manual, the equipment is designated as follows.

| Equipment | Manual Designation |
|---|---|
| YRC1000 controller | YRC1000 |
| YRC1000 programming pendant | Programming pendant |
| Cable between the manipulator and the controller | Manipulator cable |

Descriptions of the programming pendant keys, buttons, and displays are shown as follows:

| Equipment | | Manual Designation |
|---|---|---|
| Programming Pendant | Character Keys/Symbol Keys | The keys which have characters or symbols printed on them are denoted with [ ].<br>e.g. [ENTER] |
| | Axis Keys/Numeric Keys | [Axis Key] and [Numeric Key] are generic names for the keys for axis operation and number input. |
| | Keys pressed simultaneously | When two keys are to be pressed simultaneously, the keys are shown with a “+” sign between them, e.g. [SHIFT]+[COORD]. |
| | Mode Switch | Mode Switch can select three kinds of modes that are denoted as follows: REMOTE, PLAY or TEACH.<br>(The switch names are denoted as symbols) |
| | Button | The three buttons on the upper side of the programming pendant are denoted as follows: START, HOLD, or EMERGENCY STOP.<br>(The button names are denoted as symbols) |
| | Displays | The menu displayed in the programming pendant is denoted with { }.<br>e.g. {JOB} |


## ◆ Description of the Operation Procedure

In the explanation of the operation procedure, the expression “Select • • •” means that the cursor is moved to the object item and the [SELECT] is pressed, or that the item is directly selected by touching the screen.

## ◆ Registered Trademark

In this manual, names of companies, corporations, or products are trademarks, registered trademarks, or brand names for each company or corporation.
The indications of (R) and TM are omitted.

# 1

# Alarm List

# 1.1 Alarm Number (0000 to 0999)

## ◆ 0010: CPU BOARD INSERTION ERROR (SV)

ACP01 board detect the connection and insertion board error of SDCA01 board when the control power turned ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | ACP01 board was not able to recognize SDCA01 board when the control power turned ON.<br>SubCode:Subcode shows the error part of SDCA01 board. (There is possibility of combination of follow boards)<br>0000_0001 : SDCA01#1<br>0000_0010 : SDCA01#2<br>0000_0100 : SDCA01#3<br>0000_1000 : SDCA01#4<br>0001_0000 : SDCA01#5<br>0010_0000 : SDCA01#6<br>0100_0000 : SDCA01#7<br>1000_0000 : SDCA01#8 | Setting error | Check the following settings.<br>Not found the ASF01 board (RSW=0).<br>• The SDCA01 board rotary switch setting (0)<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting.<br>• The rotary switch setting is different from the ASF01 board on the SDCA01 board rotary switch setting. Check the rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0011: CPU BOARD INSERTION ERROR (Safety)

ACP01 board detect the connection and insertion board error of ASF01 board when the control power turned ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | ACP01 board was not able to recognize ASF01 board when the control power turned ON.<br>SubCode:Subcode shows the error part of ASF01 board.<br>(There is possibility of combination of follow boards)<br>0000_0001 : ASF01#1<br>0000_0010 : ASF01#2<br>0000_0100 : ASF01#3<br>0000_1000 : ASF01#4<br>0001_0000 : ASF01#5<br>0010_0000 : ASF01#6<br>0100_0000 : ASF01#7<br>1000_0000 : ASF01#8 | Setting error | Check the following settings.<br>Not found the ASF01 board (RSW=0).<br>• The ASF01 board rotary switch setting (0) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the ASF01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0012: CPU BOARD SETTING ERROR

ACP01 board detect the setting error of ASF01 board when the control power turned ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | ACP01 board was not able to recognize ASF01 board when the control power turned ON. | Setting error | Check the following settings.<br>Not found the ASF01 board (RSW=0).<br>• The ASF01 board rotary switch setting (0) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the ASF01 board. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | No response was sent from the ASF01 board when the control power turned ON. | Setting error | Check the following settings.<br>Not found the ASF01 board (RSW=0).<br>• The ASF01 board rotary switch setting (0) |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

### 0012: CPU BOARD SETTING ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3 | No response was sent from the ASF01 board when the control power turned ON. | Setting error | Check the following settings.<br>Not found the ASF01 board (RSW=0).<br>• The ASF01 board rotary switch setting (0) |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | No response was sent from the SDCA01 board #1 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | No response was sent from the SDCA01 board #2 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting. |

**0012: CPU BOARD SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | No response was sent from the SDCA01 board #3 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0012: CPU BOARD SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | No response was sent from the SDCA01 board #4 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | No response was sent from the SDCA01 board #5 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |

**0012: CPU BOARD SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | No response was sent from the SDCA01 board #6 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | No response was sent from the SDCA01 board #7 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting. |

**0012: CPU BOARD SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | No response was sent from the SDCA01 board #8 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0012: CPU BOARD SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | No response was sent from the SDCA01 board #1 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | No response was sent from the SDCA01 board #2 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |

**0012: CPU BOARD SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | No response was sent from the SDCA01 board #3 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0012: CPU BOARD SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | No response was sent from the SDCA01 board #4 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | No response was sent from the SDCA01 board #5 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |

**0012: CPU BOARD SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | No response was sent from the SDCA01 board #6 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0012: CPU BOARD SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | No response was sent from the SDCA01 board #7 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | No response was sent from the SDCA01 board #8 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |

**0012: CPU BOARD SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | ACP01 board was not able to recognize AIF01 board when the control power turned ON. | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• ACP01 board<br>• AIF01 board |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | ACP01 board was not able to recognize ASF04 board when the control power turned ON. | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• ASF04 board<br>• ACP01 board<br>• AIF01 board |
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. Replace the ASF04 board, and then load the CMOS.BIN saved before alarm occurred. |

**0012: CPU BOARD SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 50 | ACP01 board was not able to recognize SDCA01#1 board when the control power turned ON. | Setting error | Check the following settings.<br>• Check the SDCA01 board rotary switch setting. Not found the SDCA01 board (RSW=0).<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting.<br>• The rotary switch setting is different from the ASF01 board on the SDCA01 board rotary switch setting. Check the rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01#1 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01#1 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 51 | ACP01 board was not able to recognize SDCA01#2 board when the control power turned ON. | Setting error | Check the following settings.<br>• Check the SDCA01 board rotary switch setting. Not found the SDCA01 board (RSW=1).<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting.<br>• The rotary switch setting is different from the ASF01 board on the SDCA01 board rotary switch setting. Check the rotary switch setting. Check the rotary switch setting. |

**0012: CPU BOARD SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01#2 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01#2 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 52 | ACP01 board was not able to recognize SDCA01#3 board when the control power turned ON. | Setting error | Check the following settings.<br>• Check the SDCA01 board rotary switch setting. Not found the SDCA01 board (RSW=2).<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting.<br>• The rotary switch setting is different from the ASF01 board on the SDCA01 board rotary switch setting. Check the rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01#3 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01#3 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

### 0012: CPU BOARD SETTING ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 53 | ACP01 board was not able to recognize SDCA01#4 board when the control power turned ON. | Setting error | Check the following settings.<br>• Check the SDCA01 board rotary switch setting. Not found the SDCA01 board (RSW=3).<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting.<br>• The rotary switch setting is different from the ASF01 board on the SDCA01 board rotary switch setting. Check the rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01#4 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01#4 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 54 | ACP01 board was not able to recognize SDCA01#5 board when the control power turned ON. | Setting error | Check the following settings.<br>• Check the SDCA01 board rotary switch setting. Not found the SDCA01 board (RSW=4).<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting.<br>• The rotary switch setting is different from the ASF01 board on the SDCA01 board rotary switch setting. Check the rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01#5 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01#5 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0012: CPU BOARD SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 55 | ACP01 board was not able to recognize SDCA01#6 board when the control power turned ON. | Setting error | Check the following settings.<br>• Check the SDCA01 board rotary switch setting. Not found the SDCA01 board (RSW=5).<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting.<br>• The rotary switch setting is different from the ASF01 board on the SDCA01 board rotary switch setting. Check the rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01#6 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01#6 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 56 | ACP01 board was not able to recognize SDCA01#7 board when the control power turned ON. | Setting error | Check the following settings.<br>• The SDCA01 board rotary switch setting<br>Not found the ASF01 board (RSW=6).<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting.<br>• The rotary switch setting is different from the ASF01 board on the SDCA01 board rotary switch setting. Check the rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01#7 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01#7 board. |

**0012: CPU BOARD SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 57 | ACP01 board was not able to recognize SDCA01#8 board when the control power turned ON. | Setting error | Check the following settings.<br>• The SDCA01 board rotary switch setting<br>Not found the ASF01 board (RSW=7).<br>• The rotary switch setting is overlapped to the other SDCA01 board rotary switch setting. Check the rotary switch setting.<br>• The rotary switch setting is different from the ASF01 board on the SDCA01 board rotary switch setting. Check the rotary switch setting. Check the rotary switch setting. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01#8 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01#8 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0020: CPU COMMUNICATION ERROR

The YRC1000 previously stores the connected CPU boards, and checks if each board properly responds on a startup. This alarm occurs if there is any CPU board which does not properly respond to the YRC1000.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | No response was sent from the ACP01 board when the control power turned ON. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the insertion of the following board.<br>• ACP01 board |

**0020: CPU COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | No response was sent from the optional board #1 when the control power turned ON. | Setting error | Check the following settings.<br>• Optional board setting in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the insertion of the following board.<br>• ACP02 board |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | No response was sent from the optional board #2 when the control power turned ON. | Setting error | Check the following settings.<br>• The optional board setting in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the insertion of the following board.<br>• ACP02 board |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |

**0020: CPU COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | No response was sent from the optional board #3 when the control power turned ON. | Setting error | Check the following settings.<br>• Optional board setting in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the insertion of the following board.<br>• ACP02 board |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 23 | No response was sent from the optional board #4 when the control power turned ON. | Setting error | Check the following settings.<br>• Optional board setting in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the insertion of the following board.<br>• ACP02 board |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |

**0020: CPU COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 24 | No response was sent from the optional board #5 when the control power turned ON. | Setting error | Check the following settings.<br>• Optional board setting in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the insertion of the following board.<br>• ACP02 board |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 25 | No response was sent from the optional board #6 when the control power turned ON. | Setting error | Check the following settings.<br>• Optional board setting in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the insertion of the following board.<br>• ACP02 board |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |

**0020: CPU COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 26 | No response was sent from the optional board #7 when the control power turned ON. | Setting error | Check the following settings.<br>• Optional board setting in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the insertion of the following board.<br>• ACP02 board |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 27 | No response was sent from the optional board #8 when the control power turned ON. | Setting error | Check the following settings.<br>• Optional board setting in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the insertion of the following board.<br>• ACP02 board |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |

**0020: CPU COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | No response was sent from the ASF01 board #1 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board rotary switch setting (0) of the corresponding node number<br>• The SDCA01 board rotary switch setting (0) of the corresponding node number (SV#1) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 31 | No response was sent from the ASF01 board #2 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board rotary switch setting (1) of the corresponding node number<br>• The SDCA01 board rotary switch setting (1) of the corresponding node number (SV#2) |

**0020: CPU COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32 | No response was sent from the ASF01 board #3 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board rotary switch setting (2) of the corresponding node number<br>• The SDCA01 board rotary switch setting (2) of the corresponding node number (SV#3) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0020: CPU COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 33 | No response was sent from the ASF01 board #4 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board rotary switch setting (3) of the corresponding node number<br>• The SDCA01 board rotary switch setting (3) of the corresponding node number (SV#4) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 34 | No response was sent from the ASF01 board #5 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board rotary switch setting (4) of the corresponding node number<br>• The SDCA01 board rotary switch setting (4) of the corresponding node number (SV#5) |

**0020: CPU COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 35 | No response was sent from the ASF01 board #6 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board rotary switch setting (5) of the corresponding node number<br>• The SDCA01 board rotary switch setting (5) of the corresponding node number (SV#6) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0020: CPU COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 36 | No response was sent from the ASF01 board #7 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board rotary switch setting (6) of the corresponding node number<br>• The SDCA01 board rotary switch setting (6) of the corresponding node number (SV#7) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 37 | No response was sent from the ASF01 board #8 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board rotary switch setting (7) of the corresponding node number<br>• The SDCA01 board rotary switch setting (7) of the corresponding node number (SV#8) |

**0020: CPU COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 50 | No response was sent from the SDCA01 board #1 when the control power turned ON.<br>At this time, the YRC1000 may judge it as signal input such as external hold wrong. However, it is caused by the communication error with SDCA01 board #1. Therefore, execute the following measures first of all. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (0) of the corresponding node number (SV#1) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0020: CPU COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 51 | No response was sent from the SDCA01 board #2 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (1) of the corresponding node number (SV#2) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 52 | No response was sent from the SDCA01 board #3 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (2) of the corresponding node number (SV#3) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0020: CPU COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 53 | No response was sent from the SDCA01 board #4 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (3) of the corresponding node number (SV#4) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 54 | No response was sent from the SDCA01 board #5 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (4) of the corresponding node number (SV#5) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0020: CPU COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 55 | No response was sent from the SDCA01 board #6 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (5) of the corresponding node number (SV#6) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 56 | No response was sent from the SDCA01 board #7. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (6) of the corresponding node number (SV#7) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0020: CPU COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 57 | No response was sent from the SDCA01 board #8 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (7) of the corresponding node number (SV#8) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 60 | No response was sent from the ASF04 board #1 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (0) of the corresponding node number (PFL#1) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN231/232 cable of ASF04 board<br>• The cable of ASF04 board connector CN239/240<br>• The cable of AIF01 board connector CN113<br>• The cable of CPS01K* unit connector CN156 |
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0020: CPU COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 61 | No response was sent from the ASF04 board #2 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (1) of the corresponding node number (PFL#2) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN231/232 cable of ASF04 board<br>• The cable of ASF04 board connector CN239/240<br>• The cable of AIF01 board connector CN113<br>• The cable of CPS01K* unit connector CN156 |
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0021: COMMUNICATION ERROR(SERVO)

The YRC1000 transfers special commands to operate SERVO units on its startup as well as its regular operation process. This alarm occurs if there is any communication failure in transferring the special commands.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 50 | The Main CPU detected an communication error for the SDCA01 board #1 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (0) of the corresponding node number (SV#1) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0021: COMMUNICATION ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 51 | The Main CPU detected an communication error for the SDCA01 board #2 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (1) of the corresponding node number (SV#2) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 52 | The Main CPU detected an communication error for the SDCA01 board #3 when the control power turned ON. | Setting error | 1. Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (2) of the corresponding node number (SV#3) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0021: COMMUNICATION ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 53 | The Main CPU detected an communication error for the SDCA01 board #4 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (3) of the corresponding node number (SV#4) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 54 | The Main CPU detected an communication error for the SDCA01 board #5 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (4) of the corresponding node number (SV#5) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0021: COMMUNICATION ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 55 | The Main CPU detected an communication error for the SDCA01 board #6 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (5) of the corresponding node number (SV#6) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 56 | The Main CPU detected an communication error for the SDCA01 board #7 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (6) of the corresponding node number (SV#7) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0021: COMMUNICATION ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 57 | The Main CPU detected an communication error for the SDCA01 board #8 when the control power turned ON. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (7) of the corresponding node number (SV#8) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0030: ROM ERROR

The YRC1000 system program (ROM) runs after RAM expansion executed on a startup. This alarm occurs if there is any failure in the RAM expansion.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The ACP01 system program is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | The system program of optional board #1 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |

**0030: ROM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | The system program of optional board #2 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | The system program of optional board #3 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 23 | The system program of optional board #4 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 24 | The system program of optional board #5 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 25 | The system program of optional board #6 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0030: ROM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 26 | The system program of optional board #7 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 27 | The system program of optional board #8 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | The system program of ASF01 board #1 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 31 | The system program of ASF01 board #2 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0030: ROM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 32 | The system program of ASF01 board #3 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 33 | The system program of ASF01 board #4 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 34 | The system program of ASF01 board #5 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 35 | The system program of ASF01 board #6 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 36 | The system program of ASF01 board #7 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0030: ROM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 37 | The system program of ASF01 board #8 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 50 | The system program of SDCA01 board #1 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 51 | The system program of SDCA01 board #2 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 52 | The system program of SDCA01 board #3 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 53 | The system program of SDCA01 board #4 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0030: ROM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 54 | The system program of SDCA01 board #5 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 55 | The system program of SDCA01 board #6 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 56 | The system program of SDCA01 board #7 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 57 | The system program of SDCA01 board #8 is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0040: HARDWARE INITIALIZE ERROR

An error was detected in the initialization with the hardware when the control power turned ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 00000000 | An error was detected in the initialization with MIII of ASF01 when the control power turned ON. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0060: COMMUNICATION ERROR(I/O MODULE)

The YRC1000 previously stores the connected I/O modules, and check the presence of each module on a startup. This alarm occurs if there is any module of which presence cannot be identified.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | The IO module board connected with 0th serial bus exists. | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the ASF01 board. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| 1 | An error was detected in communications with the I/O module board connected with 1st serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0060: COMMUNICATION ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | An error was detected in communications with the I/O module board connected with 2nd serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | An error was detected in communications with the I/O module board connected with 3rd serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0060: COMMUNICATION ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4 | An error was detected in communications with the I/O module board connected with 4th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | An error was detected in communications with the I/O module board connected with 5th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0060: COMMUNICATION ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 6 | An error was detected in communications with the I/O module board connected with 6th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | An error was detected in communications with the I/O module board connected with 7th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0060: COMMUNICATION ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8 | An error was detected in communications with the I/O module board connected with 8th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | An error was detected in communications with the I/O module board connected with 9th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0060: COMMUNICATION ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 10 | An error was detected in communications with the I/O module board connected with 10th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | An error was detected in communications with the I/O module board connected with 11th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0060: COMMUNICATION ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 12 | An error was detected in communications with the I/O module board connected with 12th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | An error was detected in communications with the I/O module board connected with 13th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0060: COMMUNICATION ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 14 | An error was detected in communications with the I/O module board connected with 14th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | EtherNet/IP(CPU Board) processing could not be started normally when the control power turned ON. | Setting error | Check the following settings.<br>• EtherNet/IP(CPU Board) setting in maintenance mode<br>• LAN interface setting in maintenance mode<br>(In particular, the IP address, subnet mask, default gateway are set correctly, and DHCP is not used)<br>• IO module setting in maintenance mode<br>• IP address setting of devices connected to the network (the same IP address does not exist). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | An error was detected in communications with the I/O module board connected with 1st PCI connector when the control power turned ON. | Setting error | Check the following settings.<br>• PCI slot number in which each PCI board is mounted<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |

**0060: COMMUNICATION ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCI board) |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | PROFINET CP1616 board failure | In the case of CP1616(PROFINET) board, please confirm the following communication configuration using SIEMENS manufactured setting tool (TIA Portal). Please refer to the user manual of the CP1616 for more information on how to set.<br>• Download the project file.<br>• Assignment of IP address and device name. |
| | | PROFINET SST-PN-2-PE board failure | In the case of SST-PN-2-PE(PROFINET) board, please confirm communication configuration using Molex manufactured setting tool (Product Configuration Tool). Please refer to the user manual of the SST-PN-2-PE for more information on how to set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | An error was detected in communications with the I/O module board connected with 2nd PCI when the control power turned ON. | Setting error | Check the following settings.<br>• PCI slot number in which each PCI board is mounted<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCI board) |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | PROFINET CP1616 board failure | In the case of CP1616(PROFINET) board, please confirm the following communication configuration using SIEMENS manufactured setting tool (TIA Portal). Please refer to the user manual of the CP1616 for more information on how to set.<br>• Download the project file.<br>• Assignment of IP address and device name. |

**0060: COMMUNICATION ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | PROFINET SST-PN-2-PE board failure | In the case of SST-PN-2-PE(PROFINET) board, please confirm communication configuration using Molex manufactured setting tool (Product Configuration Tool). Please refer to the user manual of the SST-PN-2-PE for more information on how to set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | An error was detected in communications with the I/O module board connected with 3rd PCI when the control power turned ON. | Setting error | Check the following settings.<br>• PCI slot number in which each PCI board is mounted<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCI board) |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | PROFINET CP1616 board failure | In the case of CP1616(PROFINET) board, please confirm the following communication configuration using SIEMENS manufactured setting tool (TIA Portal). Please refer to the user manual of the CP1616 for more information on how to set.<br>• Download the project file.<br>• Assignment of IP address and device name. |
| | | PROFINET SST-PN-2-PE board failure | In the case of SST-PN-2-PE(PROFINET) board, please confirm communication configuration using Molex manufactured setting tool (Product Configuration Tool). Please refer to the user manual of the SST-PN-2-PE for more information on how to set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | An error was detected in communications with the I/O module board connected with 4th PCI when the control power turned ON. | Setting error | Check the following settings.<br>• PCI slot number in which each PCI board is mounted<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the corresponding I/O module |

**0060: COMMUNICATION ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCI board) |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | PROFINET CP1616 board failure | In the case of CP1616(PROFINET) board, please confirm the following communication configuration using SIEMENS manufactured setting tool (TIA Portal). Please refer to the user manual of the CP1616 for more information on how to set.<br>• Download the project file.<br>• Assignment of IP address and device name. |
| | | PROFINET SST-PN-2-PE board failure | In the case of SST-PN-2-PE(PROFINET) board, please confirm communication configuration using Molex manufactured setting tool (Product Configuration Tool). Please refer to the user manual of the SST-PN-2-PE for more information on how to set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0100: COMMUNICATION ERROR(SV#1)

The serial communications between ACP01 board and SDCA01 board in the YRC1000 is monitored by each board.
This alarm occurs if ACP01detects an error in the serial communication between ACP01 board and 1st SDCA01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The error was detected during the check of the serial communication watchdog data. Counter value received from SDCA01 board is invalid. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (0) of the corresponding node number (SV#1) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN157 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |

**0100: COMMUNICATION ERROR(SV#1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The error was detected during the check of the serial communication watchdog data. Watchdog data cannot be received from SDCA01 board. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (0) of the corresponding node number (SV#1) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board #1<br>• The cable of SDCA01 board #1 connector CN515<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN157 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0101: COMMUNICATION ERROR(SV#2)

The serial communications between ACP01 board and SDCA01 board in the YRC1000 is monitored by each board.
This alarm occurs if ACP01detects an error in the serial communication between ACP01 board and 2nd SDCA01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The error was detected during the check of the serial communication watchdog data. Counter value received from SDCA01 board is invalid. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (1) of the corresponding node number (SV#2) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN157 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The error was detected during the check of the serial communication watchdog data. Watchdog data cannot be received from SDCA01 board. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (1) of the corresponding node number (SV#2) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board #2<br>• The cable of SDCA01 board #2 connector CN515<br>• The cable of SDCA01 board #1 connector CN516<br>• The cable of CPS unit connector CN157 |

**0101: COMMUNICATION ERROR(SV#2) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0102: COMMUNICATION ERROR(SV#3)

The serial communications between ACP01 board and SDCA01 board in the YRC1000 is monitored by each board.
This alarm occurs if ACP01detects an error in the serial communication between ACP01 board and 3rd SDCA01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The error was detected during the check of the serial communication watchdog data. Counter value received from SDCA01 board is invalid. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (2) of the corresponding node number (SV#3) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN157 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0102: COMMUNICATION ERROR(SV#3) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3 | The error was detected during the check of the serial communication watchdog data. Watchdog data cannot be received from SDCA01 board. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (2) of the corresponding node number (SV#3) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board #3<br>• The cable of SDCA01 board #3 connector CN515<br>• The cable of SDCA01 board #2 connector CN516<br>• The cable of CPS unit connector CN157 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0103: COMMUNICATION ERROR(SV#4)

The serial communications between ACP01 board and SDCA01 board in the YRC1000 is monitored by each board.
This alarm occurs if ACP01detects an error in the serial communication between ACP01 board and 4th SDCA01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The error was detected during the check of the serial communication watchdog data. Counter value received from SDCA01 board is invalid. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (3) of the corresponding node number (SV#4) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN157 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0103: COMMUNICATION ERROR(SV#4) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The error was detected during the check of the serial communication watchdog data. Watchdog data cannot be received from SDCA01 board. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (3) of the corresponding node number (SV#4) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board #4<br>• The cable of SDCA01 board #4 connector CN515<br>• The cable of SDCA01 board #3 connector CN516<br>• The cable of CPS unit connector CN157 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0104: COMMUNICATION ERROR(SV#5)

The serial communications between ACP01 board and SDCA01 board in the YRC1000 is monitored by each board.
This alarm occurs if ACP01detects an error in the serial communication between ACP01 board and 5th SDCA01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The error was detected during the check of the serial communication watchdog data. Counter value received from SDCA01 board is invalid. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (4) of the corresponding node number (SV#5) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN157 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |

**0104: COMMUNICATION ERROR(SV#5) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The error was detected during the check of the serial communication watchdog data. Watchdog data cannot be received from SDCA01 board. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (4) of the corresponding node number (SV#5) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board #5<br>• The cable of SDCA01 board #5 connector CN515<br>• The cable of SDCA01 board #4 connector CN516<br>• The cable of CPS unit connector CN157 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0105: COMMUNICATION ERROR(SV#6)

The serial communications between ACP01 board and SDCA01 board in the YRC1000 is monitored by each board.
This alarm occurs if ACP01detects an error in the serial communication between ACP01 board and 6th SDCA01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The error was detected during the check of the serial communication watchdog data. Counter value received from SDCA01 board is invalid. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (5) of the corresponding node number (SV#6) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN157 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The error was detected during the check of the serial communication watchdog data. Watchdog data cannot be received from SDCA01 board. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (5) of the corresponding node number (SV#6) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board #6<br>• The cable of SDCA01 board #6 connector CN515<br>• The cable of SDCA01 board #5 connector CN516<br>• The cable of CPS unit connector CN157 |

**0105: COMMUNICATION ERROR(SV#6) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0106: COMMUNICATION ERROR(SV#7)

The serial communications between ACP01 board and SDCA01 board in the YRC1000 is monitored by each board.
This alarm occurs if ACP01detects an error in the serial communication between ACP01 board and 7th SDCA01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The error was detected during the check of the serial communication watchdog data. Counter value received from SDCA01 board is invalid. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (6) of the corresponding node number (SV#7) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN157 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0106: COMMUNICATION ERROR(SV#7) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3 | The error was detected during the check of the serial communication watchdog data. Watchdog data cannot be received from SDCA01 board. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (6) of the corresponding node number (SV#7) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board #7<br>• The cable of SDCA01 board #7 connector CN515<br>• The cable of SDCA01 board #6 connector CN516<br>• The cable of CPS unit connector CN157 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0107: COMMUNICATION ERROR(SV#8)

The serial communications between ACP01 board and SDCA01 board in the YRC1000 is monitored by each board.
This alarm occurs if ACP01detects an error in the serial communication between ACP01 board and 8th SDCA01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The error was detected during the check of the serial communication watchdog data. Counter value received from SDCA01 board is invalid. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (7) of the corresponding node number (SV#8) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN157 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0107: COMMUNICATION ERROR(SV#8) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The error was detected during the check of the serial communication watchdog data. Watchdog data cannot be received from SDCA01 board. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (7) of the corresponding node number (SV#8) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board #8<br>• The cable of SDCA01 board #8 connector CN515<br>• The cable of SDCA01 board #7 connector CN516<br>• The cable of CPS unit connector CN157 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0200: MEMORY ERROR(PARAMETER FILE)

The YRC1000 requires various types of parameters to operate, and performs a check sum during the startup process to ensure that the parameter files are properly retained. This alarm occurs if the YRC1000 detects an error in the check sum.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | The RC parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0200: MEMORY ERROR(PARAMETER FILE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | The RO parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The SV parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The SVM parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0200: MEMORY ERROR(PARAMETER FILE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The SC parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The SD parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The CIO parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |

**0200: MEMORY ERROR(PARAMETER FILE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The FD parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The AP parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0200: MEMORY ERROR(PARAMETER FILE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 9 | The RS parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | The SE parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | The SVC parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0200: MEMORY ERROR(PARAMETER FILE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | The AMC parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | The SVP parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | The MF parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0200: MEMORY ERROR(PARAMETER FILE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | The SVS parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 125 | RE parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 126 | FMS parameter is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |

**0200: MEMORY ERROR(PARAMETER FILE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0210: MEMORY ERROR(SYSTEM CONFIG-DATA)

The YRC1000 holds the information to start as a system in the SYSTEM CONFIG-DATA file, and performs a check sum during the startup process to ensure that these files are properly retained. This alarm occurs if the YRC1000 detects an error in the check sum.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The system configuration information data are damaged. | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0220: MEMORY ERROR(JOB MNG DATA)

The YRC1000 holds the user program as data files called JOB, and performs a check sum during the startup process to ensure that these files are properly retained. This alarm occurs if the YRC1000 detects an error in the check sum.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | The management data of job files are damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the job file in maintenance mode, and then load the data (job, variable data, Robot calibration data) saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | The job files are damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the job file in maintenance mode, and then load the data (job, variable data, Robot calibration data) saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The management data of position data files are damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the job file in maintenance mode, and then load the data (job, variable data, Robot calibration data) saved in the external memory device. |

**0220: MEMORY ERROR(JOB MNG DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Memory and play back file is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0230: MEMORY ERROR (LADDER PRG FILE)

A program software PLC which runs in the YRC1000 is stored in the ladder program file. The YRC1000 performs a check sum during the startup process to ensure that these files are properly retained. This alarm occurs if the YRC1000 detects an error in the check sum.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The CIO ladder file is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0230: MEMORY ERROR (LADDER PRG FILE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0270: MEMORY ERROR(SD BACKUP FILE)

To operate the YRC1000 properly, the settings of each file (backup file) that is remained even after turning OFF the YRC1000 power supply is needed.
Part of the backup files are stored in the SD card in ACP01 board. By retrieving these backup files from the SD card correctly when turning on the power supply, you can check if the backup files in the SD card are correct. This alarm occurs if this file is found to be incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The system software version is inconsistent with the version when the internal storage data is set or the SD Card on the ACP01 board is damaged. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

## ◆ 0280: MEMORY ERROR(EX IO ALLOC FILE)

The YRC1000 holds the information of EX IO function setting in the EX IO ALLOC FILE, and performs a check sum during the startup process to ensure that these files are properly retained. This alarm occurs if the YRC1000 detects an error in the check sum.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then set the IO module. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0290: MEMORY ERROR(NETWORK SETUP)

The communication setting of the IP address needs to be recorded when using network function for YRC1000. The file with these records are called the network setting file.
By sum check which is performed when turning the power on, this network setting file is checked if it is correct. This alarm occurs if this file is found to be incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The network setting file is damaged. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then set the network again. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0300: VERIFY ERROR(SYSTEM CONFIG-DATA)

The YRC1000 holds the information to start as a system in the data files called "System Configuration Data", and performs a validity check on the data files if they are properly configured. This alarm occurs if the YRC1000 detects an error in the validity check.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | CIO parameter error. | Setting error | Check the following settings.<br>• I/O module settings in maintenance mode |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Axis-related parameter error. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0300: VERIFY ERROR(SYSTEM CONFIG-DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Sensor-use parameter error. | Setting error | Check the following settings.<br>• The optional board setting in maintenance mode |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The set optional functions are different from those of the mounted optional board. | Setting error | Check the following settings.<br>• The optional board setting in maintenance mode |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | IO type error (combination impossible to coexist). | Setting error | Check the following settings.<br>• I/O module settings in maintenance mode |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0300: VERIFY ERROR(SYSTEM CONFIG-DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Safety board save data error | Setting error | 1. Select the following menu.<br>• [File]-[Initialize],[Safety Board FLASH Reset] in maintenance mode.<br>2. Turn the power OFF then back ON. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | Ex. AXIS INDIVIDUAL CONTROL Parameter Setting error (EX.TU# out of a range ). | Setting error | Check the following settings.<br>• [Option function] - [Ex. AXIS INDIVIDUAL CONTROL (SDA) ] settings in maintenance mode |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | Ex. AXIS INDIVIDUAL CONTROL Parameter Setting error (Difference in an Ex. AXIS INDIVIDUAL CONTROL Parameter and Physics TU# parameter). | Setting error | Check the following settings.<br>• [Option function] - [Ex. AXIS INDIVIDUAL CONTROL (SDA) ] settings in maintenance mode |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | PFL board save data error | Setting error | 1. Select the following menu.<br>• [File]-[Initialize],[PFL Board FLASH Reset] in maintenance mode.<br>2. Turn the power OFF then back ON. |

**0300: VERIFY ERROR(SYSTEM CONFIG-DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | POWER REGENERATIVE FUNCTION<br>Parameter Setting error. | Setting error | Check the following settings.<br>• [Option function] - [POWER REGENERATIVE FUNCTION] settings in maintenance mode |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | Parameter setting error of the robot detachment function or axes detachment function. | Setting error | Check the following settings.<br>• [OPTION FUNCTION] - [ROBOT DETACHMENT] settings in maintenance mode, Reset the detachment group setting.<br>• [OPTION FUNCTION] - [AXES DETACHMENT] settings in maintenance mode, Reset the detachment axis setting. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | The fast cycle DeviceNet communication can not be available under this setting | Setting error | Check the fast cycle DeviceNet communication setting.<br>• The Channel number for the fast cycle communication(Max channel number is 2).<br>• The Communication IO number for the fast cycle communication(Max IO number is 64Byte). |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0300: VERIFY ERROR(SYSTEM CONFIG-DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 17 | The fast cycle DeviceNet communication can not be available under this setting | Setting error | Check the fast cycle DeviceNet communication setting.<br>• The Channel number for the fast cycle communication(Only 1channel is available).<br>• The Communication IO number for the fast cycle communication(Max IO number is 16Byte). |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | The communication setting written to the EtherNet/IP board (AB3607) and the communication setting recorded in the robot controller do not match. | Setting error | 1. Reconfigure the EtherNet/IP board (AB3607).<br>2. Please reconfirm the setting contents of AB3607.<br>• IP addresses are not duplicated<br>• The sum of the IO sizes does not exceed the upper limit value<br>• The IO input range is less than the communication data size |
| | | AB3607 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AB3607 board. Save the CMOS.BIN before replace the board to be safe. Replace the AB3607 board, and then reconfigure the AB3607 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. And then reconfigure the AB3607 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | Low priority DeviceNet communication cannot be used. | Setting error | Cannot be used simultaneously with the fast cycle DeviceNet communication of SST-DN4. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0300: VERIFY ERROR(SYSTEM CONFIG-DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 20 | Machine Safety board save data error | Setting error | 1. Select the following menu.<br>• [File]-[Initialize],[Safety Board FLASH Reset]<br>2. Turn the power OFF then back ON.<br>3. If the alarm occurs again, select the following menu.<br>• [File]-[Initialize]-[I/O Data],[YSF LOGIC FILE] |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 31 | The combination of the software version and the version of driver for INPACT board (HMSAB.DRV) is incorrect. | Setting error | Please try the software update.<br>In order to know the correct software version, contact your YASKAWA representative about occurrence status (operating procedure). |
| 32 | The fieldbus type of set optional function is not consistent with the fieldbus type of option board. | Setting error | Check the following settings.<br>• Fieldbus type setting of target INpact board in maintenance mode |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCIe board) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 33 | The combination of the software version and the version of driver for HMS board (HMSAB.DRV) is incorrect. | Setting error | Please try the software update.<br>In order to know the correct software version, contact your YASKAWA representative about occurrence status (operating procedure). |
| 34 | The instance number set in EtherNet/IP communication is the same as the instance number used in EtherNet/IP Safety communication. | Setting error | Set an instance number (INPUT INSTANCE / OUTPUT INSTANCE / CONFIGURATION INSTANCE) other than the following for EtherNet/IP(CPU board) instance number.<br>768 to 776, 896 to 904, 1024 to 1032 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0300: VERIFY ERROR(SYSTEM CONFIG-DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 35 | In the EtherNet/IP(CPU Board) EX. ADAPTER settings, the same instance number is used for multiple adapters. | Setting error | When using EtherNet/IP (CPU Board) in the EX.ADAPTER setting, do not duplicate the instance number used in the adapters. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 36 | There is an error in the LAN interface settings used for EtherNet/IP (CPU Board). | Setting error | Check the LAN interface settings used for EtherNet/IP (CPU Board). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 37 | An error occurred in the IP address setting process of the LAN interface used for EtherNet/IP (CPU Board). | Setting error | Check the following settings.<br>1. IP address setting of LAN interface in maintenance mode. (In particular, IP address, subnet mask, default gateway are set correctly, and DHCP is not used)<br>2. IP address setting of devices connected to the network (the same IP address does not exist). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 38 | An error occurred in the CC-Link IE Field setting. | Setting error | Check the CC-Link IE Field settings.<br>(Do not set remote register to disable when the IO size is set to 0 bytes. ) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 40 | The data output function for Self-Diagnosis System can not be available under this setting | Setting error | Check the data output function setting for Self-Diagnosis System.<br>• The number of Servo Control Board(Only 1 board is available). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0301: VERIFY ERROR(OVERRUN INPUT SET)

The YRC1000 verifies if the parameter specification is the same as the OT signal information.
This alarm occurs if the YRC1000 detects an error in the verification process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group<br>Parameter specification and OT signal information are wrong | Setting error | Check the following settings.<br>• Connection settings (OT) in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0310: VERIFY ERROR(CMOS MEMORY SIZE)

The YRC1000 verifies that the AIF01 board type (CMOS memory size) which is detected during the startup is the same as the type set at the time of system configuration. This alarm occurs if the YRC1000 detects an error in the verification process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The CMOS memory capacity is different from its initial setting. | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0320: VERIFY ERROR(I/O MODULE)

The YRC1000 verifies that the I/O module which is detected during the startup is the same as the module set at the time of system configuration. This alarm occurs if the YRC1000 detects an error in the verification process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | The I/O module connected to the PCI express bus is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• The AIO board type connected to ASF01.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ASF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | The I/O module connected to the serial bus #1 is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |

**0320: VERIFY ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The I/O module connected to the serial bus #2 is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The I/O module connected to the serial bus #3 is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |

**0320: VERIFY ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The I/O module connected to the serial bus #4 is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The I/O module connected to the serial bus #5 is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |

**0320: VERIFY ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The I/O module connected to the serial bus #6 is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The I/O module connected to the serial bus #7 is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |

**0320: VERIFY ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The I/O module connected to the serial bus #8 is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | The I/O module connected to the serial bus #9 is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |

**0320: VERIFY ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | The I/O module connected to the serial bus #10 is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | The I/O module connected to the serial bus #11 is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |

**0320: VERIFY ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | The I/O module connected to the serial bus #12 is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | The I/O module connected to the serial bus #13 is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |

**0320: VERIFY ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | The I/O module connected to the serial bus #14 is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | The EtherNet/IP(CPU Board) settings and the function registered in the IO module are different. | Setting error | Check the following settings.<br>1. EtherNet/IP(CPU Board) setting in maintenance mode<br>2. LAN interface setting in maintenance mode<br>3. IO module setting in maintenance mode<br>For details on the setting method, refer to the OPTIONS INSTRUCTIONS EtherNet/IP COMMUNICATION FUNCTION(FOR STANDARD LAN PORT). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0320: VERIFY ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | The I/O module connected to the 1st PCI bus is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• PCI slot number in which each PCI board is mounted<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCI board) |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | The I/O module connected to the 2nd PCI bus is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• PCI slot number in which each PCI board is mounted<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCI board) |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | The I/O module connected to the 3rd PCI bus is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• PCI slot number in which each PCI board is mounted<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |

**0320: VERIFY ERROR(I/O MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCI board) |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | The I/O module connected to the 4th PCI bus is different from the function of the set I/O module. | Setting error | Check the following settings.<br>• PCI slot number in which each PCI board is mounted<br>• I/O module settings in maintenance mode<br>Please refer to the manual of each IO module for the details of the setting |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCI board) |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0330: VERIFY ERROR(APPLICATION)

The YRC1000 verifies that the application parameters are correctly set during a startup process. This alarm occurs if the YRC1000 detects an error in the verification process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0340: VERIFY ERROR(SENSOR FUNCTION)

The YRC1000 verifies that the sensor parameters are correctly set during a startup process. This alarm occurs if the YRC1000 detects an error in the verification process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0370: VERIFY ERROR(SPOT WELDER I/F)

The designation in the parameter is different from the connected welding timer.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The designation in the parameter is different from the connected welding timer. | Setting error | Check the following settings.<br>• The welding timer designation<br>If the welding timer is set to NADEX, check that the EM item of the slave station corresponding to the NADEX timer is'○' in the master setting of the Molex DeviceNet board (SST-DN4). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0390: VERIFY ERROR(SEGMENT CLOCK)

Illegal instruction cycle is set.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Illegal instruction cycle is set. | Setting error | Check the following settings.<br>• Instruction execution cycle |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0400: PARAMETER TRANSMISSION ERROR

The parameters required for the SDCA01 board operation are transferred from the ACP01 board. This alarm occurs if the parameters are not successfully transferred.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 30 | An error occurred during the parameter/file transfer to the ASF01 board #1. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board (#1) rotary switch setting (0)<br>• The SDCA01 board rotary switch setting (0) of the corresponding node number (SV#1) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 31 | An error occurred during the parameter/file transfer to the ASF01 board #2. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board (#2) rotary switch setting<br>• The SDCA01 board rotary switch setting of the corresponding node number (SV#2) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**0400: PARAMETER TRANSMISSION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32 | An error occurred during the parameter/file transfer to the ASF01 board #3. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board (#3) rotary switch setting (2)<br>• The SDCA01 board rotary switch setting (2) of the corresponding node number (SV#3) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 33 | An error occurred during the parameter/file transfer to the ASF01 board #4. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board (#4) rotary switch setting (3)<br>• The SDCA01 board rotary switch setting (3) of the corresponding node number (SV#4) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**0400: PARAMETER TRANSMISSION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 34 | An error occurred during the parameter/file transfer to the ASF01 board #5. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board (#5) rotary switch setting (4)<br>• The SDCA01 board rotary switch setting (4) of the corresponding node number (SV#5) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 35 | An error occurred during the parameter/file transfer to the ASF01 board #6. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board (#6) rotary switch setting (5)<br>• The SDCA01 board rotary switch setting (5) of the corresponding node number (SV#6) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**0400: PARAMETER TRANSMISSION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 36 | An error occurred during the parameter/file transfer to the ASF01 board #7. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board (#7) rotary switch setting (6)<br>• The SDCA01 board rotary switch setting (6) of the corresponding node number (SV#7) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 37 | An error occurred during the parameter/file transfer to the ASF01 board #8. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board (#8) rotary switch setting (7)<br>• The SDCA01 board rotary switch setting (7) of the corresponding node number (SV#8) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**0400: PARAMETER TRANSMISSION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 50 | An error occurred during the parameter/file transfer to the 1st servo board. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (0) of the corresponding node number (SV#1) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 51 | An error occurred during the parameter/file transfer to the 2nd servo board. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (1) of the corresponding node number (SV#2) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0400: PARAMETER TRANSMISSION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 52 | An error occurred during the parameter/file transfer to the 3rd servo board. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (2) of the corresponding node number (SV#3) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 53 | An error occurred during the parameter/file transfer to the 4th servo board. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (3) of the corresponding node number (SV#4) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0400: PARAMETER TRANSMISSION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 54 | An error occurred during the parameter/file transfer to the 5th servo board. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (4) of the corresponding node number (SV#5) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 55 | An error occurred during the parameter/file transfer to the 6th servo board. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (5) of the corresponding node number (SV#6) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 56 | An error occurred during the parameter/file transfer to the 7th servo board. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (6) of the corresponding node number (SV#7) |

**0400: PARAMETER TRANSMISSION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 57 | An error occurred during the parameter/file transfer to the 8th servo board. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (7) of the corresponding node number (SV#8) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0410: MODE CHANGE ERROR

The YRC1000 changes its operation modes during a startup process from the power-on operation until the startup process completion. Since mode change is required for the peripheral CPU boards as well as the main CPU board, the YRC1000 simultaneously performs a process as the mode change process. This alarm occurs if the mode change is not successfully performed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 30 | An error occurred during startup sequence processing with the ASF01 board #1, and the system did not startup normally. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board rotary switch setting (0) of the corresponding node number<br>• The SDCA01 board rotary switch setting (0) of the corresponding node number (SV#1) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 31 | An error occurred during startup sequence processing with the ASF01 board #2, and the system did not startup normally. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board rotary switch setting (1) of the corresponding node number<br>• The SDCA01 board rotary switch setting (1) of the corresponding node number (SV#2) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**0410: MODE CHANGE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32 | An error occurred during startup sequence processing with the ASF01 board #3, and the system did not startup normally. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board rotary switch setting (2) of the corresponding node number<br>• The SDCA01 board rotary switch setting (2) of the corresponding node number (SV#3) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 33 | An error occurred during startup sequence processing with the ASF01 board #4, and the system did not startup normally. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board rotary switch setting (3) of the corresponding node number<br>• The SDCA01 board rotary switch setting (3) of the corresponding node number (SV#4) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |

**0410: MODE CHANGE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 34 | An error occurred during startup sequence processing with the ASF01 board #5, and the system did not startup normally. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board rotary switch setting (4) of the corresponding node number<br>• The SDCA01 board rotary switch setting (4) of the corresponding node number (SV#5) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 35 | An error occurred during startup sequence processing with the ASF01 board #6, and the system did not startup normally. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board rotary switch setting (5) of the corresponding node number<br>• The SDCA01 board rotary switch setting (5) of the corresponding node number (SV#6) |

**0410: MODE CHANGE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 36 | An error occurred during startup sequence processing with the ASF01 board #7, and the system did not startup normally. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board rotary switch setting (6) of the corresponding node number<br>• The SDCA01 board rotary switch setting (6) of the corresponding node number (SV#7) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0410: MODE CHANGE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 37 | An error occurred during startup sequence processing with the ASF01 board #8, and the system did not startup normally. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The ASF01 board rotary switch setting (7) of the corresponding node number<br>• The SDCA01 board rotary switch setting (7) of the corresponding node number (SV#8) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 50 | An error occurred during startup sequence processing with the servo CPU of 1st servo board, and the system did not startup normally. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (0) of the corresponding node number (SV#1) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0410: MODE CHANGE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 51 | An error occurred during startup sequence processing with the servo CPU of 2nd servo board, and the system did not startup normally. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (1) of the corresponding node number (SV#2) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 52 | An error occurred during startup sequence processing with the servo CPU of 3rd servo board, and the system did not startup normally. | Setting error | 1. Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (2) of the corresponding node number (SV#3) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 53 | An error occurred during startup sequence processing with the servo CPU of 4th servo board, and the system did not startup normally. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (3) of the corresponding node number (SV#4) |

**0410: MODE CHANGE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 54 | An error occurred during startup sequence processing with the servo CPU of 5th servo board, and the system did not startup normally. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (4) of the corresponding node number (SV#5) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 55 | An error occurred during startup sequence processing with the servo CPU of 6th servo board, and the system did not startup normally. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (5) of the corresponding node number (SV#6) |

**0410: MODE CHANGE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 56 | An error occurred during startup sequence processing with the servo CPU of 7th servo board, and the system did not startup normally. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (6) of the corresponding node number (SV#7) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 57 | An error occurred during startup sequence processing with the servo CPU of 8th servo board, and the system did not startup normally. | Setting error | Check the following settings.<br>• Control group settings in maintenance mode<br>• The SDCA01 board rotary switch setting (7) of the corresponding node number (SV#8) |

**0410: MODE CHANGE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0500: SEGMENT PROC NOT READY

To properly operate the manipulator, it is required to complete the processing of operation instructions within the specified time. This alarm occurs if the processing of operation instructions is not completed within the specified time.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the following settings.<br>• Instruction execution cycle |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0510: SOFTWARE VERSION UNMATCH

The combination of the ACP01 board program and the SDCA01/Option board program is incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 20 | 1st option board's interface version is not corresponding to ACP01. | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | 2nd option board's interface version is not corresponding to ACP01. | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | ASF01 board connected to the 1st servo board's software version is not corresponding to ACP01. | Software error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the ASF01 board version and then consult your YASKAWA representative. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 31 | ASF01 board connected to the 2nd servo board's software version is not corresponding to ACP01. | Software error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the ASF01 board version and then consult your YASKAWA representative. |

**0510: SOFTWARE VERSION UNMATCH (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32 | ASF01 board connected to the 3rd servo board's software version is not corresponding to ACP01. | Software error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the ASF01 board version and then consult your YASKAWA representative. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 33 | ASF01 board connected to the 4th servo board's software version is not corresponding to ACP01. | Software error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the ASF01 board version and then consult your YASKAWA representative. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0510: SOFTWARE VERSION UNMATCH (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 34 | ASF01 board connected to the 5th servo board's software version is not corresponding to ACP01. | Software error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the ASF01 board version and then consult your YASKAWA representative. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 35 | ASF01 board connected to the 6th servo board's software version is not corresponding to ACP01. | Software error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the ASF01 board version and then consult your YASKAWA representative. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 36 | ASF01 board connected to the 7th servo board's software version is not corresponding to ACP01. | Software error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the ASF01 board version and then consult your YASKAWA representative. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0510: SOFTWARE VERSION UNMATCH (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 37 | ASF01 board connected to the 8th servo board's software version is not corresponding to ACP01. | Software error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the ASF01 board version and then consult your YASKAWA representative. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 50 | 1st servo board's interface version is not corresponding to ACP01. | Software error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the SDCA01 board version and then consult your YASKAWA representative. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 51 | 2nd servo board's interface version is not corresponding to ACP01. | Software error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the SDCA01 board version and then consult your YASKAWA representative. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0510: SOFTWARE VERSION UNMATCH (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 52 | 3rd servo board's interface version is not corresponding to ACP01. | Software error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the SDCA01 board version and then consult your YASKAWA representative. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 53 | 4th servo board's interface version is not corresponding to ACP01. | Software error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the SDCA01 board version and then consult your YASKAWA representative. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 54 | 5th servo board's interface version is not corresponding to ACP01. | Software error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the SDCA01 board version and then consult your YASKAWA representative. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0510: SOFTWARE VERSION UNMATCH (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 55 | 6th servo board's interface version is not corresponding to ACP01. | Software error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the SDCA01 board version and then consult your YASKAWA representative. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 56 | 7th servo board's interface version is not corresponding to ACP01. | Software error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the SDCA01 board version and then consult your YASKAWA representative. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 57 | 8th servo board's interface version is not corresponding to ACP01. | Software error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the SDCA01 board version and then consult your YASKAWA representative. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0510: SOFTWARE VERSION UNMATCH (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0520: AXIS LIMIT OVER

The number of axes exceeds the permissible value.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | | Setting error | Check the following settings.<br>• Control group settings in maintenance mode |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0600: MEDAR STATUS ERROR

An error occurred at the MADER timer.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | MADER timer error | Refer to the instruction manual for the MEDAR function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0601: MEDAR DIAGNOSIS ERROR

An error occurred at the MADER timer.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | MADER timer error | Refer to the instruction manual for the MEDAR function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0602: MEDAR VERSION ERROR

An error occurred at the MADER timer.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | MADER timer error | Refer to the instruction manual for the MEDAR function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0603: MEDAR REVISION ERROR

An error occurred at the MADER timer.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | MADER timer error | Refer to the instruction manual for the MEDAR function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0604: MEDAR MODE CHANGE ERROR

An error occurred at the MADER timer.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | MADER timer error | Refer to the instruction manual for the MEDAR function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0605: MEDAR SCHEDULE TRANSMIT ERROR

An error occurred at the MADER timer.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | MADER timer error | Refer to the instruction manual for the MEDAR function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0606: MEDAR ERROR 1

An error occurred at the MADER timer.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | MADER timer error | Refer to the instruction manual for the MEDAR function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0607: MEDAR ERROR 2

An error occurred at the MADER timer.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | MADER timer error | Refer to the instruction manual for the MEDAR function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0608: MEDAR WELDER TYPE MISMATCH

An error occurred at the MADER timer.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | MADER timer error | Refer to the instruction manual for the MEDAR function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0609: MEDAR PARAMETER ERROR

An error occurred at the MADER timer.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | MADER timer error | Refer to the instruction manual for the MEDAR function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0610: MEDAR STEPPER TRANSMIT ERROR

An error occurred at the MADER timer.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | MADER timer error | Refer to the instruction manual for the MEDAR function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0700: VERIFY ERROR(EX IO ALLOC FILE)

The YRC1000 verifies that the EX IO file are correctly set during a startup process. This alarm occurs if the YRC1000 detects an error in the verification process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD Card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0710: LADDER INITIALIZE ERROR

The ladder program could not be initialized successfully.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0720: LADDER PROGRAM ERROR

This alarm occurs if the relay number of ladder program specification is wrong.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was found in the relay No. specification. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An error was found in the register No. specification. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | An incorrect instruction was set. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0720: LADDER PROGRAM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Output register is used redundantly. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Output relay is used redundantly. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Unconnected relay exists. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |

**0720: LADDER PROGRAM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The STR instructions are overused. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The AND-STR instructions are overused. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

### 0720: LADDER PROGRAM ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 9 | A syntax error was found in the CNT instruction. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | The head of the block starts with an instruction other than the STR instruction. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | Excessive machine codes | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0720: LADDER PROGRAM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | The last instruction is not the END instruction. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | An error was found in the PART instruction. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | An error was found in the GOUT instruction. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0720: LADDER PROGRAM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | The No. of operand is incorrect. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | The constant value is incorrect. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | The step capacity exceeds the memory capacity. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |

**0720: LADDER PROGRAM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | The number of operation instructions exceed the permissible value. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | A syntax error was found in the CNT instruction or TMR instruction. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0720: LADDER PROGRAM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 20 | A syntax error was found in the JMP-LABEL instructions. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | The label of JMP destination does not exist. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0730: COMMUNICATION ERROR (SKS-SERIAL)

An error occurred when performing serial communication with SKS welder.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | Welder power serial I/F task cannot be created. | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

### 0730: COMMUNICATION ERROR (SKS-SERIAL) (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Incorrect values are set for the communication frame number with the welder power. | Setting error | Check the following setting.<br>• The number of communication frames for Welder power serial communication (RS262) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Incorrect values are set for the number of the sending bytes per frame with the welder power. | Setting error | Check the following setting.<br>• The number of the sending bytes for Welder power serial communication (RS260) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Incorrect values are set for the number of the receiving bytes per frame with the welder power. | Setting error | Check the following setting.<br>• The number of the receiving bytes for Welder power serial communication (RS261) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | The binary semaphore to start up event for Welder power serial I/F task cannot be created. | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | The event resource for Welder power serial I/F task cannot be created. | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0730: COMMUNICATION ERROR (SKS-SERIAL) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | The completion notification mail of Welder power serial I/F task cannot be created. | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | Welder power serial I/F task cannot be created. | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0770: SAFETY FIELDBUS SET ERR(ACP01)

Setting of the Safety Fieldbus function is incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Safety slave and standard master are used simultaneously in one channel of the DeviceNet board. | Setting error | Check the following settings.<br>• Select [SYSTEM] - [SETUP] - [OPTION BOARD] settings in maintenance mode. Display the slot(channel) that is configured with DeviceNet Safety, set to slave mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Board that can not be used with DeviceNet Safety is set. | Setting error | Check the following settings.<br>• Insert the SST-DN4-PCIE board to the slot to be used in the DeviceNet Safety. Select [SYSTEM] - [SETUP] - [OPTION BOARD] settings in maintenance mode, set the DeviceNet Safety. |
| | | SST-DN4-PCU board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SST-DN4-PCIE board. Save the CMOS.BIN before replace the board to be safe. Replace the SST-DN4-PCIE board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0771: SAFETY FIELDBUS SYS ERR(ACP01)

An error occurred in the Safety Fieldbus function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 10000 | The error was detected by the safety fieldbus process (ACP01). Subcode shows the error part of software. | SST-DN4-PCU board failure | In the case of DeviceNet Safety, please check the following.<br>1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SST-DN4-PCIE board. Save the CMOS.BIN before replace the board to be safe. Replace the SST-DN4-PCIE board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0772: DeviceNet Safety RESET REQUEST

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Safety reset request was received from the safety PLC in communication. | Operation failure | Turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0790: MEMORY BATTERY WEAK

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The AIF01 battery is exhausted. | Connection failure | Check if the battery is correctly connected to CN110/BAT on the AIF01 board. |
| | | Battery failure | Refer to Chapter 5.1.1.1 Replacing the Battery in YRC1000 Maintenance manual (RE-CHO-A108) and replace the battery. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0800: FILE BACKUP ERROR (ACP01 SD)

The YRC1000 saves a part of data needed for system operations on the SD Card in the ACP01 board.
When the data is changed, the new data is written on the SD Card.
This alarm occurs if this data writing cannot be done correctly.
Since this alarm occurs due to SD Card access failure, it is not recorded in the alarm history.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The management area (FAT) of SD Card in ACP01 board is damaged. | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0801: FILE LOAD ERROR (ACP01 SD)

The YRC1000 saves a part of data needed for system operations on the SD Card in the ACP01 board.
The data is read out when the controller power is turned ON.
This alarm occurs if this data reading cannot be done correctly.
Since this alarm occurs due to SD Card access failure, it is not recorded in the alarm history.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3000 | PANELBOX.LOG file broken | DATA failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, select the following menu.<br>• [SYSTEM]-[DATA REBUILD] |
| | | SD card failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SD card. Save the CMOS.BIN before replace the board to be safe. Replace the SD card , and then load the CMOS.BIN saved before alarm occurred. |

**0801: FILE LOAD ERROR (ACP01 SD) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3435 | MAINTE.LOG file broken | DATA failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, select the following menu.<br>• [SYSTEM]-[DATA REBUILD] |
| | | SD card failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SD card. Save the CMOS.BIN before replace the board to be safe. Replace the SD card , and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0802: FILE I/O ERROR (ACP01 SD)

The YRC1000 saves a part of data needed for system operations on the SD Card in the ACP01 board. This alarm occurs if it cannot access to the ACP01correctly.
Usually, this alarm occurs accAL-0800 and AL-0801 occurs simultaneously.
Since this alarm occurs due to SD Card access failure, it is not recorded in the alarm history.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0803: FILE ERROR

The YRC1000 software controls the detailed data of robot or motor at the extra file called [MECHA.ROM]. This alarm occurs if this file cannot be read correctly.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error occurred during the parameter of Manipulator Model (mecha.rom) loading. | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0810: TOYOPUC ALLOC DEF ERROR

The TOYOPUC board cannot be identified.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was found in the input/ output direction data of allocation configuration. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | In the output side setting of allocation configuration data, the specified R-register start No. for the TOYOPUC exceeds the R-register limit. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | In the output side setting of allocation configuration data, the set number to use the input side R-register of the TOYOPUC exceeds the R-register limit. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |

### 0810: TOYOPUC ALLOC DEF ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | In the output side setting of allocation configuration data, the set number to use the M-register of concurrent I/O exceeds the M-register limit. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | An error was found in the type set for output direction of allocation configuration data. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | An error was found in the type set for input direction of allocation configuration data. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | An error was found in the type specified for system data of allocation configuration data. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0810: TOYOPUC ALLOC DEF ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 12 | An error was found in the specified number of registers which are used by the system data "CURR.POS. (PULSE)" of allocation configuration. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | An error was found in the specified number of registers which are used by the system data "CURR.POS. (XYZ)" of allocation configuration. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | An error was found in the specified number of registers which are used by the system data "WELDING INFO." of allocation configuration. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | An error was found in the specified number of registers which are used by the system data "TASK INFO." of allocation configuration. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

### 0810: TOYOPUC ALLOC DEF ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 20 | An error was found in the specified number of registers which are used by the system data "EXECUTE PROGRAM INFO." of allocation configuration. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | An error was found in the specified number of registers which are used by the system data "INST. MESSAGE" of allocation configuration. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 23 | An error was found in the specified number of registers for "Alarm/Error/Message" in the system data of Allocation setting information. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | In the input side setting of allocation configuration data, the specified R-register start No. for the TOYOPUC exceeds the R-register limit. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

### 0810: TOYOPUC ALLOC DEF ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 31 | In the input side setting of allocation configuration data, the set number to use the input side R-register of the TOYOPUC exceeds the R-register limit. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32 | In the input side setting of allocation configuration data, the set number to use the M-register of concurrent I/O exceeds the M-register limit. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 34 | An error was found in the specified number of registers which are used by the system data "standard time setting data" of allocation configuration. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 41 | In the output side setting of allocation configuration data, some of the TOYOPUC's R-registers are specified redundantly. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 42 | In the output side setting of allocation configuration data, some of the M-registers of concurrent I/O are specified redundantly. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |

**0810: TOYOPUC ALLOC DEF ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 44 | In the input side setting of allocation configuration data, some of the TOYOPUC's R-registers are specified redundantly. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 45 | In the input side setting of allocation configuration data, some of the M-registers of concurrent I/O are specified redundantly. | Setting error | Check the following settings.<br>• Allocation configuration for the TOYOPUC |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the TOYOPUC board |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0831: FORCE SENSOR COMMUNICATION ERROR

Communication error of the force sensor board happen.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code:<br>1000<br>+channel*100<br>+factor:<br>0 send complete error<br>1 receive time out<br>2 receive break letter<br>3 framing error<br>4 parity error<br>5 over run error<br>6 receive length error<br>7 no STX control letter<br>8 no ETB control letter<br>9 BCC error<br>10 sequence number error<br>11 sensor detection error | Hardware failure | 1. After checking the following two tems,turn the power OFF then back ON.<br>• the connection status<br>• the sensor type<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure) |
| | | Fuse failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check if the fuse (-F71) attached to the cable of CPS01 unit - CN156 is not broken.<br>3. If the fuse is broken, confirm that there is no cable failure (such as broken line, short circuit, ground fault) in the cable connected between CPS01 unit and sensor, and then replace the fuse. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again,Check the connection/insertion status of the following connector and also check if there is no failure (such as broken line, short circuit, ground fault) in the cable connected to the following connector.<br>• communication board-CN1<br>• connector -X75, -X76<br>• CPS01 unit -CN156<br>3. If there is no failure in the sensor cable above, check if there is no failure (such as short circuit, ground fault) on the 24V line of the I/O cable of the following connectors.<br>• AIO board -CN306,CN307,CN308,CN309 |
| | | communication board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the communication board. |

## ◆ 0900: WATCHDOG TIMER ERROR(AIF01 board)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the AIF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the AIF01 board. | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0901: WATCHDOG TIMER ERROR(ACP02#1)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ACP02#1 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the ACP02 #1 board. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0902: WATCHDOG TIMER ERROR(ACP02#2)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ACP02#2 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the ACP02 #2 board. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0903: WATCHDOG TIMER ERROR(ACP02#3)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ACP02#3 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the ACP02 #3 board. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0904: WATCHDOG TIMER ERROR(ACP02#4)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ACP02#4 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the ACP02 #4 board. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0905: WATCHDOG TIMER ERROR(ACP02#5)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ACP02#5 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the ACP02 #5 board. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0906: WATCHDOG TIMER ERROR(ACP02#6)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ACP02#6 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the ACP02 #6 board. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0907: WATCHDOG TIMER ERROR(ACP02#7)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ACP02#7 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the ACP02 #7 board. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0908: WATCHDOG TIMER ERROR(ACP02#8)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ACP02#8 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the ACP02 #8 board. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0910: CPU ERROR(ACP01)

An unexpected error was detected in ACP01 (main CPU board).

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU.<br>0-255:error code detected by ACP01<br>1000-: internal error of software | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Software operation error occurred | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0911: CPU ERROR(ACP02#1)

An error was detected in the CPU of the optional ACP02 #1.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0912: CPU ERROR(ACP02#2)

An error was detected in the CPU of the optional ACP02 #2.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0913: CPU ERROR(ACP02#3)

An error was detected in the CPU of the optional ACP02 #3.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |

**0913: CPU ERROR(ACP02#3) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0914: CPU ERROR(ACP02#4)

An error was detected in the CPU of the optional ACP02 #4.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0915: CPU ERROR(ACP02#5)

An error was detected in the CPU of the optional ACP02 #5.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0916: CPU ERROR(ACP02#6)

An error was detected in the CPU of the optional ACP02 #6.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0917: CPU ERROR(ACP02#7)

An error was detected in the CPU of the optional ACP02 #7.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0918: CPU ERROR(ACP02#8)

An error was detected in the CPU of the optional ACP02 #8.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |

**0918: CPU ERROR(ACP02#8) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0920: WATCHDOG TIMER ERROR(MSF#1)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ASF01#1 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | A Watchdog timeout was detected in the ASF01#1 board (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | A Watchdog timeout was detected in the ASF01#1 board (CPU2). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0920: WATCHDOG TIMER ERROR(MSF#1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0921: WATCHDOG TIMER ERROR(MSF#2)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ASF01#2 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | A Watchdog timeout was detected in the ASF01#2 board (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | A Watchdog timeout was detected in the ASF01#2 board (CPU2). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0921: WATCHDOG TIMER ERROR(MSF#2) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0922: WATCHDOG TIMER ERROR(MSF#3)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ASF01#3 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | A Watchdog timeout was detected in the ASF01#3 board (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | A Watchdog timeout was detected in the ASF01#3 board (CPU2). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0922: WATCHDOG TIMER ERROR(MSF#3) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0923: WATCHDOG TIMER ERROR(MSF#4)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ASF01#4 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | A Watchdog timeout was detected in the ASF01#4 board (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | A Watchdog timeout was detected in the ASF01#4 board (CPU2). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0923: WATCHDOG TIMER ERROR(MSF#4) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0924: WATCHDOG TIMER ERROR(MSF#5)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ASF01#5 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | A Watchdog timeout was detected in the ASF01#5 board (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | A Watchdog timeout was detected in the ASF01#5 board (CPU2). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0924: WATCHDOG TIMER ERROR(MSF#5) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0925: WATCHDOG TIMER ERROR(MSF#6)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ASF01#6 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | A Watchdog timeout was detected in the ASF01#6 board (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | A Watchdog timeout was detected in the ASF01#6 board (CPU2). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0925: WATCHDOG TIMER ERROR(MSF#6) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0926: WATCHDOG TIMER ERROR(MSF#7)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ASF01#7 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | A Watchdog timeout was detected in the ASF01#7 board (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | A Watchdog timeout was detected in the ASF01#7 board (CPU2). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0926: WATCHDOG TIMER ERROR(MSF#7) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0927: WATCHDOG TIMER ERROR(MSF#8)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ASF01#8 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | A Watchdog timeout was detected in the ASF01#8 board (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | A Watchdog timeout was detected in the ASF01#8 board (CPU2). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0927: WATCHDOG TIMER ERROR(MSF#8) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0931: CPU HANG UP ERROR(ACP02#1)

An error was detected in the CPU of the optional ACP02 #1.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0932: CPU HANG UP ERROR(ACP02#2)

An error was detected in the CPU of the optional ACP02 #2.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |

**0932: CPU HANG UP ERROR(ACP02#2) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0933: CPU HANG UP ERROR(ACP02#3)

An error was detected in the CPU of the optional ACP02 #3.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0934: CPU HANG UP ERROR(ACP02#4)

An error was detected in the CPU of the optional ACP02 #4.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |

**0934: CPU HANG UP ERROR(ACP02#4) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0935: CPU HANG UP ERROR(ACP02#5)

An error was detected in the CPU of the optional ACP02 #5.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0936: CPU HANG UP ERROR(ACP02#6)

An error was detected in the CPU of the optional ACP02 #6.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |

**0936: CPU HANG UP ERROR(ACP02#6) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0937: CPU HANG UP ERROR(ACP02#7)

An error was detected in the CPU of the optional ACP02 #7.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0938: CPU HANG UP ERROR(ACP02#8)

An error was detected in the CPU of the optional ACP02 #8.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |

**0938: CPU HANG UP ERROR(ACP02#8) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0939: CPU HANG UP ERROR(MP-PRESS)

A CPU error on the MP-PRESS board (MC2110) has been detected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU. | Setting error | Check the following settings.<br>• Optional board in maintenance mode |
| | | MC2110 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• MC2110 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0940: WATCHDOG TIMER ERROR(SV#1)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the SDCA01#1 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the SDCA01#1 board. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0941: WATCHDOG TIMER ERROR(SV#2)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the SDCA01#2 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the SDCA01#2 board. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0942: WATCHDOG TIMER ERROR(SV#3)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the SDCA01#3 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the SDCA01#3 board. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0943: WATCHDOG TIMER ERROR(SV#4)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the SDCA01#4 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the SDCA01#4 board. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0944: WATCHDOG TIMER ERROR(SV#5)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the SDCA01#5 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the SDCA01#5 board. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0945: WATCHDOG TIMER ERROR(SV#6)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the SDCA01#6 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the SDCA01#6 board. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0946: WATCHDOG TIMER ERROR(SV#7)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the SDCA01#7 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the SDCA01#7 board. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0947: WATCHDOG TIMER ERROR(SV#8)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the SDCA01#8 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | A Watchdog timeout was detected in the SDCA01#8 board. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0950: CPU ERROR(SV#1)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in SDCA01 #1.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU of servo board #1. | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The cable of SDCA01 board CN509<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0951: CPU ERROR(SV#2)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in SDCA01 #2.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU of servo board #2. | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The cable of SDCA01 board CN509<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0951: CPU ERROR(SV#2) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0952: CPU ERROR(SV#3)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in SDCA01 #3.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU of servo board #3. | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The cable of SDCA01 board CN509<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0953: CPU ERROR(SV#4)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in SDCA01 #4.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU of servo board #4. | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The cable of SDCA01 board CN509<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0954: CPU ERROR(SV#5)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in SDCA01 #5.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU of servo board #5. | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The cable of SDCA01 board CN509<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0954: CPU ERROR(SV#5) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0955: CPU ERROR(SV#6)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in SDCA01 #6.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU of servo board #6. | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The cable of SDCA01 board CN509<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0956: CPU ERROR(SV#7)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in SDCA01 #7.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU of servo board #7. | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The cable of SDCA01 board CN509<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0957: CPU ERROR(SV#8)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in SDCA01 #8.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error was detected in the CPU of servo board #8. | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The cable of SDCA01 board CN509<br>• The cable of SDCA01 board connector CN515/516<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0957: CPU ERROR(SV#8) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0960: CPU ERROR(MSF#1)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in ASF01 #1.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error was detected in the CPU of ASF01 board #1 (CPU1). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0960: CPU ERROR(MSF#1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was detected in the CPU of ASF01 board #1 (CPU2). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0961: CPU ERROR(MSF#2)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in ASF01 #2.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error was detected in the CPU of ASF01 board #2 (CPU1). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**0961: CPU ERROR(MSF#2) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | An error was detected in the CPU of ASF01 board #2 (CPU2). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0962: CPU ERROR(MSF#3)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in ASF01 #3.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error was detected in the CPU of ASF01 board #3 (CPU1). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | An error was detected in the CPU of ASF01 board #3 (CPU2). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |

**0962: CPU ERROR(MSF#3) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0963: CPU ERROR(MSF#4)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in ASF01 #4.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error was detected in the CPU of ASF01 board #4 (CPU1). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |

**0963: CPU ERROR(MSF#4) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | An error was detected in the CPU of ASF01 board #4 (CPU2). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0964: CPU ERROR(MSF#5)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in ASF01 #5.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error was detected in the CPU of ASF01 board #5 (CPU1). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | An error was detected in the CPU of ASF01 board #5 (CPU2). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |

**0964: CPU ERROR(MSF#5) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0965: CPU ERROR(MSF#6)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in ASF01 #6.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error was detected in the CPU of ASF01 board #6 (CPU1). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |

**0965: CPU ERROR(MSF#6) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | An error was detected in the CPU of ASF01 board #6 (CPU2). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0966: CPU ERROR(MSF#7)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in ASF01 #7.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error was detected in the CPU of ASF01 board #7 (CPU1). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | An error was detected in the CPU of ASF01 board #7 (CPU2). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |

**0966: CPU ERROR(MSF#7) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0967: CPU ERROR(MSF#8)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in ASF01 #8.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error was detected in the CPU of ASF01 board #8 (CPU1). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |

**0967: CPU ERROR(MSF#8) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | An error was detected in the CPU of ASF01 board #8 (CPU2). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then remove the SD card from the failure AIF01 board to insert it into the new AIF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0970: CPU ERROR(FSF01#1)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in ASF01#1 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error was detected in the CPU of ASF01 board #1 (CPU1). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | An error was detected in the CPU of ASF01 board #1 (CPU2). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |

**0970: CPU ERROR(FSF01#1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0971: CPU ERROR(FSF01#2)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in ASF01#2 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error was detected in the CPU of ASF01 board #2 (CPU1). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0971: CPU ERROR(FSF01#2) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was detected in the CPU of ASF01 board #2 (CPU2). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0972: CPU ERROR(FSF01#3)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in ASF01#3 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error was detected in the CPU of ASF01 board #3 (CPU1). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**0972: CPU ERROR(FSF01#3) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | An error was detected in the CPU of ASF01 board #3 (CPU2). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0973: CPU ERROR(FSF01#4)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in ASF01#4 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error was detected in the CPU of ASF01 board #4 (CPU1). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | An error was detected in the CPU of ASF01 board #4 (CPU2). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |

**0973: CPU ERROR(FSF01#4) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0974: CPU ERROR(FSF01#5)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in ASF01#5 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error was detected in the CPU of ASF01 board #5 (CPU1). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0974: CPU ERROR(FSF01#5) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was detected in the CPU of ASF01 board #5 (CPU2). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0975: CPU ERROR(FSF01#6)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in ASF01#6 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error was detected in the CPU of ASF01 board #6 (CPU1). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**0975: CPU ERROR(FSF01#6) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | An error was detected in the CPU of ASF01 board #6 (CPU2). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0976: CPU ERROR(FSF01#7)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in ASF01#7 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error was detected in the CPU of ASF01 board #7 (CPU1). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | An error was detected in the CPU of ASF01 board #7 (CPU2). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |

**0976: CPU ERROR(FSF01#7) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0977: CPU ERROR(FSF01#8)

The YRC1000 can safely stop the system even when an unexpected processing occurs on each board. This alarm occurs if an unexpected error occurs in ASF01#8 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error was detected in the CPU of ASF01 board #8 (CPU1). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0977: CPU ERROR(FSF01#8) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was detected in the CPU of ASF01 board #8 (CPU2). | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBXconnector of SDCA01 board and ASF01 board<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0980: WATCHDOG TIMER ERROR(FSF01#1)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ASF01#1 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | A Watchdog timeout was detected in the Safety board #1 (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0980: WATCHDOG TIMER ERROR(FSF01#1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | A Watchdog timeout was detected in the Safety board #1 (CPU2). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0981: WATCHDOG TIMER ERROR(FSF01#2)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ASF01#2 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | A Watchdog timeout was detected in the Safety board #2 (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0981: WATCHDOG TIMER ERROR(FSF01#2) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | A Watchdog timeout was detected in the Safety board #2 (CPU2). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0982: WATCHDOG TIMER ERROR(FSF01#3)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ASF01#3 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | A Watchdog timeout was detected in the Safety board #3 (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0982: WATCHDOG TIMER ERROR(FSF01#3) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | A Watchdog timeout was detected in the Safety board #3 (CPU2). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0983: WATCHDOG TIMER ERROR(FSF01#4)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ASF01#4 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | A Watchdog timeout was detected in the Safety board #4 (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0983: WATCHDOG TIMER ERROR(FSF01#4) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | A Watchdog timeout was detected in the Safety board #4 (CPU2). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0984: WATCHDOG TIMER ERROR(FSF01#5)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ASF01#5 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | A Watchdog timeout was detected in the Safety board #5 (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0984: WATCHDOG TIMER ERROR(FSF01#5) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | A Watchdog timeout was detected in the Safety board #5 (CPU2). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0985: WATCHDOG TIMER ERROR(FSF01#6)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ASF01#6 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | A Watchdog timeout was detected in the Safety board #6 (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0985: WATCHDOG TIMER ERROR(FSF01#6) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | A Watchdog timeout was detected in the Safety board #6 (CPU2). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0986: WATCHDOG TIMER ERROR(FSF01#7)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ASF01#7 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | A Watchdog timeout was detected in the Safety board #7 (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0986: WATCHDOG TIMER ERROR(FSF01#7) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | A Watchdog timeout was detected in the Safety board #7 (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0987: WATCHDOG TIMER ERROR(FSF01#8)

The YRC1000 can safely stop the system with a watchdog function when an error occurred. This alarm occurs if a watchdog timeout is detected in the ASF01#8 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | A Watchdog timeout was detected in the Safety board #8 (CPU1). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0987: WATCHDOG TIMER ERROR(FSF01#8) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | A Watchdog timeout was detected in the Safety board #8 (CPU2). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0990: SYSTEM ERROR(ACP01)

This alarm occurs if an unexpected error occurs in AIF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | ACP01board detect the Controller power off signal (Power lost signal) of AIF01 board when the control power turned ON. This alarm may occur, when the control power turned OFF before an online screen is displayed by a programming pendant. | Execute condition failure | Turn the power OFF after the online window appears on the programming pendant. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0990: SYSTEM ERROR(ACP01) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | ACP01board detect the WATCHDOG TIMER ERROR of AIF01 board when the control power turned ON. | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | ACP01board detect the Servo IF Initialize error of AIF01 board when the control power turned ON. | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |

**0990: SYSTEM ERROR(ACP01) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | ACP01board detect the IO IF Initialize error of AIF01 board when the control power turned ON. | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Processing time error of the IO processing | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Processing time error of the SV communication. | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**0990: SYSTEM ERROR(ACP01) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | It was detected that AC power supply became less than the specified voltage. | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The cable of CPS01 unit connector CN158/159<br>• The CN5 connector of the ABB01 back board.<br>• Cable replace between the CPS01 unit and the ABB01 back board. |
| | | APU unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU unit. Save the CMOS.BIN before replace the unit to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0991: SYSTEM ERROR(ACP02#1)

An error was detected in the CPU of the optional ACP02 #1.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was detected in the CPU of the optional ACP02 #1. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0991: SYSTEM ERROR(ACP02#1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0992: SYSTEM ERROR(ACP02#2)

An error was detected in the CPU of the optional ACP02 #2.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was detected in the CPU of the optional ACP02 #2. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0993: SYSTEM ERROR(ACP02#3)

An error was detected in the CPU of the optional ACP02 #3.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was detected in the CPU of the optional ACP02 #3. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0993: SYSTEM ERROR(ACP02#3) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0994: SYSTEM ERROR(ACP02#4)

An error was detected in the CPU of the optional ACP02 #4.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was detected in the CPU of the optional ACP02 #4. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0995: SYSTEM ERROR(ACP02#5)

An error was detected in the CPU of the optional ACP02 #5.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was detected in the CPU of the optional ACP02 #5. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0995: SYSTEM ERROR(ACP02#5) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0996: SYSTEM ERROR(ACP02#6)

An error was detected in the CPU of the optional ACP02 #6.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was detected in the CPU of the optional ACP02 #6. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0997: SYSTEM ERROR(ACP02#7)

An error was detected in the CPU of the optional ACP02 #7.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was detected in the CPU of the optional ACP02 #7. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

**0997: SYSTEM ERROR(ACP02#7) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0998: SYSTEM ERROR(ACP02#8)

An error was detected in the CPU of the optional ACP02 #8.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was detected in the CPU of the optional ACP02 #8. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 0999: PCI-e COMMUNICATION ERROR

An error was detected in the PCI-e Communication

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 20 | An error was detected in the PCI-e Communication of the optional ACP02 board #1. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**0999: PCI-e COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 21 | An error was detected in the PCI-e Communication of the optional ACP02 board #2. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | An error was detected in the PCI-e Communication of the optional ACP02 board #3. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 23 | An error was detected in the PCI-e Communication of the optional ACP02 board #4. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 24 | An error was detected in the PCI-e Communication of the optional ACP02 board #5. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 25 | An error was detected in the PCI-e Communication of the optional ACP02 board #6. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |

**0999: PCI-e COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 26 | An error was detected in the PCI-e Communication of the optional ACP02 board #7. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 27 | An error was detected in the PCI-e Communication of the optional ACP02 board #8. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• ACP02 board |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | An error was detected in the PCI-e Communication of ASF01 board #1. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board #1<br>• CN509 cable of SDCA01 board #1<br>• The cable of SDCA01 board #1 connector CN515<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN155 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 31 | An error was detected in the PCI-e Communication of ASF01 board #2. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**0999: PCI-e COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board #2<br>• CN509 cable of SDCA01 board #2<br>• The cable of SDCA01 board #2 connector CN515<br>• The cable of SDCA01 board #1 connector CN516<br>• The cable of CPS unit connector CN155 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32 | An error was detected in the PCI-e Communication of ASF01 board #3. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board #3<br>• CN509 cable of SDCA01 board #3<br>• The cable of SDCA01 board #3 connector CN515<br>• The cable of SDCA01 board #2 connector CN516<br>• The cable of CPS unit connector CN155 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 33 | An error was detected in the PCI-e Communication of ASF01 board #4. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board #4<br>• CN509 cable of SDCA01 board #4<br>• The cable of SDCA01 board #4 connector CN515<br>• The cable of SDCA01 board #3 connector CN516<br>• The cable of CPS unit connector CN155 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 34 | An error was detected in the PCI-e Communication of ASF01 board #5. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**0999: PCI-e COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board #5<br>• CN509 cable of SDCA01 board #5<br>• The cable of SDCA01 board #5 connector CN515<br>• The cable of SDCA01 board #4 connector CN516<br>• The cable of CPS unit connector CN155 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 35 | An error was detected in the PCI-e Communication of ASF01 board #6. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board #6<br>• CN509 cable of SDCA01 board #6<br>• The cable of SDCA01 board #6 connector CN515<br>• The cable of SDCA01 board #5 connector CN516<br>• The cable of CPS unit connector CN155 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 36 | An error was detected in the PCI-e Communication of ASF01 board #7. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board #7<br>• CN509 cable of SDCA01 board #7<br>• The cable of SDCA01 board #7 connector CN515<br>• The cable of SDCA01 board #6 connector CN516<br>• The cable of CPS unit connector CN155 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 37 | An error was detected in the PCI-e Communication of ASF01 board #8. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**0999: PCI-e COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN207 cable of ASF01 board #8<br>• CN509 cable of SDCA01 board #8<br>• The cable of SDCA01 board #8 connector CN515<br>• The cable of SDCA01 board #7 connector CN516<br>• The cable of CPS unit connector CN155 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 50 | An error was detected in the PCI-e Communication of SDCA01 board #1. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board #1<br>• The cable of SDCA01 board #1 connector CN515<br>• The cable of AIF01 board connector CN111<br>• The cable of CPS unit connector CN157 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 51 | An error was detected in the PCI-e Communication of SDCA01 board #2. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board #2<br>• The cable of SDCA01 board #2 connector CN515<br>• The cable of SDCA01 board #1 connector CN516<br>• The cable of CPS unit connector CN157 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 52 | An error was detected in the PCI-e Communication of SDCA01 board #3. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board #3<br>• The cable of SDCA01 board #3 connector CN515<br>• The cable of SDCA01 board #2 connector CN516<br>• The cable of CPS unit connector CN157 |

**0999: PCI-e COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 53 | An error was detected in the PCI-e Communication of SDCA01 board #4. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board #4<br>• The cable of SDCA01 board #4 connector CN515<br>• The cable of SDCA01 board #3 connector CN516<br>• The cable of CPS unit connector CN157 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 54 | An error was detected in the PCI-e Communication of SDCA01 board #5. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board #5<br>• The cable of SDCA01 board #5 connector CN515<br>• The cable of SDCA01 board #4 connector CN516<br>• The cable of CPS unit connector CN157 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 55 | An error was detected in the PCI-e Communication of SDCA01 board #6. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board #6<br>• The cable of SDCA01 board #6 connector CN515<br>• The cable of SDCA01 board #5 connector CN516<br>• The cable of CPS unit connector CN157 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 56 | An error was detected in the PCI-e Communication of SDCA01 board #7. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |

**0999: PCI-e COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board #7<br>• The cable of SDCA01 board #7 connector CN515<br>• The cable of SDCA01 board #6 connector CN516<br>• The cable of CPS unit connector CN157 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 57 | An error was detected in the PCI-e Communication of SDCA01 board #8. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board #8<br>• The cable of SDCA01 board #8 connector CN515<br>• The cable of SDCA01 board #7 connector CN516<br>• The cable of CPS unit connector CN157 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

# 1.2 Alarm Number (1000 to 1999)

## ◆ 1000: ROM ERROR(ACP01)

A checksum error occurred in the ROM of ACP01 (main CPU board).

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1001: ROM ERROR(SDCA01)

This alarm is caused by faulty data in ROM of SDCA01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 11 | A checksum error occurred in the board or the EEPROM.(*: axis No.) | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe<br>. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 12 | A checksum error occurred in the board or the EEPROM.(*: axis No.) | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 13 | A checksum error occurred in the board or the EEPROM.(*: axis No.) | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 14 | A checksum error occurred in the board or the EEPROM.(*: axis No.) | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 15 | A checksum error occurred in the board or the EEPROM.(*: axis No.) | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1001: ROM ERROR(SDCA01) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 16 | A checksum error occurred in the board or the EEPROM.(*: axis No.) | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 17 | A checksum error occurred in the board or the EEPROM.(*: axis No.) | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 18 | A checksum error occurred in the board or the EEPROM.(*: axis No.) | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 19 | A checksum error occurred in the board or the EEPROM.(*: axis No.) | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 20 | The SRDY signal did not turn ON after the WRITE ENABLE command was written. (EEPROM WRITE ENABLE error) | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 21 | The SRDY signal did not turn ON after the WRITE PROTECT command was written. (EEPROM WRITE PROTECT error) | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 22 | The SRDY signal did not turn ON after the ERASE command was written. (EEPROM ERASE error) | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 23 | The SRDY signal did not turn ON after the CLEAR command was written. (EEPROM CLEAR error) | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |

**1001: ROM ERROR(SDCA01) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 24 | The SRDY signal did not turn ON after data were written. (EEPROM writing error) | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 25 | The SRDY signal did not turn ON after data were read. (EEPROM reading error) | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 26 | The written data were rejected at verification. (EEPROM verify error) | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1020: MotoPlus (APPLICATION LOAD ERROR)

Failed at loading MotoPlus application.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Number of the Application files on the ACP01 board SD card is over the limit. | Setting error | Delete unnecessary application files "*.out" by MotoPlus menu in the maintenance mode in order not to exceed the file number limitation. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | Insufficient memory space.<br>At the loading time, remaining CPU memory is less than 2MByte (Stipulated memory size for MotoPlus) . | Setting error | Under current system configuration and option function combination, there is not enough memory to run MotoPlus application. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure).<br>It may be necessary to replace the ACP01 board with the one with larger memory. |
| 3 | MotoPlus application folder "/Application"cannot be found. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

### 1020: MotoPlus (APPLICATION LOAD ERROR) (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4 | Memory size (Code area + static variable area) required by MotoPlus Application is over the limit(2Mbyte). | Setting error | 1. Check the static memory definition of the application program.<br>2. Redesign the application program in order not to exceed the memory size limitation. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 5 | Undefined symbols are included in the application. The Symbols are not included in the MotoPlus API library or standard function library. | Setting error | Check that the application program doesn't include any undefined symbols such as function and constant that are not provided by the system. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 6 | Load failure (The application cannot be loaded since the memory (program area + static variable area) that the MotoPlus application requires exceeds the specified value (2MByte) .) | Setting error | 1. Check if the static variables are correctly defined in the MotoPlus application.<br>2. Review the MotoPlus application program so that the memory used for it doesn't exceed the specified value.<br>3. Check if the object files are correctly created by MotoPlusIDE. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 7 | API library initialization failure because of<br>Insufficient system memory to load MotoPlus API library | Setting error | Under current system configuration and the combination of optional functions, the ACP01 board (Main CPU board) doesn't have enough memory to run MotoPlus application. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). It may be necessary to change the ACP01 board to the one with a large-capacity memory. |
| 8 | User root task "mpUsrRoot()" not included in the application | Setting error | Check if mpUsrRoot() is described in the application program. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 9 | User root task generation failure | Setting error | Under current system configuration and the combination of optional functions, the ACP01 board (Main CPU board) doesn't have enough memory to run MotoPlus application. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). It may be necessary to change the ACP01 board to the one with a large-capacity memory. |
| 10 | RAM-Disk generation failure | Setting error | Under current system configuration and the combination of optional functions, the ACP01 board (Main CPU board) doesn't have enough memory to run MotoPlus application. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). It may be necessary to change the ACP01 board to the one with a large-capacity memory. |

**1020: MotoPlus (APPLICATION LOAD ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 16 | Same name application files exist. | Setting error | Delete the same name application file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1030: MEMORY ERROR(PARAMETER FILE)

This alarm occurs when an error is detected during total check of parameters.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | RCD, RCxG parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 1 | ROxG parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | SVD, SVxG parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1030: MEMORY ERROR(PARAMETER FILE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3 | SVMxG parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 4 | S1CxG, S2C, S3C, S4C parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 5 | S1D, S2D, S3D, S4D parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 6 | CIO parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1030: MEMORY ERROR(PARAMETER FILE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 7 | FD parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 8 | A1P, A2P, ..., A8P parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 9 | RS parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 10 | S1E, S2E, ..., S8E parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1030: MEMORY ERROR(PARAMETER FILE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 11 | SVCxB parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 12 | AMCxG parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 13 | SVPxG parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 14 | MFxG parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1030: MEMORY ERROR(PARAMETER FILE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 15 | SVSxB parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 16 | RExG parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 17 | FMSxB parameter error | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1031: MEMORY ERROR(MOTION1)

Data error occurred in the file data used by MOTION section.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | "GET FILE" instruction, "SET FILE" instruction execution target file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1031: MEMORY ERROR(MOTION1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Home position calibration file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | Tool file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 3 | User coordinates file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 4 | Robot calibration file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 5 | Tool calibration file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 6 | Weaving amplitude condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 7 | Home position correction data file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1031: MEMORY ERROR(MOTION1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8 | Conveyor calibration file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 9 | Arm and tool interference prevention file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 20 | Weaving file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 21 | Power Source condition data file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 22 | Welding condition auxiliary file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 23 | Arc start condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 24 | Arc end condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1031: MEMORY ERROR(MOTION1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 25 | COMARC condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 26 | COMARC data file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 27 | Path correction condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 28 | Painting characteristics file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 29 | Painting condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 30 | Multi-layer index file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 31 | Multi-layer condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1031: MEMORY ERROR(MOTION1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 32 | Sensor monitoring condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 34 | Conveyor condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 35 | Press characteristics file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 36 | Servo float condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 37 | Spot welding Power Source condition data file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 38 | Air-gun condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 39 | Motor-gun condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1031: MEMORY ERROR(MOTION1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 40 | Gun pressure file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 41 | Gun pressure file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 42 | Anticipation OT# output file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 43 | Anticipation OG# output file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 44 | Handling condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 45 | Form cut file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 46 | Spot (user) I/O allocation file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1031: MEMORY ERROR(MOTION1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 47 | Linear servo float condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 48 | Macro definition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 49 | Seal amount correction condition file (spray) | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 50 | Seal amount correction condition file (undercoat) | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 51 | Arc monitor file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 53 | Job registration table | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 54 | Painting device condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1031: MEMORY ERROR(MOTION1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 55 | Painting system file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 56 | Painting condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 57 | Paint characteristics file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 58 | EVB gun file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 59 | Paint filling file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 60 | Welding pulse condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 61 | Clearance file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1031: MEMORY ERROR(MOTION1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 64 | Conveyor condition auxiliary file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 65 | Laser welding start condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 66 | Laser welding end condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 67 | Palletizing condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 68 | Air-gun pressure file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 69 | Mastering registration position | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 86 | Paint system config file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1031: MEMORY ERROR(MOTION1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 87 | Paint special file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 88 | Paint calibration config file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 89 | Paint data config file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 91 | Svclamp file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 92 | Press condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 93 | Tool confirmation file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 94 | press setting file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1031: MEMORY ERROR(MOTION1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 95 | manual spot file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 96 | Sealing system config file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 97 | Sealing special file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 98 | Sealing calibration config file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 99 | Sealing condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 100 | Application data config file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 101 | Speed tracking condition file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1031: MEMORY ERROR(MOTION1) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 102 | Device calibration config file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 103 | Correction table config file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 104 | Pressure error detect file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 105 | Gun support axis pressure file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 107 | Csync interference file | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1033: MEMORY ERROR(MODEL DATA FILE)

The module data file is abnormal

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub;Model file number | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data, and then load the data saved in the external memory device. |

## ◆ 1034: MEMORY ERROR(F-CONDITION FILE)

The force condition file is abnormal

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub;force condition file number | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, initialize the appropriate data, and then load the data saved in the external memory device. |

## ◆ 1050: SET-UP PROCESS ERROR(SYSCON)

The system software monitors if the setup of MOTION section software is properly completed when the power turned ON. This alarm occurs if the MOTION section software fails to properly complete the setup.
Note that the alarm AL-1051 (SET-UP PROCESS ERROR) occurs in conjunction with this alarm. (For details, refer to AL-1051.)
The error and message of interior temperature error and interior fan error might be complicated because it doesn't starting up normally in this state.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Motion instruction setup incomplete. | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | Online error | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 3 | SPOT management file setup incomplete. | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |

**1050: SET-UP PROCESS ERROR(SYSCON) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Welder I/F board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the Welder I/F board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1051: SET-UP PROCESS ERROR(MOTION)

Setup process of MOTION section was not properly completed when the power turned ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Unable to properly activate the servo control | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The position data of when the power supply was turned OFF cannot be transmitted to the servo control section | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The servo control section cannot receive the position data of when the power supply was turned OFF | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Unable to send a request to turn ON the PG power supply for the mounted (PICK) axis | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Unable to turn ON the PG power supply for the mounted (PICK) axis | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |

**1051: SET-UP PROCESS ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Unable to send a request to prepare a feedback pulse | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Unable to prepare a feedback pulse | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | Unable to send a request to initialize the arithmetic section (ARITH) | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Unable to initialize ARITH | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | Unable to send a request to prepare the current position | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1051: SET-UP PROCESS ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 12 | Unable to prepare the current position | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1100: SYSTEM ERROR

An unknown alarm was detected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code<br>C, B, F : Subcode of unknown alarm | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| | | RAM software data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1101: SYSTEM ERROR(MAN-MACHINE MECHA)

An error occurred during the system control check.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code<br>0 to 19: Internal control error in software | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1102: SYSTEM ERROR(MAN-MACHINE APPLI)

An error occurred during the system control check.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code<br>0 to 16383: Internal control error in software | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1103: SYSTEM ERROR(EVENT)

An error occurred during the system event data control check.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code<br>1to8: Internal control error in software | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1104: SYSTEM ERROR(CIO)

An error occurred during the system I/O control check.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code<br>1000_0000: I/O module setting error | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• CN300 communications connector of YIU unit<br>• CN304 power supply connector<br>• Cable of the YIU unit and the expanded I/O board |
| | | Setting error | 1. Turn the power OFF then back ON.<br>2. If the error occurs again, set the I/O module again in maintenance mode.<br>3. If the error occurs again though the previous measures were executed, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1105: SYSTEM ERROR(SERVO)

An error occurred during the SDCA01 board control check.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | No processing corresponds to the command code sent from MOTION section. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | A communication cycle with MOTION section is incorrect. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | A task request was sent to an axis in the alarm status. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | The linear servo float function or gun arm bend compensation function does not support the manipulator type. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 31 | The Motor gun press XYZ position monitoring function cannot be applied for the manipulator type specified in the RC parameter. | Setting error | Check the parameter setting value.<br>If S1CxG170 is set to the number other than 0 (gun axis), change the setting to 0. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 32 | The parameter related to motor gun application is wrong. | Setting error | Check the parameter setting value. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

### 1105: SYSTEM ERROR(SERVO) (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 37 | The manipulator (B-axis) passed the singular point while the linear servo float or gun arm bend compensation function is running. | Setting error | Correct the job so that the manipulator (B-axis) does not pass the singular point while the linear servo float or gun arm bend compensation function is running. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 38 | The wrist axes correction angle surpassed its limit while the linear servo float or gun arm bend compensation function is running. | Setting error | 1. Correct the teaching point where this alarm occurs.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 47 | The alarm number is illegal. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 49 | Parameter was changed during execution of servo float function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 52 | An error occurred when gun control command is executed. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 60 | The axis endless function is set enabled for motor guns. | Setting error | Disable the corresponding axis endless function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 70 | The ASF01 board doesn't support the external axis individual control by the secondary contactor. | ASF01 board failure | Replace the ASF01 board which supports for the external axis individual control by the secondary contactor. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 80 | DIN signal No. 5 is used although DIN signal extension is not valid. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 81 | DIN signal No. 6 is used although DIN signal extension is not valid. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 82 | AXIN signal No. 1 is used although DIN signal extension is valid. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 83 | AXIN signal No. 2 is used although DIN signal extension is valid. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 100 | The sequence was untimely executed in the general-purpose 12ms process although it was not the execution timing. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 101 | The sequence was untimely executed in the SV_M data sub process although it was not the execution timing. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 103 | The sequence was untimely executed in the general-purpose 2ms process although it was not the execution timing. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 104 | The sequence was untimely executed in the general-purpose 4ms process although it was not the execution timing. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 105 | The sequence was untimely executed in the dynamics calculation process although it was not the execution timing. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 106 | The sequence was untimely executed in the dynamics compensation process although it was not the execution timing. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 108 | The sequence was untimely executed in the MCPU sending and receiving process although it was not the execution timing. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 109 | The sequence was untimely executed in the SV_M data process although it was not the execution timing. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 110 | The universal three clock process executing sequence error process was executed according to unexpected timing. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 112 | The sequence was untimely executed in the general-purpose_ OPT1 process although it was not the execution timing. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 113 | The sequence was untimely executed in the general-purpose_ OPT2 process although it was not the execution timing. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 120 | A general-purpose 12ms process did not complete within the time set on the scheduling table. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 121 | The SV_M data sub process did not complete within the time set on the scheduling table. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 123 | The general-purpose 2ms process did not complete within the time set on the scheduling table. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 124 | The general-purpose 4ms process did not complete within the time set on the scheduling table. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 125 | The dynamics calculation process did not complete within the time set on the scheduling table. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 126 | The dynamics compensation process did not complete within the time set on the scheduling table. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 128 | The dynamics calculation process did not complete within the time set on the scheduling table. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 129 | The MCPU sending and receiving process did not complete within the time set on the scheduling table. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 130 | The SV_M data process did not complete within the time set on the scheduling table. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 131 | The universal three clock process did not complete within the time set on the scheduling table. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 132 | The general-purpose_OPT1 process did not complete within the time set on the scheduling table. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 133 | The general-purpose_OPT2 process did not complete within the time set on the scheduling table. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 151 | The averaging time is not an even number. (times) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 160 | The micro program interface did not complete within the time set on the scheduling table. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 170 | The parameter MFxG162 is not valid although the collision detection level data exists. | Setting error | Check the parameter setting value.<br>If MFxG162 is set to the number other than 1 (gun axis), change the setting to 1. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 200 | The notch filter doesn't become effective after shifting to PLAY mode. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 303 | The difference between the base torque and the target torque exceeded the threshold in the jig robot bending correction. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 304 | A base block ON signal is outputted when the base block should be released. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 305 | A base block release signal is outputted when the base block should be turned ON . | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 306 | The specific flag of Blake line check execution axis is not turned off at previous check. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 700 | Data inconsistent status occurred at the start of measurement in the Pendant Oscilloscope Function. | Software operation error occurred | 1. Turn the power OFF then back ON, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 701 | Data inconsistent status occurred during the measurement in the Pendant Oscilloscope Function. | Software operation error occurred | 1. Turn the power OFF then back ON, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 1000 | The check item number of SVD parameter is unmatched. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001 | The check item number of SV parameter is unmatched. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1002 | The check item number of SVM parameter is unmatched. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1003 | The check item number of SVP parameter is unmatched. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1004 | The check item number of AMC parameter is unmatched. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1005 | The check item number of MFG parameter is unmatched. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1006 | The check item number of MFA parameter is unmatched. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1007 | The check item number of SVC parameter is unmatched. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1008 | The check item number of SE parameter is unmatched. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1009 | The check item number of SVC parameter is unmatched. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2100 | The motioning software is not used with circuit board as target. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2500 | The JL077 in which the each Falt signal is recognized but no notification is sent from the converter. | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CPS01-CN154<br>• SDCA01-CN531, CN532, CN533<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592<br>3. If the alarm repeatedly occurs, check if all the cables above are correctly connected. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4001 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4002 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4003 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4004 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4005 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4006 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4007 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4008 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4009 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4010 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4011 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4012 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4013 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4014 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4015 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4016 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4017 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4018 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4019 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4020 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4021 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4022 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4023 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4024 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4025 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4026 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4027 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4028 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4029 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4030 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4031 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4032 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4033 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4034 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4035 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4036 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4037 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4038 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4039 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4040 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4041 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4042 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4043 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4044 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4045 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4046 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4047 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4048 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4049 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4050 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4051 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4052 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4053 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4054 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4055 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4056 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4057 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4058 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4059 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4060 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4061 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4062 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4063 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4064 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4065 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4066 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4067 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4068 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4069 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4070 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4071 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4072 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4073 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4074 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4075 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4076 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4077 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4078 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4079 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4080 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4081 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4082 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4083 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4084 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4085 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4086 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4087 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4088 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4089 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4090 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4091 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4092 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4093 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4094 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4095 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4096 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4097 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4098 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4099 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4100 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4101 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4102 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4103 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4104 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4105 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4106 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4107 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4108 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4109 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4110 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4111 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4112 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4113 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4114 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4115 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4116 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4117 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4118 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4119 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4120 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4121 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4122 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4123 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4124 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4125 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4126 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4127 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4128 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4129 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4130 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4131 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4132 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4133 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4134 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4135 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4136 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4137 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4138 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4139 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4140 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4141 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4142 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4143 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4144 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4145 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4146 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4147 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4148 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4149 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4150 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4151 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4152 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4153 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4154 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4155 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4156 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4157 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4158 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4159 | Execution of motion command did not complete within a certain time period. (***: command code No.) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4501 | The received alarm code is invalid. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4600 | The axis number assigned as external Mecha brake is already used. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6036 | The value set for A1P36 exceeds the permissible value. | Setting error | The value set for A1P36 exceeds the permissible value. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 6092 | The value set for A1P92 exceeds the permissible value. | Setting error | The value set for A1P92 exceeds the permissible value. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 7201 | Interpolation cycle is shorter than the set value. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7202 | Interpolation cycle is shorter than the set value. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7203 | Interpolation cycle is shorter than the set value. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7204 | Interpolation cycle is shorter than the set value. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7205 | Interpolation cycle is shorter than the set value. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 7206 | Interpolation cycle is shorter than the set value. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7207 | Interpolation cycle is shorter than the set value. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7208 | Interpolation cycle is shorter than the set value. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7209 | Interpolation cycle is shorter than the set value. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7301 | The speed ratio is invalid. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7302 | The speed ratio is invalid. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7303 | The speed ratio is invalid. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7304 | The speed ratio is invalid. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7305 | The speed ratio is invalid. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7306 | The speed ratio is invalid. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7307 | The speed ratio is invalid. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7308 | The speed ratio is invalid. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 7309 | The speed ratio is invalid. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7500 | Direct-in number setting error (NSRCH) | Setting error | Three or more direct-in numbers are set for NSRCH instruction.<br>Check the direct-in number setting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 7600 | The setting value for touch pressure is not appropriate. | Setting error | The value set for Touch press (proportion to the 1st pressure) in the gun detail setting file is over 100%. Change the setting value to less than 100%. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 8300 | The setting value for motor is not appropriate. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8501 | ASF04 board<br>Pullback signal not detected | Setting error | 1. Check the following settings.<br>Pullback signal |
| | | ASF04 board failure | If ASF04 board is used, need to confirm the following.<br>1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 9006 | A certain time passed when WDT error is detected. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9007 | A certain time passed when WDT error is detected. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9010 | The size of variable-define data is mismatched. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9011 | The size of variable-define data is mismatched. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9012 | The size of variable-define data is mismatched. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 9020 | PV initializing sequence timeout was detected. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9021 | Common-parameter writing timeout was detected. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9022 | JL086-parameter writing timeout for each axis was detected. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9023 | Parameter writing timeout for each axis was detected. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9024 | Parameter writing timeout for each axis was detected. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9025 | Encoder-parameter writing timeout for each axis was detected. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9030 | Command execution of address setting failed. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9031 | Encoder-setting error was detected. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9032 | Encoder-setting error was detected. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9033 | Encoder-setting error was detected. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9034 | Initial-position designation error occurred when PG power supply was turned ON. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9035 | The number of brake-release axis is not appropriate. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 9036 | Encoder-setting error was detected. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9037 | Encoder-setting error was detected. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9040 | Some errors occurred at the interface between SDCA01 and ASF01. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9050 | Communication WDG. from the other CPU is not appropriate (core 0). | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9051 | Communication WDG. from the other CPU is not appropriate (core 1). | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9052 | REQ. flag from the other CPU is not appropriate(core 1). | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9100 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9101 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9102 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9103 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9104 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9105 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 9106 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9107 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9108 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9109 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9110 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9111 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9112 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9113 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9114 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9115 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9116 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9117 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1105: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 9118 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9119 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9120 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9124 | The combination of the software version and the SDCA01 board revision is incorrect. | Setting error | Please try the software update.<br>In order to know the correct software version, check the SDCA01 board revision, and then contact your Yaskawa representative. |
| 9130 | PCI-interface information error occurred. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9200 | The combination of the software version and the SDCA01 board revision is incorrect. | SDCA01 board failure | Please replace the SDCA01 board compatible with system software.<br>In order to know the SDCA01 board revision, contact your Yaskawa representative. |
| 9201 | The combination of the software version and the SDCA01 board revision is incorrect. | SDCA01 board failure | Please replace the SDCA01 board compatible with system software.<br>In order to know the SDCA01 board revision, contact your Yaskawa representative. |
| 9202 | The combination of the software version and the SDCA01 board revision is incorrect. | SDCA01 board failure | Please replace the SDCA01 board compatible with system software.<br>In order to know the SDCA01 board revision, contact your Yaskawa representative. |
| 9203 | The combination of the software version and the SDCA01 board revision is incorrect. | SDCA01 board failure | Please replace the SDCA01 board compatible with system software.<br>In order to know the SDCA01 board revision, contact your Yaskawa representative. |
| 9204 | The combination of the software version and the SDCA01 board revision is incorrect. | SDCA01 board failure | Please replace the SDCA01 board compatible with system software.<br>In order to know the SDCA01 board revision, contact your Yaskawa representative. |

## ◆ 1109: SYSTEM ERROR(CONVEYOR)

System error occurred in the sensor process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1200: HIGH TEMPERATURE(IN CNTL BOX)

Temperature sensor inside the controller (the CPS01K* unit) is activated, and then error was detected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | The temperature rises in the controller | If the LED (OHT) on the CPS01K* unit lights up, wait until the inside of the controller has got cool and then turn the power OFF then back ON. |
| | | CPS01K* unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following unit.<br>• CPS01K* unit |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1204: COMMUNICATION ERROR(I/O MODULE)

Communication error occurred in the I/O module.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The communication error slot (Serial-bus-connected I/O module communication station No.) is displayed by the bit.<br>0: correct / 1: incorrect | Connection failure | Check the insertion and connection of the followings.<br>• The MII communications cable which I/O module of the corresponding sub code<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | IO module failure | Replace the I/O module of the corresponding station number. |
| | | Power supply broken | Replace the 24V power supply supplied to the I/O module of the corresponding station number. |
| | | AIF01 board broken | Save the CMOS.BIN file.<br>Replace the AIF01 board, and then load the saved CMOS.BIN file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1219: ENABLE SW STICKING

Sticking of enable SW was detected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Programming pendant failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the programming pendant. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1220: LAN COMMUNICATION PARAMETER ERROR

An error occurred in parameter which is used in the Ethernet function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Incorrect setting of the IP address which is used in the Ethernet function.(LAN interface 2) | Setting error | Check the following settings.<br>• IP address setting of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | Incorrect setting of the subnet mask which is used in the Ethernet function.(LAN interface 2) | Setting error | Check the following settings.<br>• Subnet mask of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 3 | Incorrect setting of the default gateway which is used in the Ethernet function. | Setting error | Check the following settings.<br>• Default gateway of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 4 | Incorrect setting of the host address which is used in the Ethernet function. | Setting error | Check the following settings.<br>• Server (host) of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 5 | Incorrect setting of the static route which is used in the Ethernet function.(LAN interface 2 route 1) | Setting error | Check the following settings.<br>• Static route of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 30 | Incorrect setting of the parameter which is used for the SNTP of the Ethernet function. | Setting error | Check the following settings.<br>• SNTP setting of LAN interface in maintenance mode |

**1220: LAN COMMUNICATION PARAMETER ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 31 | Incorrect setting of the IP address of the SNTP server which is used in the Ethernet function of the SNTP. | Setting error | Check the following settings.<br>• SNTP setting of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 32 | Incorrect setting of the IP address of the SNTP server which is used in the Ethernet function of the SNTP. | Setting error | Check the following settings.<br>• SNTP setting of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 33 | Incorrect setting of the DHCP parameter which is used in the Ethernet function of the SNTP. | Setting error | Check the following settings.<br>• SNTP setting of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 70 | Incorrect setting of the host name which is used in the Ethernet function. | Setting error | Check the following settings.<br>• Host name of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 71 | Incorrect setting of the IP address of the DNS server which is used in the Ethernet function of the DNS. | Setting error | Check the following settings.<br>• DNS setting of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 73 | Incorrect setting of the parameter which is used in the Ethernet function of the DNS and the domain. | Setting error | Check the following settings.<br>• DNS setting of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 74 | Incorrect setting of the DHCP parameter which is used in the Ethernet function of the DNS and the domain. | Setting error | Check the following settings.<br>• DNS setting of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 75 | Incorrect setting of the domain which is used in the Ethernet function. | Setting error | Check the following settings.<br>• Domain name of LAN interface in maintenance mode |

### 1220: LAN COMMUNICATION PARAMETER ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 105 | Incorrect setting of the static route which is used in the Ethernet function.(LAN interface 2 route 2) | Setting error | Check the following settings.<br>• Static route of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 1001 | Incorrect setting of the IP address which is used in the Ethernet function.(LAN interface 3) | Setting error | Check the following settings.<br>• IP address setting of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 1002 | Incorrect setting of the subnet mask which is used in the Ethernet function.(LAN interface 3) | Setting error | Check the following settings.<br>• Subnet mask of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 1005 | Incorrect setting of the static route which is used in the Ethernet function.(LAN interface 3 route 1) | Setting error | Check the following settings.<br>• Static route of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 1105 | Incorrect setting of the static route which is used in the Ethernet function.(LAN interface 3 route 2) | Setting error | Check the following settings.<br>• Static route of LAN interface in maintenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1221: ETHERNET INITIAL PROCESS ERROR

An error occurred in the initialization of the Ethernet function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error occurred in the device initialization process of the Ethernet function.(LAN interface 2) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An error occurred in the IP address setting process of the Ethernet function. | Setting error | Check the following settings.<br>• IP address setting of LAN interface in maintenance mode" |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | An error occurred in the subnet mask setting process of the Ethernet function. | Setting error | Check the following settings.<br>• Subnet mask of LAN interface in maintenance mode |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | An error occurred in the default gateway setting process of the Ethernet function. | Setting error | Check the following settings.<br>• Default gateway of LAN interface in maintenance mode |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1221: ETHERNET INITIAL PROCESS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 5 | An error occurred in the host name setting process of the Ethernet function. | Setting error | Check the following settings.<br>• Server (host) of LAN interface in maintenance mode |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | An error occurred in the MAC address getting process of the Ethernet function.(LAN interface 2) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | IP address duplication was detected. | Setting error | Check the following settings.<br>• IP address setting of LAN interface in maintenance mode<br>• IP addresses of other devices in the network. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | IP address duplication was detected. | Setting error | Check the following settings.<br>• IP address setting of LAN interface in maintenance mode<br>• IP addresses of other devices in the network. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | The Ethernet function is enabled in the LAN interface 2 is invalid state. | Setting error | Check the following settings.<br>• LAN interface in maintenance mode |

### 1221: ETHERNET INITIAL PROCESS ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | An error occurred in the Web server task creating process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | An error occurred in the FTP server task creating process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | An error occurred in the FTP client task creating process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 29 | An error occurred in the network task generation process. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | An error occurred in the semaphore generation process for access exclusion of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |

**1221: ETHERNET INITIAL PROCESS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 50 | An error occurred in the Web server task management ID getting process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 51 | An error occurred in the FTP server task management ID getting process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 59 | An error occurred in the DHCP acquisition item setting process of the Ethernet function.(LAN interface 2) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 60 | An error occurred in the DHCP initialization process of the Ethernet function.(LAN interface 2) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 61 | An error occurred in the DHCP interface of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |

### 1221: ETHERNET INITIAL PROCESS ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 62 | The data acquisition process from the server did not complete within regulated time. | Setting error | Check the following settings.<br>• The DHCP server operation<br>• The network status |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 63 | The data acquired from the server were found illegal in the DHCP of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation<br>• The network status |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 64 | An error occurred in the subnet mask acquisition process in the DHCP of the Ethernet function. (LAN interface 2) | Setting error | Check the following settings.<br>• The DHCP server operation<br>• The network status |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 65 | An error occurred in the DNS server address acquisition process in the DHCP of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation<br>• The network status |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |

### 1221: ETHERNET INITIAL PROCESS ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 66 | An error occurred in the Ethernet function DNS domain getting process in the DHCP of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation<br>• The network status |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 67 | An error occurred in the SNTP server address acquisition process in the DHCP of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation<br>• The network status |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 68 | An error occurred in the IP address acquisition process in the DHCP of the Ethernet function.(LAN interface 2) | Setting error | Check the following settings.<br>• The DHCP server operation<br>• The network status |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 69 | An error occurred in the DHCP interface structure object mapping process of the Ethernet function.(LAN interface 2) | Setting error | Check the following settings.<br>• The DHCP server operation<br>• The network status |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |

### 1221: ETHERNET INITIAL PROCESS ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 70 | An error occurred in the DNS resolver initialization process of the Ethernet function. | Setting error | Check the following settings.<br>• The domain name<br>• The DNS related settings<br>• The DHCP server operation<br>• The network status |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 71 | An error occurred in the DNS resolver setting of the Ethernet function. | Setting error | Check the following settings.<br>• The domain name<br>• The DNS related settings<br>• The DHCP server operation<br>• The network status |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 72 | The parameter setting error occurred in the DNS resolver setting of the Ethernet function. | Setting error | Check the following settings.<br>• The domain name<br>• The DNS related settings<br>• The DHCP server operation<br>• The network status |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 73 | The mode error occurred in the DNS resolver setting of the Ethernet function. | Setting error | Check the following settings.<br>• The domain name<br>• The DNS related settings<br>• The DHCP server operation<br>• The network status |

**1221: ETHERNET INITIAL PROCESS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 80 | An error occurred in the basic library initialization process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| 81 | An error occurred in the initialization process other than basic library of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| 100 | An error occurred in the IP address acquisition process in the DHCP of the Ethernet function.(LAN interface 2) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| 240 | An error occurred in the start process of the Ethernet function Telnet (for onboard). | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |

### 1221: ETHERNET INITIAL PROCESS ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 241 | An error occurred in the start process of the Ethernet function Telnet (for expand). | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| 1001 | An error occurred in the device initialization process of the Ethernet function.(LAN interface 3) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1006 | An error occurred in the MAC address getting process of the Ethernet function.(LAN interface 3) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010 | An error occurred in the stop process of the Gratuitous ARP. (LAN interface 3) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1014 | An error occurred in the initializing process of the IP address duplication check setting.(LAN interface 3) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1016 | Failed in IP address and subnet mask setting.(LAN interface 3) | Software operation error occurred | Check the following settings.<br>• IP address and subnet mask settings of LAN interface in maintenance mode |
| | | ACP01 board failure | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

### 1221: ETHERNET INITIAL PROCESS ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1059 | An error occurred in the DHCP acquisition item setting process of the Ethernet function.(LAN interface 3) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1060 | An error occurred in the DHCP initialization process of the Ethernet function.(LAN interface 3) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1064 | An error occurred in the subnet mask acquisition process in the DHCP of the Ethernet function. (LAN interface 3) | Software operation error occurred | Check the following settings.<br>• The DHCP server operation<br>• The network status |
| | | ACP01 board failure | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1068 | An error occurred in the IP address acquisition process in the DHCP of the Ethernet function.(LAN interface 3) | Software operation error occurred | Check the following settings.<br>• The DHCP server operation<br>• The network status |
| | | ACP01 board failure | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1069 | An error occurred in the DHCP interface structure object mapping process of the Ethernet function.(LAN interface 3) | Software operation error occurred | Check the following settings.<br>• The DHCP server operation<br>• The network status |
| | | ACP01 board failure | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1100 | An error occurred in the IP address acquisition process in the DHCP of the Ethernet function.(LAN interface 3) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1222: IP ADDRESS SET FAIL(DHCP)

The IP address acquired in the DHCP of the Ethernet function is not enabled.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | IP address could not be obtained at DHCP. | Setting error | Check the following settings.<br>• The DHCP server operation<br>• The network status |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1227: ENABLE SW DIAGNOSIS ERROR

In the programming pendant, signal judgment and safety diagnosis of two Enable Switches are carried out. An error occurred during enable switch operation or safety diagnosis.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Programing pendant failure | 1. Turn on the main power supply again with the enable switch released.<br>2. If the alarm occurs again, replace the programming pendant. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1240: SAFETY FIELDBUS SETTING ERROR

An error occurred in parameter which is used in the Safety Fieldbus function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Machine Safety doesn't correctly read the value of the processing start wait time. | Data error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the following parameter file in online mode. Initialize the following parameter file in maintenance mode, and then load the parameter file saved in the external memory device.<br>• SD.PRM |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01. |

**1240: SAFETY FIELDBUS SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1241: SAFETY FIELDBUS SYSTEM ERROR

An error occurred in the Safety Fieldbus function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The error was detected by the PROFIsafe stack. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The error was detected by the CIP Safety stack (CH1). Subcode shows the error part of software. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The error was detected by the CIP Safety stack (CH2). Subcode shows the error part of software. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Processing of safety field bus was not completed to the default time. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | The error was detected with the status check of safety field bus communication. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | Invalid processing was detected by the safety field bus. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | Invalid processing was detected by the safety field bus. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |

**1241: SAFETY FIELDBUS SYSTEM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | Virtual communication mode was switched to virtual from safety during the communication of safety field bus. | Software operation error occurred | Set the following item in maintenance mode.<br>• In the case of PROFIsafe, please set the virtual communication to "safety" in the CP1616 board setting screen.<br>• In the case of EtherNet/IP Safety, please set the virtual communication to "safety" in the EtherNet/IP (CPU board) setting screen.<br>• In the case of DeviceNet Safety, please set the virtual communication to "safety" in the DN4 board setting screen. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | The error was detected with the watchdog processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 100 | The error was detected with the communication status check processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 101 | The error was detected with the communication status check processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 102 | Invalid processing status was detected by the safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 103 | The error was detected with the initializing processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |

**1241: SAFETY FIELDBUS SYSTEM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 104 | Invalid processing status was detected by the safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 105 | The error was detected with the F_Dest_Add acquisition processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 106 | The error was detected with the F-Parameter check processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 107 | The error was detected with the Config processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 108 | The error was detected with the cyclic execution processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 109 | The error was detected with the Output data reception processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 110 | The error was detected with the Output data acquisition processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 111 | The error was detected with the Input data setting processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |

**1241: SAFETY FIELDBUS SYSTEM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 112 | The error was detected with the Input data transmission processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 113 | The error was detected with the cyclic stop processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 114 | The error was detected with the F-Parameter acquisition processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 115 | The error was detected with the cyclic execution processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 116 | The error was detected with the diagnostic information acquisition processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 117 | The error was detected with the alarm processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 200 | The error was detected with the config processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 201 | The error was detected with the output data acquisition processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |

**1241: SAFETY FIELDBUS SYSTEM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 202 | The error was detected with the F-Parameter acquisition processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 203 | The error was detected with the diagnostic information acquisition processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 204 | The error was detected with the alarm processing of safety field bus (PROFIsafe). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3000000 | The error was detected by the PROFIsafe stack. Subcode shows the error part of software. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1248: IOSPDCTRL SET ERROR

IOSPDCTRL setting is abnormal

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Nine or more IOSPDCTRL are set.<br>Sub code:The setting number of IOSPDCTRL | Setting error | Modify the setting number of IOSPDCTRL to less than 9 in the maintenance mode.<br>If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1300: SERVO CPU SYNCHRONIZING ERROR

The YRC1000 system performs serial communications between the ACP01 board and SDCA01 board, checking the synchronization of the servo regular process and the communication process. This alarm occurs if any synchronization error is detected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN515<br>• AIF01-CN113 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1301: COMMUNICATION ERROR(SERVO)

This alarm occurs if there is a communication error between AIF01 board and the SDCA01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | Communication status error | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN515<br>• AIF01-CN113 |
| | | CPS01K* unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the LED of the CPS01K* unit: If any of the following red LED indications; +12V, +24V, FAN or OHT has lighten up, replace the CPS01K* unit. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 1 | Watchdog timer error | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN515<br>• AIF01-CN113 |

**1301: COMMUNICATION ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | CPS01K* unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the LED of the CPS01K* unit: If any of the following red LED indications; +12V, +24V, FAN or OHT has lighten up, replace the CPS01K* unit. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 3 | Communication status error | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN515<br>• AIF01-CN113 |
| | | CPS01K* unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the LED of the CPS01K* unit: If any of the following red LED indications; +12V, +24V, FAN or OHT has lighten up, replace the CPS01K* unit. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 4 | Data consistency error | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN515<br>• AIF01-CN113 |
| | | CPS01K* unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the LED of the CPS01K* unit: If any of the following red LED indications; +12V, +24V, FAN or OHT has lighten up, replace the CPS01K* unit. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |

**1301: COMMUNICATION ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1303: ARITHMETIC ERROR(SERVO)

An error occurred in control arithmetic process or parameter arithmetic process in SDCA01 board.
This alarm occurs if a control-related parameter calculated from the input parameter (tool file) is not within the specified range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The data [X____] indicates the generation process.<br>10000: Observer control<br>20000: High-precision path control<br>30000: Dynamics<br>40000: Disturbance observer control<br>The data [_YYY_] indicates the alarm contents.<br>The data [____Z] indicates the physical axis number. | Tool file setting error | Check the tool file setting.<br>(Check the units of mass and center of gravity, positive/ negative signs.) |
| | | Motor load error | Check the followings.<br>Overload is applied to the manipulator. Correct the tools, the work pieces, and the drive condition. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1306: AMPLIFIER TYPE MISMATCH

When the controller power turned ON, the YRC1000 system checks the current capacity of the SERVOPACK amplifier in the servo control circuit board. This alarm occurs if there is a difference in the capacity between the set value and the mounted amplifier.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the following settings.<br>• Check the current capacity of the amplifier before/after replacement by the model described in board.<br>• When the external axis is mounted, check if there is no difference between the amplifier selected at configuration and the amplifier that is actually mounted.<br>Reference parameter: after SVPxG290 |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN501<br>• SDCA01-CN531, CN532, CN533<br>• Inverter board-CN571<br>• SDB(External axis servo pack)-CN591<br>• SGDM(Large Capacity)-CN1 |
| | | Module failure(amplifier) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the amplifier. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1307: ENCODER TYPE MISMATCH

When the controller power turned ON, the YRC1000 system checks the encoder type of the manipulator. This alarm occurs if there is a difference between the set value and the mounted encoder.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the following settings.<br>• Check the motor type before and after the replacement.<br>• When the external axis is mounted, check if there is no difference between the motor selected at configuration and the motor that is actually mounted. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN508<br>• SDCA01-CN534, CN535, CN536 |
| | | Module failure(encoder) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the encoder. |

**1307: ENCODER TYPE MISMATCH (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1308: CONVERTER TYPE MISMATCH

When the controller power turned ON, the YRC1000 system checks the converter type. This alarm occurs if there is a difference between the set value and the mounted converter type.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the converter in which the alarm occurred | Setting error | Check the following settings.<br>• Check the current capacity of the amplifier before/after replacement by the model described in board.<br>• When the external axis is mounted, check if there is no difference between the converter selected at configuration and the converter that is actually mounted.<br>Reference parameter: after SVCxB060 |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1309: HARDWARE ERROR(CONVERTER)

Converter hardware is incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the converter in which the alarm occurred | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1310: CHARGE ERROR(CONVERTER)

Converter charge error

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the converter in which the alarm occurred | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter.<br>Before replacing the converter, check if the inverter's CN572 connector (PN input) is short-circuited.<br>If there is a short circuit, replace the inverter as well as the converter. |
| | | Primary power failure | Check if the primary power supply voltage does not drop with a tester, etc. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1311: A/D DETECTION ERROR(CONVERTER)

Converter A/D detection is incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the converter in which the alarm occurred | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1312: ID ERROR(CONVERTER)

Converter ID is incorrect.
The YRC1000 system checks internal state of converter in the converter board. This alarm occurs if any malfunction is found.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the converter in which the alarm occurred | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1320: SERIAL ENCODER SENSOR ERROR

An error occurred in the encoder.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Module failure(encoder) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the encoder. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1321: SERVO BOARD ERROR(BRAKE SIGNAL)

Brake signal is incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CNBX<br>• ASF01-CNBX, CN207(AXDIN,AXIN)<br>3. Check the connection of wiring around the brake circuit board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1325: COMMUNICATION ERROR(ENCODER)

The YRC1000 system performs serial communications between controller and encoder. This alarm occurs if the system fails to establish the communications.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01-CN508<br>[External axis]<br>• Cable between encoders<br>• SDCA01-CN534, CN535, CN536<br>[Using external force monitoring board ASF04 in collaborative robot system]<br>• ASF04 board-CN231,CN232,CN235,CN236,CN237, CN238<br>• CPS01K* Unit-CN156<br>[Using encoder communication converter board ENC01A]<br>• ENC01A board-CN741-CN747<br>• CPS01K* Unit-CN156<br>3. If the alarm recurs after taking the measures described in (2), check the connection and insertion of the encoder one position before the axis where the alarm occurred. |
| | | Module failure(encoder) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the encoder.<br>3. If the alarm recurs after taking the measures described in (2), replace the encoder one position before the axis where the alarm occurred. |
| | | Multi-port connector failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the multi-port connector. |

**1325: COMMUNICATION ERROR(ENCODER) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | Take the following measures only if the sub code shows the first axis of a multi-drop encoder (usually S axis) or a serial encoder (external axis);<br>1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Connector board (Encoder power supply board) | Take the following measures only if the sub code shows the first axis of a multi-drop encoder (usually S axis);<br>1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the Connector board. |
| | | ASF04 board failure | In case of using a ASF04 board (collaborative robot), take the following measures only if the sub code shows the first axis of a multi-drop encoder (usually S axis) or a serial encoder (external axis);<br>1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ENC01A board failure | If ENC01A board is used, need to confirm the following.<br>1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ENC01A board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1326: DEFECTIVE ENCODER ABSOLUTE DATA

When the controller power turned ON, the YRC1000 system checks the encoder data. This alarm occurs if there is an error in the encoder data .

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01-CN508<br>[External axis]<br>• Cable between encoders<br>• SDCA01-CN534, CN535, CN536 |
| | | Module failure(encoder) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the encoder. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board and the EAXB board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1327: ENCODER OVER SPEED

When the controller power turned ON, the YRC1000 system checks the encoder data. This alarm occurs if any axis moves (i.e. falls by its own weight), or an encoder rotation speed of 400 rpm or more is detected during the power-ON process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Turn the power OFF then back ON.<br>2. Before turning the servo power OFF, change the manipulator posture so that any axes won't drop when the servo power is turned ON.<br>3. If the alarm occurs again in combination with encoder backup error, replace the battery of the appropriate axis.<br>4. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01-CN508<br>[External axis]<br>• Cable between encoders<br>• SDCA01-CN534, CN535, CN536 |
| | | Encoder failure | Replace the defective motor (encoder). |
| | | SDCA01 board failure | Check whether to find error in the brake slip and the brake control relay. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1328: DEFECTIVE ENCODER

The YRC1000 system performs serial communications between controller and encoder. This alarm occurs if there is an error in the internal data of the encoder.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01-CN508<br>[External axis]<br>• Cable between encoders<br>• SDCA01-CN534, CN535, CN536 |
| | | Module failure(encoder) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the encoder. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1329: DEFECTIVE ENCODER COMMAND

The YRC1000 system performs serial communications between controller and encoder. This alarm occurs if the operation in response to the encoder command is a malfunction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01-CN508<br>[External axis]<br>• Cable between encoders<br>• SDCA01-CN534, CN535, CN536 |
| | | Module failure(encoder) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the encoder. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1332: POSITION ERROR

The number of pulses generated by one motor rotation does not agree with the specified value.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe.<br>• Check the position after the alarm. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01-CN508<br>[External axis]<br>• Cable between encoders<br>• SDCA01-CN534, CN535, CN536 |
| | | Noise interference | Check the following settings.<br>• Check the grounding condition of Manipulator.<br>• Install a ferrite core to the motor power line. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1333: POSITION ERROR(SERIAL ENCODER)

The number of pulses generated by one motor rotation does not agree with the specified value.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01-CN508<br>[External axis]<br>• Cable between encoders<br>• SDCA01-CN534, CN535, CN536 |
| | | Noise interference | Check the following settings.<br>• Check the grounding condition of Manipulator.<br>• Install a ferrite core to the motor power line. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1335: ENCODER NOT RESET

This alarm occurs when reset operation to recover from the encoder backup error did not complete.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Battery failure | Replace the battery. |
| | | Module failure(encoder) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the encoder. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1339: OVER SPEED LIMIT

The speed is exceeding the limit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the JOB. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1341: SERVO OVERRUN ERROR

Overrun signal occurred.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Motion range error | Check if the overrun limit switch is activated by the manipulator. |
| | | Connection failure | Check the overrun line. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1343: COMMUNICATION ERROR(CONVERTER)

The YRC1000 system performs serial communications between the SDCA01 board and the converter.
This alarm occurs if there is an error in the serial communications.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 101 | Communication status error (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 102 | Command timeout (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1343: COMMUNICATION ERROR(CONVERTER) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 103 | Transmission buffer FULL (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 104 | CRC-16 failure (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 105 | Error code received (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1343: COMMUNICATION ERROR(CONVERTER) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 106 | Receive command error (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 201 | Communication status error (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 202 | Command timeout (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1343: COMMUNICATION ERROR(CONVERTER) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 203 | Transmission buffer FULL (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 204 | CRC-16 failure (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 205 | Error code received (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1343: COMMUNICATION ERROR(CONVERTER) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 206 | Receive command error (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 301 | Communication status error (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 302 | Command timeout (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1343: COMMUNICATION ERROR(CONVERTER) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 303 | Transmission buffer FULL (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 304 | CRC-16 failure (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 305 | Error code received (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1343: COMMUNICATION ERROR(CONVERTER) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 306 | Receive command error (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 401 | Communication status error (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 402 | Command timeout (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1343: COMMUNICATION ERROR(CONVERTER) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 403 | Transmission buffer FULL (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 404 | CRC-16 failure (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 405 | Error code received (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1343: COMMUNICATION ERROR(CONVERTER) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 406 | Receive command error (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 501 | Communication status error (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 502 | Command timeout (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1343: COMMUNICATION ERROR(CONVERTER) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 503 | Transmission buffer FULL (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 504 | CRC-16 failure (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 505 | Error code received (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1343: COMMUNICATION ERROR(CONVERTER) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 506 | Receive command error (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 601 | Communication status error (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 602 | Command timeout (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1343: COMMUNICATION ERROR(CONVERTER) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 603 | Transmission buffer FULL (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 604 | CRC-16 failure (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 605 | Error code received (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1343: COMMUNICATION ERROR(CONVERTER) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 606 | Receive command error (The first digit shows the converter No.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1349: POWER LOST DETECTION(SDCA01 board)

POWER LOST signal was detected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Instant power failure | Check if the primary power supply voltage is dropping. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1352: ENCODER CORRECTION ERROR

The YRC1000 system controls the manipulator based on the position data from encoder. If a communication error occurs in a control cycle, the system controls the manipulator in accordance with the previous position data checking the compensation data. This alarm occurs if the compensation data is not within the specified value.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01-CN508<br>[External axis]<br>• Cable between encoders<br>• SDCA01-CN534, CN535, CN536 |
| | | Module failure(encoder) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the encoder. |

**1352: ENCODER CORRECTION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1355: ENCODER MULTITURN LIMIT ERR

When the controller power turned ON, the YRC1000 system checks the encoder multi-turn quantity. This alarm occurs if the multi-turn quantity data is not within the normal range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01-CN508<br>[External axis]<br>• Cable between encoders<br>• SDCA01-CN534, CN535, CN536 |
| | | Module failure(encoder) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the encoder. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1356: SPECIFIED AXIS ERROR

A task request was sent to an axis of the group that was disabled by the group separation function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Check the job setting.<br>2. Turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1357: PRESS ERROR

The position or speed value exceeded the limit value during pressuring after gun tip hit the welded target. The motion after gun tip hits the welded target is incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Check the job setting.<br>2. Turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1365: GROUND FAULT

This alarm occurs if there is a ground fault in any motor power line connected to converter. The axis cannot be specified because of detection with the converter, but the axis can be specified if "4337 over current (amplifier)" has been occurred at the same time or it remains in the history.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred.<br>(If the alarm occurred at an axis which is driven by a common converter, all the subject axes are indicated.) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Inverter board-CN573-579<br>• SDB (External axis SERVO PACK)-CN594 |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following cables.<br>Check the axis in which earth fault occurs in the alarm history screen.<br>If both robot axes and external axes use the same type converter, the earth fault may occur on the external axis not the robot axis. (There is also a possibility that it is stained by water)<br>• External axis cables (Power wire)<br>• Traveling axis cable (Power wire)<br>• Power supply cable (Robot axis, external axis) (Power wire)<br>• Internal cables (Robot axis, external axis) (Power wire) |
| | | Module failure (Regenerative resistor) | Check if there is no ground fault in the regeneration resistors. |
| | | GND wiring failure | 1. Turn the power OFF then back ON.<br>2. If the alarm repeats, check the voltage of the primary power and GND. If the voltage amount on each RST varies more than 100V, review the GND setting. |
| | | Module failure(motor) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the motor. |
| | | Module failure(amplifier) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the Inverter board. |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |

**1365: GROUND FAULT (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | APU01 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replacing the YPU unit to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1367: OVERVOLTAGE(CONVERTER)

The DC voltage supplied from the converter to the SERVO PACK exceeded Stipulated voltage (420V). This alarm occurs if the regenerative energy during the motor deceleration is too much that it cannot be processed in the regenerative circuit of SERVO PACK.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the physical No. of converter in which the alarm occurred | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB (External axis SERVO PACK)-CN591,592 |
| | | Setting error | Check the load mounted on the manipulator. |
| | | Voltage failure | Modify the primary breaker voltage to the specified voltage 200V(+10%to15%). |
| | | Module failure (Regenerative resistor) | 1. Disconnect the converter-CN552 to check if there is no cable disconnection.<br>2. If disconnected, replace the regenerative resistor. |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1368: REGENERATIVE TROUBLE(CONVERTER)

This alarm occurs if the converter regenerative resistor cable is disconnected or short-circuited.
The regenerative energy at motor deceleration exceeded the allowable limit.
The regenerative energy at motor deceleration is too large.
The primary power supply voltage is too high (above 242V)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB (External axis SERVO PACK)-CN591,592 |
| | | Module failure (Regenerative resistor) | Replace the regenerative resistor. |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Overloading | Check that the load does not exceed the allowable limit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1369: INPUT POWER OVER VOLTAGE(CONV)

This alarm occurs if the input voltage monitored by the YRC1000 exceeds 420 V.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the physical No. of converter in which the alarm occurred | Voltage failure | Modify the primary breaker voltage to the specified voltage 200V(+10%to15%). |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN507, CN531, CN532, CN533<br>• CPS01-CN154<br>• Converter-CN557, CN561<br>• SDB (External axis SERVO PACK)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1370: MICRO PROGRAM ERROR (SV)

Micro program error occurred.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1371: SERVO PROGRAM SYNC. ERROR (SV)

Synchronizing error was detected in the micro program.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was detected in the micro program | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01 board-CN515/516<br>• AIF01 board-CN111<br>3. Using the coordinated system, check the connection and insertion of the following cables and connectors for the slave manipulator.<br>• SDCA01 board-CN509<br>• CPS01K* unit-CN155 |
| | | CPS01K* unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following unit for the slave manipulator of the coordinate system.<br>• CPS01K* unit |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1372: PARAMETER ERROR (CONVERTER)

Parameter error occurred in converter.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred. | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1373: OVERCURRENT(CONVERTER)

Overcurrent is detected in converter.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred. | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1374: ENCODER MIXED ALLOCATION ERROR

Encoder-axis allocation is mismatched.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Setting error | Check the parameter setting value. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1375: ENCODER ALLOCATION RANGE ERROR

Encoder-axis allocation is mismatched.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Setting error | Check the parameter setting value. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1376: ENCODER SET AXES NUMBER OVER

Encoder-axis allocation is mismatched.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Setting error | Check the parameter setting value. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1377: ENCODER CABLE DISCONNECTION(SV)

Communication between the controller and encoder is not possible when the control power is turned on, and address setting cannot be performed for the multi-drop encoder.
This alarm occurs only when the control power is turned on.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred. | Connection failure | The addresses are set in order starting from the multi-drop encoder closest to the servo board, and only one axis that cannot be set is displayed as an alarm. If the axis where the alarm occurs is in the middle of the axis, the address can be set normally up to the axis before the axis indicated in sub code. So check the cable between the two axes including the axis where the alarm occurs or the encoder of the axis where the alarm occurs.<br>1. Turn the power OFF then back ON.<br>2. The multi-drop encoders are addressed in order of near side by the SDCA01 board, and only 1 axis which is not able to address is alarmed. And the encoders are addressed successfully before the alarm axis. Therefore, check the connection and insertion of the cable and connector before the alarm axis, or the encoder of the alarm axis.<br>3. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01-CN508<br>[External axis]<br>• Cable between encoders<br>• SDCA01-CN534, CN535, CN536<br>[Using external force monitoring board ASF04 in collaborative robot system]<br>• ASF04 board-CN235,CN236,CN237,CN238 |
| | | Module failure(encoder) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the encoder.<br>3. If the alarm recurs after taking the measures described in (2), replace the encoder one position before the axis where the alarm occurred. |
| | | Multi-port connector failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the multi-port connector. |
| | | SDCA01 board failure | Take the following measures only if the sub code shows the first axis of a multi-drop encoder (usually S axis) or a serial encoder (external axis);<br>1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Connector board (Encoder power supply board) | Take the following measures only if the sub code shows the first axis of a multi-drope encoder (usually S axis);<br>1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the Connector board. |

**1377: ENCODER CABLE DISCONNECTION(SV) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF04 board failure | In case of using a ASF04 board (collaborative robot), take the following measures only if the sub code shows the first axis of a multidrop encoder (usually S axis) or a serial encoder (external axis);<br>1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1378: MICRO PROGRAM INIT. SEQ. ERR(SV)

Micro program error occurred.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1379: CHOPPER OVERCURRENT(CONVERTER)

POWER REGENERATIVE overcurrent is detected in converter.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred. | Primary power failure | Check there is no fluctuation in the primary power supply of the converter, especially no intermittent voltage drop. |
| | | Setting error | Check the following settings;<br>• Tool data<br>• JOB<br>• Workpiece<br>• JOB speed<br>• Acceleration and deceleration (ACC, DEC) |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1380: ENCODER ADDRESS VERIFY ERROR

Encoder-address verify error is detected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred. | Setting error | Check the parameter setting value. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1381: INPUT PRIMARY POWER SUPPLY MISMATCH

The voltage of the primary power supply (200V or 400V) differs from the converter specification.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred. | Voltage failure | Check the primary breaker voltage to the specified voltage |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | Connection failure | Check the power supply cable of the cooling fan in the CPS01K* unit.<br>• CPS01K* Unit - CN101<br>• SDCA01 board - CN509 |
| | | CPS01K* unit failure | Replace the CPS01K* unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1382: Safety Signal Timing Error(SV)

The STO is abnormal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | STO 1 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | STO 2 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**1382: Safety Signal Timing Error(SV) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | STO 3 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | STO 4 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1383: Gate Drive Error1(SV)

The STO is abnormal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | STO 1 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | STO 2 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1383: Gate Drive Error1(SV) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3 | STO 3 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | STO 4 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1384: Gate Drive Error2(SV)

The STO is abnormal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | STO 1 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | STO 2 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | STO 3 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |

**1384: Gate Drive Error2(SV) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | STO 4 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1385: Gate Drive Error3(SV)

The STO is abnormal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | STO 1 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | STO 2 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | STO 3 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**1385: Gate Drive Error3(SV) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | STO 4 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1386: STO Sequence monitor Error(SV)

The STO is abnormal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | STO 1 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | STO 2 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | STO 3 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1386: STO Sequence monitor Error(SV) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4 | STO 4 is abnormal. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1397: ALARM SYNC WDT ERROR

The WDT data upload error occurred.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01 board-CN515/516<br>• AIF01 board-CN111<br>3. Using the coordinated system, check the connection and insertion of the following cables and connectors for the slave manipulator.<br>• SDCA01 board-CN509<br>• CPS01K* unit-CN155 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1399: POWER REGENERATIVE OVERCURR.(CV)

POWER REGENERATIVE overcurrent is detected in converter.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred. | Primary power failure | Check there is no fluctuation in the primary power supply of the converter, especially no intermittent voltage drop. |
| | | Setting error | Check the following settings;<br>• Tool data<br>• JOB<br>• Workpiece<br>• JOB speed<br>• Acceleration and deceleration (ACC, DEC) |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |

**1399: POWER REGENERATIVE OVERCURR.(CV) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1400: ENCODER ERROR(CONVEYOR)

The encoder is abnormal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Conveyor encoder 1 is abnormal. | Connection failure, Module failure(encoder) | Replace the cable of the conveyor encoder 1 or encoder. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | Conveyor encoder 2 is abnormal. | Connection failure, Module failure(encoder) | Replace the cable of the conveyor encoder 2 or encoder. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 3 | Conveyor encoder 3 is abnormal. | Connection failure, Module failure(encoder) | Replace the cable of the conveyor encoder 3 or encoder. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1401: CANNOT CHANGE CONVEYOR MODE

The encoder mode "Encoder / Virtual encoder" was switched by the general input while performing conveyor synchronized function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Input error | Do not switch "Encoder / Virtual encoder" with the general signal while performing the conveyor synchronized function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1402: WORK IN/NOT DATA CNT. LMT. OVER

An arithmetic error occurred for the current position pulse of Work IN/NOT Shift Data.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Work status error | Check the work in/not shift data and actual the work status within the shift area. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1403: WORK IN/NOT SHIFT DATA POS LMT.

An arithmetic error occurred for the current travel length of Work IN/NOT Shift Data.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Work status error | Check the work in/not shift data and actual the work status within the shift area. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1404: WORK ID. DATA CNT. LMT. OVER

An arithmetic error occurred for the current position pulse of Work ID Shift Data.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Work status error | Check the work in/not shift data and actual the work status within the shift area. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1405: WORK ID. SHIFT DATA POS LMT.

An arithmetic error occurred for the current travel length of Work ID Shift Data.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Work status error | Check the work in/not shift data and actual the work status within the shift area. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1406: START SHIFT DATA CNT. LMT. OVER

An arithmetic error occurred for the current position pulse of Start Shift Data.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Work status error | Check the start shift data and actual the work status within the shift area. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1407: START SHIFT DATA POS LMT.

An arithmetic error occurred for the current travel length of Start Shift Data.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Work status error | Check the start shift data and actual the work status within the shift area. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1437: PORT OPEN ERROR

Failed to open the communication port.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1512: POWER SUPPLY FAN ERROR(SERVO)

The rotation speed of in-panel cooling fan decreased.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | Check the power supply cable of the cooling fan in the CPS power unit. |
| | | CPS01K* unit failure | Check the cooling fan in the CPS01K* unit is working. Replace the CPS01K* unit. |
| | | Install failure | Check that the air inlet or outlet is not blocked. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1513: POWER SUPPLY OVERHEAT(SERVO)

Temperature sensor in the CPS01K* unit is activated. The internal temperature of the controller is abnormally increased.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | The temperature rises in the controller | Turn the power OFF then back ON after cooling the controller. |
| | | Connection failure | Check the power supply cable of the cooling fan in the CPS01K* unit. |
| | | CPS01K* unit failure | Replace the CPS01K* unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1514: OVERHEAT(AMPLIFIER)

Amplifier overheated.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | The temperature rises in the amplifier | Turn the power OFF then back ON after cooling the amplifier. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN501<br>• SDCA01-CN531, CN532, CN533<br>• Inverter board-CN571<br>• SDB(External axis servo pack)-CN591,592 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1547: CURRENT FEEDBACK ERROR

This alarm occurs if an excessive current is applied for motor.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The data [XXX__] indicates the alarm contents.<br>200:The motor current value is abnormal.<br>The data [_____Y] indicates the physical axis number. | Ground fault | Check if a ground fault has not occurred in the U-, V-, and W-phase of motor power line, or short circuit has not occurred between these phases. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN501, CN531, CN532, CN533<br>• Inverter board-CN571,CN573-579<br>• CPS01 unit-CN157<br>• SDB(External axis servo pack)-CN591,594<br>• Motor power line |
| | | Setting error | 1. Check the load mounted on the manipulator.<br>2. Check the JOB.<br>• Reduce the speed in the step where the alarm occurred.<br>• Adjust the acceleration/deceleration by ACC and DEC for the teaching position.<br>• Change the move instruction to joint interpolation (MOVJ).<br>* Be careful to the peripheral interference since its movement changes.<br>1. Turn the power OFF then back ON. |
| | | Module failure(amplifier) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the amplifier. |
| | | Module failure(motor) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1554: OVERCURRENT(SERVO2)

Overcurrent was detected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Ground fault | Check if a ground fault has not occurred in the U-, V-, and W-phase of motor power line, or short circuit has not occurred between these phases. |
| | | The temperature rises in the controller | Turn the power OFF then back ON after cooling the controller. |
| | | Setting error | Check the settings for manipulator motion condition (influence by external force, load condition). |

**1554: OVERCURRENT(SERVO2) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Module failure(motor) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the motor. |
| | | Module failure (SERVOPACK) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SERVOPACK. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1560: SYSTEM ERROR(SERVO2)

The internal program error occurred in the SERVOPACK.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN534, CN535, CN536<br>• SGDM(Large Capacity)-CN1 |
| | | Module failure (SERVOPACK) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SERVOPACK. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1610: F-SAFE CPU SYNCHRO ERROR

The CPU timer and the communication interruption timing are checked by the function safety board when performing the serial communication between ACP01 (main CPU board) and ASF01 board. This alarm occurs if the timing becomes off.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01 Board -CN515<br>• AIF01 Board-CN113<br>• SDCA01 Board And ASF01 - CNBX |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1612: F-SAFE COMMUNICATION ERROR

The CPU timer and the communication interruption timing are checked by the function safety board when performing the serial communication between ACP01 (main CPU board) and ASF01 board. This alarm occurs if the timing becomes off.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | Communication status error | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01 Board -CN515<br>• AIF01 Board-CN113<br>• SDCA01 Board And ASF01 - CNBX |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 1 | Watchdog timer error | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01 Board -CN515<br>• AIF01 Board-CN113<br>• SDCA01 Board And ASF01 - CNBX |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | JL0101 alarm | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01 Board -CN515<br>• AIF01 Board-CN113<br>• SDCA01 Board And ASF01 - CNBX |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**1612: F-SAFE COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 3 | Communication status error | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01 Board -CN515<br>• AIF01 Board-CN113<br>• SDCA01 Board And ASF01 - CNBX |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 4 | Data consistency error | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01 Board -CN515<br>• AIF01 Board-CN113<br>• SDCA01 Board And ASF01 - CNBX |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1612: F-SAFE COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 5 | CRC error | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01 Board -CN515<br>• AIF01 Board-CN113<br>• SDCA01 Board And ASF01 - CNBX |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 6 | CRC error | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 7 | CRC error | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1613: F-SAFE ENCODER COMM. ERR 1

Communication error occurred between the encoder and the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Blown fuse | If AL1962 "SDCA01 board failure" occurred simultaneously with this alarm,<br>Replace the fuse(F1) in the SDCA01 board. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01 Board - CN508<br>• SDCA01 Board And ASF01 - CNBX<br>[External axis]<br>• Cable between encoders<br>• SDCA01 Board - CN534, 535, 536<br>• SDCA01 Board And ASF01 - CNBX |
| | | Module failure(encoder) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the encoder. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1614: F-SAFE ENCODER COMM. ERR 2

Communication error occurred between the encoder for all axes on the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board(Blown fuse) | If AL1962 "SDCA01 board failure" occurred simultaneously with this alarm,<br>Replace the fuse(F1) in the SDCA01 board. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01 Board - CN508<br>• SDCA01 Board And ASF01 - CNBX connector<br>[External axis]<br>• Cable between encoders<br>• SDCA01 Board - CN534, 535, 536<br>• SDCA01 Board And ASF01 - CNBX connector<br>[Using external force monitoring board ASF04]<br>• ASF04 board-CN231,CN232,CN235,CN236,CN237,CN238<br>• CPS01K* unit-CN156 |
| | | Module failure(encoder) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the encoder. |

**1614: F-SAFE ENCODER COMM. ERR 2 (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ASF04 board failure | If ASF04 board is used, need to confirm the following.<br>1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1615: F-SAFE SYSTEM ERROR

System error occurred in the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, confirm the following connector's connection and insertion.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01-CN508<br>[External axis]<br>• Cable between encoders<br>• SDCA01-CN534, CN535, CN536<br>[Using external force monitoring board ASF04]<br>• ASF04 board-CN235,CN236,CN237,CN238 |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ASF04 board failure | If ASF04 board is used, need to confirm the following.<br>1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1616: F-SAFE SYSTEM ERROR 1

System error occurred in the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ASF04 board failure | If ASF04 board is used, need to confirm the following.<br>1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1618: F-SAFE ARITHMETIC ERROR

Arithmetic error occurred in the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1619: F-SAFE PARAMETER ERROR

Parameter setting value error occurred in the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1622: F-SAFE DEFECTIVE ENCODER

The ASF01 board has detected a malfunction of the encoder diagnostic data.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01 Board - CN508<br>• SDCA01 Board And ASF01 - CNBX<br>[External axis]<br>• Cable between encoders<br>• SDCA01 Board - CN534, 535, 536<br>• SDCA01 Board And ASF01 - CNBX |
| | | Module failure(encoder) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the encoder. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1623: F-SAFE ENCODER CORR. NUM OVER

The ASF01 board monitors position information sent from the encoder. If communication error occurs during a control cycle, it monitors based on the last position data. At that time, if the correction data exceeds the specified value, the alarm occurs.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01 Board - CN508<br>• SDCA01 Board And ASF01 - CNBX<br>[External axis]<br>• Cable between encoders<br>• SDCA01 Board - CN534, 535, 536<br>• SDCA01 Board And ASF01 - CNBX |
| | | Module failure(encoder) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the encoder. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1626: SAFETY BOARD NOT INSTALLED

This alarm is caused if the ASF01 board which has not been installed is assigned.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01-CNBX-ASF01 connectors. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1627: SAFETY BOARD COMM ERROR(SERVO)

The communication error occurred
between the ASF01 board and the SDCA01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the SDCA01-CNBX-ASF01 connectors. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1630: F-SAFE MUTUAL DIAG. ERR(WDT)

The ASF01 board is configured by duplicated systems to check operations each other. Either of the duplicated systems operates abnormally, watchdog check failed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1631: F-SAFE MUTUAL DIAG. ERR(HW SET)

The ASF01 board is configured by duplicated systems to check operations each other. Either of the duplicated systems has detected hardware setting error of the other system

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Confirm that the rotary switch on the ASF01[#1-8] board is set to [0-7]. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1632: F-SAFE MUTUAL DIAG. ERR(MONITOR)

The ASF01 board is configured by duplicated systems to check operations each other. A safety monitoring error occurred in either of the duplicated systems.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1635: F-SAFE LOW VOLTAGE

The ASF01 board is configured by duplicated systems to check operations each other. Either of the duplicated systems has detected abnormal voltage of the other system

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Low voltage error detected in the 1.0V supply line. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | Low voltage error detected in the 1.5V supply line. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 3 | Low voltage error detected in the 1.8V supply line. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1635: F-SAFE LOW VOLTAGE (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4 | Low voltage error detected in the 3.3V supply line. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 5 | Low voltage error detected in the 5.0V supply line. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 6 | Low voltage error detected in the 24.0V supply line. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1636: F-SAFE OVER VOLTAGE

The ASF01 board is configured by duplicated systems to check operations each other. Either of the duplicated systems has detected abnormal voltage of the other system

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Over voltage error detected in the 1.0V supply line. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | Over voltage error detected in the 1.5V supply line. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 3 | Over voltage error detected in the 1.8V supply line. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 4 | Over voltage error detected in the 3.3V supply line. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1636: F-SAFE OVER VOLTAGE (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 5 | Over voltage error detected in the 5.0V supply line. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 6 | Over voltage error detected in the 24.0V supply line. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1637: F-SAFE RAM DIAGNOSIS ERROR

The ASF01 board has detected RAM diagnosis error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1638: F-SAFE ROM DIAGNOSIS ERROR

The ASF01 board has detected ROM diagnosis error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1639: F-SAFE RAM AREA CONVERSION ERR

The ASF01 board has detected processing error of mirror area used for RAM diagnosis.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1640: F-SAFE REAL TIME MONITOR ERROR

The ASF01 board has detected processing error of real time monitor.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Failed in the realtime monitor | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | Failed to initialize realtime monitor | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 3 | Failed to initialize realtime monitor | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 5 | Process in the realtime monitor (RTP) error occurred | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 6 | Process in the realtime monitor (NRTP) error occurred | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 7 | Process in the realtime monitor (NRTP) error occurred | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1642: F-SAFE WATCHDOG SIGNAL ERROR

The ASF01 board has detected watchdog signal error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1643: F-SAFE SAFETY SIGNAL SET ERROR

Safety signal configuration data of safety monitoring conditions file is abnormal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code:<br>Code [X _ _ _ ] indicates the abnormal content.<br>1000:Input/output signal number in conditionfile is abnormal.<br>2000:Functional safety general input signal that is not available is set in condition file.<br>3000:Functional safety general output signal that is not available is set in condition file.<br>4000:Safety fieldbus input signal that is not available is set in condition file.<br>5000:Safety fieldbus output signal that is not available is set in condition file.<br>6000:File valid condition data is abnormal.<br>Code [ _ Y _ _ ] indicates the type of condition file abnormality occurs.<br>100:Axis range limit function<br>200:Axis speed monitor function<br>300:Speed limit function<br>400:Robot range limit function<br>500:Tool angle monitor function<br>600:Tool change monitor function<br>Code [ _ _ Z Z] indicates the number of condition file abnormality occurs. | Data error | If the alarm occurs again, check the configuration of condition file abnormality occurs. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1646: F-SAFE COMM.SETTING ERROR

The rotary switch setting on the ASF01 board has an error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: The rotary switch number recorded in the ASF01 board is shown. | Setting error | 1. Select the following menu.<br>• [File]-[Initialize],[Safety Board FLASH Reset] in maintenance mode.<br>2. Turn the power OFF then back ON. |
| | | Setting error | Confirm that the rotary switch on the ASF01[#1-8] board is set to [0-7]. |

**1646: F-SAFE COMM.SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1650: FILE TRANSFER DATA ERROR (SV)

An error occurred in the file transfer sequence at execution of motion command.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error occurred when the last data was not received during the first data communication at execution of motion command. | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the error occurs again, save the CMOS.BIN, replace the AIF01 board. and then load the CMOS.BIN previously saved in maintenance mode. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the error occurs again, save the CMOS.BIN, replace the SDCA01 board. |
| | | ACP01 board failure | Turn the power OFF then back ON.<br>If the error occurs again, save the CMOS.BIN, and then replace the ACP01 board. In this case, use the original SD card of the ACP01 board. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An error occurred when the first data was not received during on the way data communication at execution of motion command. | SDCA01 board failure | 1. Reset the alarm.(In case of major alarm, turn the power OFF then back ON.)<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 3 | An error occurred when the first data was not received during the last data communication at execution of motion command. | SDCA01 board failure | 1. Reset the alarm.(In case of major alarm, turn the power OFF then back ON.)<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1651: FILE TRANSFER DATA SIZE ERR (SV)

The data size for the file transfer was over housing size at executing a motion command.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The data size for the file transfer does not agree with the received buffer size. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | Buffer size over | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1652: DB ON ERROR (SERVO)

An attempt was made to turn ON the DB although the base block is released.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1653: BASE BLOCK SIGNAL ERROR(SERVO)

An attempt was made to release the base block although the DB is turned ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Module failure(amplifier) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the amplifier. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1654: PG POWER ON MULTIPLE REQ (SV)

The request to turn ON the PG power supply again was sent to an axis where the PG power was already ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check if the PICK instruction was executed again for the axis where executed the PICK instruction in the gun change system. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1655: CONVERTER COMMAND ERROR (SV)

The source data size does not agree with the destination data size during converter communication control data transmission.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1656: AXIS ENDLESS INFO NOT GENERATED(SV)

An error occurred while the axis endless function was being used.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Check the JOB.<br>2. Turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1657: AXIS ENDLESS SPECIFIC. ERR(SV)

An unusable function was executed for the axis which the deceleration stop alarm function was enabled.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The home position detecting function was used for the axis for which the axis endless function was enabled.<br>The home position detecting function cannot be used for the axis which the axis endless function was enabled. | Setting error | Disable either the axis endless function or the home position detection function of corresponding axis. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

**1657: AXIS ENDLESS SPECIFIC. ERR(SV) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | The servo float function was used for the axis for which the axis endless function was enabled.<br>The servo float function cannot be used for the axis which the axis endless function was enabled. | Setting error | Disable either the axis endless function or the servo float function of corresponding axis. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1658: REDUCTION STOP SPECIFIC. ERR(SV)

An unusable function was executed for the axis for which the deceleration stop alarm function was enabled.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The servo float function was used for the axis for which the deceleration stop function was enabled.<br>The servo float function cannot be used for the axis which the deceleration stop function was enabled. | Setting error | 1. Check the JOB.<br>2. Turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | The specified axis speed control function was executed for the axis which the deceleration stop function was enabled.<br>Specified axis speed control function cannot be used for the axis which the deceleration stop function was enabled. | Setting error | 1. Check the JOB.<br>2. Turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1659: MOTOR GUN CHANGE PG PWR ON ERR(SV)

The PG power supply of the axis for gun change is already ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Check if the PICK instruction was executed again for the axis where executed the PICK instruction in the gun change system.<br>2. Turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1660: MOTOR GUN CHANGE SV ON ERR(SV)

The servo power supply of the axis for gun change is already ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Check if the PICK instruction was executed again for the axis where executed the PICK instruction in the gun change system.<br>2. Turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1661: MOTOR GUN COND. FILE NO. ERR(SV)

The gun number allocated to the specified physical axis is different from the specified gun condition file number.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | File setting error | 1. Check the gun condition file.<br>2. Turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1662: MOTOR GUN PRESS FILE NO. ERR(SV)

The gun pressure file number is incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Check the JOB.<br>2. Turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1663: WRONG MOTOR GUN PRESS AXIS (SV)

The axis specified for gun pressure is not a gun axis.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | File setting error | 1. Check the gun condition file.<br>2. Turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1665: MICRO PROGRAM SYNC. ERROR (SV)

Synchronizing error was detected in the servo CPU.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was detected between PV and host.(PV to host) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01 board-CN515/516<br>• AIF01 board-CN111<br>3. Using the coordinated system, check the connection and insertion of the following cables and connectors for the slave manipulator.<br>• SDCA01 board-CN509<br>• CPS01K* unit-CN155 |
| | | CPS01K* unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following unit for the slave manipulator of the coordinate system.<br>• CPS01K* unit |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | An error was detected between PV and host. (host to PV) | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01 board-CN515/516<br>• AIF01 board-CN111<br>3. Using the coordinated system,check the connection and insertion of the following cables and connectors for the slave manipulator.<br>• SDCA01 board-CN509<br>• CPS01K* unit-CN155 |
| | | CPS01K* unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following unit for the slave manipulator of the coordinate system.<br>• CPS01K* unit |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1666: FILE RECEIVE INCOMPLETE (SERVO)

An attempt was made to execute a function which use the file, the transfer file was not successfully completed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Subcode means error cause. | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1667: RESOLUTION CONVERSE CONST ERR(SV)

A logical error occurred in the parameter for modification of resolution which was calculated by the parameter specified by CMOS.BIN.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1672: GRP CHANGE PG POWER ON ERR (SV)

The PG power supply of the axis for group change is already ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | 1. Check the JOB.<br>2. Turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1673: GRP CHANGE SERVO ON ERROR (SV)

The PG power supply of the axis for change is already ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | 1. Check the JOB.<br>2. Turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1674: ARM CONTROL SEQUENCE ERR (SV)

An error occurred in the motor control mode switching process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1675: BASE BLOCK READ SIGNAL ERR (SV)

The status setting to base block is different from that of base block signal reading from JL056. (The lowest digit shows the axis No.)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1676: BASE BLOCK WRITE SIGNAL ERR (SV)

The status setting to base block is different from that of base block signal writing to JL056. (The lowest digit shows the axis No.)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1678: MOTOR CMD POSITION ERROR (SV)

The motor command position is incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1679: BRAKE POWER ERROR(12V)

The fuse is blown in brake unit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Fuse failure | Replace the SDCA01 fuse. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN543, CN544<br>• CPS01K*-CN153(+26V3)<br>• Power supply for brake unit |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1680: GENERAL I/O FUSE BROWN(SV)

The fuse is blown in SDCA01.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1681: BRAKE POWER ERROR

An error occurred in the power supply in the brake unit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN543, CN544<br>• CPS01K*-CN153(+26V3)<br>• Power supply for brake unit |
| | | Short circuit or ground fault | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>Check the insertion, connection, Short circuit or ground fault of the followings.<br>• IM-YE250/5-80P-CN220(61,62,70,71,77,78 : 24VAX)<br>• IM-YE250/5-80P-CN220(63,64,72,73 : 024V2)<br>• AIO-CN306,CN307,CN308,CN309 |

**1681: BRAKE POWER ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1682: EXTERNAL BRAKE POWER ERROR

An error occurred in the external axis brake power supply for brake unit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN543, CN544<br>• CPS01K*-CN153(+26V3)<br>• Power supply for brake unit |
| | | Short circuit or ground fault | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>Check the insertion, connection, Short circuit or ground fault of the followings.<br>• IM-YE250/5-80P-CN220(61,62,70,71,77,78 : 24VAX)<br>• IM-YE250/5-80P-CN220(63,64,72,73 : 024V2)<br>• AIO-CN306,CN307,CN308,CN309 |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1683: DC 24V POWER SUPPLY FAILURE(SV)

An error was detected in the voltage value of the CPS01K* unit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Short circuit or ground fault | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the brake connection if there is a ground fault or short circuit. |
| | | CPS01K* unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the CPS01K* unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1684: INSTANT POWER FAILURE(TRQ)(SV)

The instant power failure occurred and then the torque was saturated.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The instant power failure occurred and then the torque was saturated. | Voltage failure | 1. Check if the primary power supply voltage is dropping.<br>2. Turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1685: INSTANT POWER FAILURE(TIME)(SV)

The instant power failure occurred for longer than the certain time period.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The instant power failure occurred for longer than the certain time period. | Voltage failure | 1. Check if the primary power supply voltage is dropping.<br>2. Turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1686: POS.DEVITATION SATURATING ERR(SV)

The deviation of the position reaches the soft limit position.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for manipulator motion condition (influence by external force, load condition). |
| | | Connection failure | Check if a ground fault has not occurred in the U-, V-, and W-phase of motor power line, or short circuit has not occurred between these phases. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN501<br>• SDCA01-CN531, CN532, CN533<br>• Inverter board-CN571<br>• SDB(External axis servo pack)-CN591 |
| | | Module failure(amplifier) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the amplifier. |
| | | Module failure(motor) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1687: COORDINATED STOP FUNC. DISABLE

The function parameter is specified for the system for which it cannot be applied.
This function is applicable only for the system with two manipulators (with two SDCA01 boards).

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1688: MEMORY DATA FILE STORAGE ERROR

The model file is not saved nomally.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Storage file number is inconsistent | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | Start index is inconsistent | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1690: PCI BOARD NOT DETECTED

AD board conection error

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AD board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1691: FORCE SENSOR BOARD UNMOUNTED

Force sensor board is not mounted.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Force sensor board could not be found | Force sensor board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1692: PG POWER FUSE BLOWN(SV)

The fuse is blown in SDCA01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Fuse failure | 1. Check the SDCA01 board fuse(F1).<br>2. If the F1fuse is blown, remove the cause, such as a cable error, replace the SDCA01 board fuse(F1), and then turn on the power again. |
| | | Connection failure | Check if there is no cable disconnection, and a ground fault of the following cables.<br>[Robot axis]<br>• Cable between encoders and SDCA01-CN508<br>[External axis]<br>• Cable between encoders and SDCA01-CN534, CN535, CN536 |
| | | Encorder power board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the encorder power board. |
| | | SDCA01 board failure | 1. Check the SDCA01 board fuse(F1).<br>2. If the F1fuse is not blown, turn the power OFF then back ON and then check that no alarm occurs again. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1693: UNDEFINED MOTOR GUN ARM CONTROL

The spot high speed function is enabled despite the invalid status of GUN ARM CONTROL function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the control group in which the alarm occurred | Setting error | The spot high speed function is enabled despite the invalid status of GUN ARM CONTROL function.<br>Please complete the setting of GUN ARM CONTROL as the following operations.<br>1. start the system in maintenance mode.<br>2. change the security to management mode.<br>3. select [SYSTEM] ->[SETUP] ->[OPTION FUNCTION] -> [GUN ARM CONTROL].<br>4. change the mode to PLAYBACK, then push [EXECUTE].<br>5. set the [INERTIA] and [FREQ].<br>6. select [ENABLE] , after the setting the [INERTIA] and [FREQ]. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1694: GROUND FAULT(BRAKE LINE)

The brake connection is a ground fault or short circuit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Short circuit or ground fault | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the brake connection if there is a ground fault or short circuit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1695: DC 24V POWER SUPPLY FAILURE(SV)

An error was detected in the voltage value of the CPS01K* unit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | CPS01K* unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the CPS01K* unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1696: F-SAFE ENCODER DIAG.EROOR

The ASF01 board has detected the encoder diagnosis error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01-CN508<br>[External axis]<br>• Cable between encoders<br>• SDCA01-CN534, CN535, CN536<br>[Using external force monitoring board ASF04]<br>• ASF04 board-CN231,CN232,CN235,CN236,CN237,CN238<br>• CPS01K* unit-CN156 |
| | | Module failure(encoder) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the encoder. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Setting error | Check the parameter setting value. |

**1696: F-SAFE ENCODER DIAG.EROOR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF04 board failure | If ASF04 board is used, need to confirm the following.<br>1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1860: M-SAFETY COMMUNICATE ERROR

The communication error occurred between the ACP01 and the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | There was no response from ASF01 board within the time limit. | Connection failure | Check the connection and insertion of the following boards.<br>• ACP01 board<br>• AIF01 board<br>• ASF01 board |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board.<br>After replacing the board, remove the SD card that has been inserted into the ACP01to be removed, insert it the new ACP01. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | The reset of Machine-Safety alarm was not properly completed. | Connection failure | Check the connection and insertion of the following boards.<br>• ACP01 board<br>• AIF01 board<br>• ASF01 board |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board.<br>After replacing the board, remove the SD card that has been inserted into the ACP01 to be removed, insert it the new ACP01. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**1860: M-SAFETY COMMUNICATE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Calculation results do not match the receive data. | Connection failure | Check the connection and insertion of the following boards.<br>• ACP01 board<br>• AIF01 board<br>• ASF01 board |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board.<br>After replacing the board, remove the SD card that has been inserted into the ACP01to be removed, insert it the new ACP01. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1861: M-SAF SYSTEM ERROR

An error occurred in a process of Machine-Safety system.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub code indicates where the error occurred. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1862: M-SAF VERSION UP ERROR

An error is detected in the update process of Machine-Safety software.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error is detected in the update process of Machine-Safety software. | Hardware failure | Please try the software update again. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1863: M-SAF SETUP ERROR

The parameter setting do not match to system configuration setting.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The parameter setting is incorrect. | Setting error | Please re-configure the setting of the control group in maintenance mode. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Parameter setting does not match the number of ASF01 boards. | Setting error | In maintenance mode, check that the control group setting is appropriate for the system. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The parameter setting is incorrect. | Setting error | In the control group setting window of maintenance mode, check that the following items are appropriate for the system configuration.<br>1. In case of STO connection:<br>• Servo board which connects to each control group<br>• The number of axis which connects to connector of each servo board<br>• Contactor unit which connects the brake<br>• Converter which connects the axis<br>• ON_ENABLE signal (or TU)which connects to each control group<br>• The setting of overrun signal<br>2. In case of Contactor connection:<br>• Servo board which connects to each control group.<br>• The number of axis which connects to connector of each servo board<br>• Axis number to be connected to the connector of the servo board<br>• Converter which connects the axis<br>• Contactor unit which connects the brake<br>• The setting of overrun signal |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | The CRC data which calculated do not accord with CRC data saved away by Flash Rom. | Setting error | If the alarm occurs again, Select the following menu.<br>• Start up maintenance mode.<br>• Change to the safety mode security.<br>• Select [Safety Board FLASH Reset] by going to [INITIALIZE] form [FILE] in the main menu.<br>• Turn the power OFF then back ON. |

**1863: M-SAF SETUP ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | The CRC data which calculated do not accord with CRC data saved in a parameter. | Setting error | If the alarm occurs again, Select the following menu.<br>• Start up maintenance mode.<br>• Change to the safety mode security.<br>• Select [Safety Board FLASH Reset] by going to [INITIALIZE] form [FILE] in the main menu.<br>• Turn the power OFF then back ON. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | The calculated CRC data are not accord with the CRC data that is saved in FlashRom. In addition, both the CRC data that is saved in the parameter does not match. | Setting error | If the alarm occurs again, Select the following menu.<br>• Start up maintenance mode.<br>• Change to the safety mode security.<br>• Select [Safety Board FLASH Reset] by going to [INITIALIZE] form [FILE] in the main menu.<br>• Turn the power OFF then back ON. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000 | The ASF01 board revision is not correct. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board(#1). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001 | The ASF01 board revision is not correct. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board(#2). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1002 | The ASF01 board revision is not correct. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board(#3). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1003 | The ASF01 board revision is not correct. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board(#4). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1004 | The ASF01 board revision is not correct. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board(#5). |

**1863: M-SAF SETUP ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1005 | The ASF01 board revision is not correct. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board(#6). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1006 | The ASF01 board revision is not correct. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board(#7). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1007 | The ASF01 board revision is not correct. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board(#8). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010 | The firmware of ASF01 is not correct. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board(#1). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1011 | The firmware of ASF01 is not correct. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board(#2). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1012 | The firmware of ASF01 is not correct. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board(#3). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1013 | The firmware of ASF01 is not correct. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board(#4). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1014 | The firmware of ASF01 is not correct. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board(#5). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1015 | The firmware of ASF01 is not correct. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board(#6). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1863: M-SAF SETUP ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1016 | The firmware of ASF01 is not correct. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board(#7). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1017 | The firmware of ASF01 is not correct. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board(#8). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000 | The error of rotary switch setting is detected in ASF01. | Setting error | 1. Select the following menu.<br>• [File]-[Initialize],[Safety Board FLASH Reset]<br>2. Turn the power OFF then back ON. |
| | | Setting error | Check the rotary switch of ASF01(#1-8) |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1864: M-SAF CPU BOARD COMM ERRO

The communication error occurred between the Machine-Safety and the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | There was no response from ASF01 board within the time limit. | Connection failure | Check the connection and insertion of the following boards.<br>• ACP01 board<br>• AIF01 board<br>• ASF01 board |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board.<br>After replacing the board, remove the SD CARD that has been inserted into the ACP01 to be removed, insert it the new ACP01 |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Calculation results do not match the receive data. | Connection failure | Check the connection and insertion of the following boards.<br>• ACP01 board<br>• AIF01 board<br>• ASF01 board |

**1864: M-SAF CPU BOARD COMM ERRO (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board.<br>After replacing the board, remove the SD CARD that has been inserted into the ACP01 to be removed, insert it the new ACP01. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Calculation results do not match the receive data on a logical circuit. | Connection failure | Check the connection and insertion of the following boards.<br>• ACP01 board<br>• AIF01 board<br>• ASF01 board |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board.<br>After replacing the board, remove the SD CARD that has been inserted into the ACP01 to be removed, insert it the new ACP01. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Here was no response from ACP01 board within the time limit. | Connection failure | Check the connection and insertion of the following boards.<br>• ACP01 board<br>• AIF01 board<br>• ASF01 board |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board.<br>After replacing the board, remove the SD CARD that has been inserted into the ACP01 to be removed, insert it the new ACP01. |

**1864: M-SAF CPU BOARD COMM ERRO (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1865: M-SAF CPU COMM ERROR

The communication error was detected at Machine Safety Software.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Incorrect data was detected on communication between ASF01s. | Connection failure | Check the connection between ASF01 boards.(CN201/CN202) |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Communication error was detected (ASF01 - ASF01). | Connection failure | Check the connection between ASF01 boards.(CN201/CN202) |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Communication error was detected (ASF01 - ASF01). | Connection failure | Check the connection between ASF01 boards.(CN201/CN202) |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Communication error was detected (ASF01 - ASF01). | Connection failure | Check the connection between ASF01 boards.(CN201/CN202) |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Communication error was detected (ASF01 - ASF01). | Connection failure | Check the connection between ASF01 boards.(CN201/CN202) |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |

**1865: M-SAF CPU COMM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Communication error was detected (ASF01 - ASF01). | Connection failure | Check the connection between ASF01 boards.(CN201/CN202) |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Incorrect data was detected on communication between ASF01 and ASF04. | Connection failure | Check the connection and insertion of the following boards.<br>• ASF01(CN239/240) and cable.<br>• SDCA01(CN515/516) and cable.<br>• AIF01(CN111) and cable. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board.<br>After replacing the board, remove the SD CARD that has been inserted into the ACP01 to be removed, insert it the new ACP01. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | Communication error was detected (ASF01 - ASF04). | Connection failure | Check the connection and insertion of the following boards.<br>• ASF01(CN239/240) and cable.<br>• SDCA01(CN515/516) and cable.<br>• AIF01(CN111) and cable. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board.<br>After replacing the board, remove the SD CARD that has been inserted into the ACP01 to be removed, insert it the new ACP01. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**1865: M-SAF CPU COMM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | Incorrect data was detected on communication between ASF01 and ASF04. | Connection failure | Check the connection and insertion of the following boards.<br>• ASF01(CN239/240) and cable.<br>• SDCA01(CN515/516) and cable.<br>• AIF01(CN111) and cable. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board.<br>After replacing the board, remove the SD CARD that has been inserted into the ACP01 to be removed, insert it the new ACP01. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | Incorrect data was detected on communication between ASF01 and ASF04. | Connection failure | Check the connection and insertion of the following boards.<br>• ASF01(CN239/240) and cable.<br>• SDCA01(CN515/516) and cable.<br>• AIF01(CN111) and cable. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board.<br>After replacing the board, remove the SD CARD that has been inserted into the ACP01 to be removed, insert it the new ACP01. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1865: M-SAF CPU COMM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 14 | Communication error was detected (ASF01 - ASF04). | Connection failure | Check the connection and insertion of the following boards.<br>• ASF04 board connector : CN231/232 cable<br>• ASF04 board connector : CN239/240 cable<br>• AIF01 board connector : CN113 cable<br>• CPS01K* unit connector : CN156 cable |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board.<br>After replacing the board, remove the SD CARD that has been inserted into the ACP01 to be removed, insert it the new ACP01. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | Communication error was detected (ASF01 - ASF04). | Connection failure | Check the connection and insertion of the following boards.<br>• ASF01(CN239/240) and cable.<br>• SDCA01(CN515/516) and cable.<br>• AIF01(CN111) and cable. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board.<br>After replacing the board, remove the SD CARD that has been inserted into the ACP01 to be removed, insert it the new ACP01. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 101 | Communication error was detected (ASF01 - SDCA01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. |

**1865: M-SAF CPU COMM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 102 | Incorrect data was detected on communication between ASF01 and ACP01. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board.<br>After replacing the board, remove the SD CARD that has been inserted into the ACP01 to be removed, insert it the new ACP01. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 103 | Incorrect data was detected on communication between ASF01 and ACP01. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board.<br>After replacing the board, remove the SD CARD that has been inserted into the ACP01 to be removed, insert it the new ACP01. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 202 | Incorrect communication data was detected on ASF01. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 203 | Incorrect communication data was detected on ASF01. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 204 | Incorrect communication data was detected on ASF01. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 205 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 206 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1865: M-SAF CPU COMM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 207 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 300 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 301 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 302 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 303 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 304 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 305 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 306 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 307 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 310 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |

**1865: M-SAF CPU COMM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 311 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 312 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 313 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 314 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 315 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 316 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 317 | Communication error was detected (ASF01). | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1866: M-SAF F-SAFETY COMM ERROR

The communication error is detected between the M-SAF and the F-SAF.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Function Safety did not come by an online mode. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1866: M-SAF F-SAFETY COMM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | Machine Safety received an offline command. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | There was no response from Function Safety with in the time limit. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Machine Safety was not able to detect the first of the sequential number. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Machine Safety detected CRC error. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Machine Safety detected sequential number error. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Machine Safety was not able to connect with Function Safety in start up process. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Here was no response from Function Safety board within the time limit. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | Here was no response from (Function Safety board within the time limit. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1867: M-SAF ROM DIAG. ERROR

An error is detected in the ROM diagnosis function of Machine Safety.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error is detected in the ROM diagnosis function of Machine Safety. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | An error is detected in the ROM diagnosis function of Machine Safety. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An error is detected in the ROM diagnosis function of Machine Safety. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1868: M-SAF RAM DIAG. ERROR

An error is detected in the RAM diagnosis function of Machine Safety.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Machine Safety software detected failure with RAM diagnosis function of Machine Safety. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1869: M-SAF STACK DIAG. ERROR

An error is detected in the stack diagnosis function of Machine Safety.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error is detected in the stack diagnosis function of Machine Safety. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An error is detected in the stack diagnosis function of Machine Safety. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1869: M-SAF STACK DIAG. ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3 | An error is detected in the stack diagnosis function of Machine Safety. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | An error is detected in the stack diagnosis function of Machine Safety. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | An error is detected in the stack diagnosis function of Machine Safety. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | An error is detected in the stack diagnosis function of Machine Safety. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | An error is detected in the stack diagnosis function of Machine Safety. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | An error is detected in the stack diagnosis function of Machine Safety. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | An error is detected in the stack diagnosis function of Machine Safety. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | An error is detected in the stack diagnosis function of Machine Safety. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1870: M-SAF REGISTER DIAG. ERROR

An error is detected in the register diagnosis function of Machine-Safety.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1000 | An error is detected in the register diagnosis function of Machine Safety. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1871: M-SAF SEQUENCE WATCH ERROR

Sequence diagnosis function of Machine Safety board detected a failure.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Subcode means error data. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1872: M-SAF WATCHDOG ERROR

An error is detected in the watch dog check of Machine Safety.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 101 | CPU1of ASF01 detected an error in start up process. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 102 | CPU1of ASF01 detected an error of itself. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 103 | CPU1of ASF01 detected an error of CPU2. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 104 | CPU1of ASF01 detected an error of CPU2 in start up process. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 201 | CPU2of ASF01 detected an error in start up process. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |

**1872: M-SAF WATCHDOG ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 202 | CPU2of ASF01 detected an error of CPU1. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 203 | CPU2of ASF01 detected an error of CPU1. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 204 | CPU2of ASF01 detected an error of CPU1 in start up process. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1873: M-SAF OFFLINE MODE SETUP ERROR

The parameter setting error is detected in offline mode of Machine Safety.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Please re-configure the setting of the control group in maintenance mode. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1874: M-SAF VOLTAGE WATCH ERROR

An error is detected in process to check the voltage of the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The CPU1 of ASF01 board has detected an illegal voltage of the CPU2.<br>The number indicates as CPU which detected error, surveillance voltage, and 0001 or 0002 value.<br>0001:Over voltage<br>0002:Low voltage | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1875: M-SAF I/O BOARD VOLTAGE ERROR

An error is detected in process to check the voltage of the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | subcode:<br>CPU1 1:CPU1 detected a 5V low voltage<br>CPU1 2:CPU1 detected a 5V high voltage<br>CPU1 3:CPU1 detected a 24V low voltage<br>CPU1 4:CPU1 detected a 24V high voltage<br>CPU1 5:CPU1 detected a voltage error in 24V power of the board.<br>CPU2 1:CPU2 detected a 5V low voltage<br>CPU2 2:CPU2 detected a 5V high voltage<br>CPU2 3:CPU2 detected a 24V low voltage<br>CPU2 4:CPU2 detected a 24V high voltage<br>CPU2 5:CPU2 detected a voltage error in 24V power of the board. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1876: M-SAF I/O BOARD WATCHDOG ERROR

Watchdog error is detected in the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 101 | An error was detected in startup process by CPU1 of ASF01 board. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 102 | An error in CPU1 of ASF01 board was detected by CPU1 of ASF01 board. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 103 | An error in CPU2 of ASF01 board was detected by CPU1 of ASF01 board. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**1876: M-SAF I/O BOARD WATCHDOG ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 104 | An error in CPU2 of ASF01 board was detected for a definite period of time by CPU1 of ASF01 board. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 201 | An error of ASF01 board was detected in startup process by CPU2 of ASF01 board. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 202 | An error in CPU1 of ASF01 board was detected by CPU2 of ASF01 board. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 203 | An error in CPU2 of ASF01 board was detected by CPU2 of ASF01 board. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 204 | An error in CPU2 of ASF01 board was detected for a definite period of time by CPU2 of ASF01 board. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1877: F-SAF I/O BOARD NOT INSTALLED

ASF02 board or ASU03 unit was not able to be detected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, confirm the following cable's connection and insertion.<br>• ASF01 board connector : CN208 cable<br>• ASF02 board connector : CN221 cable<br>• ASU03 unit connector : CN221 cable |
| | | ASF02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF02 board. |
| | | ASU03 unit failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASU03 unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 1878: M-SAF VOLTAGE WATCH ERROR2

An error is detected in process to check the voltage of the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | subcode:<br>cause of alarm<br>(cause)<br>0.75 V out of range.<br>1.1 V out of range.<br>1.5 V out of range.<br>1.8 V out of range.<br>2.5 V out of range.<br>3.3 V out of range.<br>2.048V out of range.<br>24V1 out of range.<br>24V2 out of range. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1879: M-SAF OPECODE ERROR

The ASF01 board has detected OPCODE diagnosis error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1887: F-SAFE RAM DIAG. ERROR(RD ADDR)

The ASF01 board has detected RAM diagnosis error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1888: F-SAFE RAM DIAG. ERROR(WT ADDR)

The ASF01 board has detected RAM diagnosis error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1889: F-SAFE OPCODE DIAG. ERROR

The ASF01 board has detected OPCODE diagnosis error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1890: F-SAFE M-SAFETY COMM ERROR

The communication error occurred between the ASF01 and the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Machine safety did not come by an online mode. | Setting error | Confirm that the rotary switch on the ASF01[#1-8] board is set to [0-7]. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | Functional safety received an offline command. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 3 | There was no response from machine safety board with in the time limit. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 4 | Functional safety board was not able to detect the first of the sequential number. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**1890: F-SAFE M-SAFETY COMM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 5 | Functional safety board detected CRC error. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 6 | Functional safety board detected sequential number error. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 7 | Interrupt signal does not occur from the machine safety board. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 8 | Communication data error of Machine Safety was detected. (Running number over) | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 9 | Communication data error of Machine Safety was detected. (Running number don't change) | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 10 | Communication data of CPU1 and CPU2 is mismatch. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 11 | Allocation requests of safety field bus signal is abnormal. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 12 | The error of JL098 communication data was detected. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**1890: F-SAFE M-SAFETY COMM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 14 | The communication error is detected in the ASF01 board. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1891: F-SAFE OUTPUT SIGNAL UNMATCH

Output data from CPU1 and CPU2 is mismatch.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1892: F-SAFE COND FILE SETTING ERR

The ASF01 board has detected the condition file abnormality.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Indicates the type of condition file abnormality occurs.<br>0:Axis range limit function<br>1:Axis speed monitor function<br>2:Speed limit function<br>3:Robot range limit function<br>4:Tool angle monitor function<br>5:Tool change monitor function | Setting error | Check condition file that is indicated in the sub code is set correctly. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1894: F-SAFE STACK DIAG. ERROR

The ASF01 board has detected stack diagnosis error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1895: F-SAFE REGISTER DIAG. ERROR

The ASF01 board has detected register diagnosis error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1896: F-SAFE SEQUENCE WATCH ERROR

The ASF01 board has detected sequence monitor error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1897: F-SAFE WATCHDOG ERROR

The ASF01 board has detected watchdog monitor error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1898: F-SAFE ENCODER SELECT ERROR

The Change of encoder communication of Function Safety ERROR was detected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1899: F-SAFE MONITOR EXECUTE TIME OVER

The diagnosis processing of Function Safety was not completed in the definite time.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Reduce the condition file. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1920: SYSTEM ERROR(PFL)

Process is not performed properly on the ASF04 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• ASF04 board-CN235,CN236,CN237,CN238 |
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1922: CPU COMMUNICATION ERROR(PFL)

Communication error is happened between ACP01 board and ASF04 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection error | Confirm the connection and insertion of following boards.<br>• ACP01 board<br>• ASF04 board |
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD card from the failure ACP01 board to insert it into the new ACP01 board. |

## ◆ 1923: TORQUE MUTUAL DIAG. ERR(PFL)

Difference of Calculated external force torque result exceeds the threshold on ASF04 board's duplex CPU.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Torque sensor failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1924: FORCE MUTUAL DIAG. ERR(PFL)

Difference of calculated external force result exceeds threshold on ASF04 board's duplex CPU.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the direction in which the alarm occurred | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Torque sensor failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1925: TRQ SENSOR SENDING ERROR

An error occurred in the torque sensor communication.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1926: TRQ SENSOR RECEIVING ERROR

An error occurred in the torque sensor communication.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• ASF04 board-CN231,CN232,CN233,CN234<br>• CPS01K* unit-CN156<br>• Torque sensor cable between controller robots<br>• Torque sensor cable which is stored in the robot |
| | | Power board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the power board of torque sensor. |
| | | Torque sensor failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| | | Fuse failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again and fuse melting is occurred on the ASF04 board-CN232 cable, remove the abnormal causes and replace the fuse. After that, turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1927: TRQ SENSOR AXIS NUMBER ERROR

An error occurred in the torque sensor communication.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Torque sensor failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1928: TRQ SENSOR SEQ.NUMBER ERROR

An error occurred in the torque sensor communication.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Torque sensor failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1929: TRQ SENSOR CRC ERROR

An error occurred in the torque sensor communication.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Torque sensor failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1930: SYSTEM ERROR1(PFL)

Process is not performed properly on the ASF04 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |

## ◆ 1931: ARITHMETIC ERROR(PFL)

Process is not performed properly on the ASF04 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |

## ◆ 1932: ENCODER COMM. ERR(PFL)

ASF04 board's encoder communication error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• ASF04 board-CN235,CN236,CN237,CN238 |
| | | ASF04 board failure | If ASF04 board is used, confirm the following.<br>1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1933: ENCODER CORR. NUM OVER(PFL)

ASF04 board monitors position information of encoder. If communication error is occurred at any control period, monitor it which is based on the previous position data. And then, calibration data is checked, and if threshold is exceeded, alarm is happened.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• ASF04 board-CN235,CN236,CN237,CN238<br>3. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1934: ROM DIAGNOSIS ERROR(PFL)

ASF04 board's ROM diagnostics function detects error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1935: RAM DIAGNOSIS ERROR(PFL)

ASF04 board's RAM diagnostics function detects error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1936: RAM DIAG. READ ERROR(PFL)

ASF04 board's RAM diagnostics function detects error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1937: RAM DIAG. WRITE ERROR(PFL)

ASF04 board's RAM diagnostics function detects error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1938: REGISTER DIAG. ERROR(PFL)

ASF04 board's Register diagnostics function detects error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1939: STACK DIAG ERROR(PFL)

ASF04 board's Stack diagnostics function detects error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1940: SEQUENCE DIAG. ERROR(PFL)

ASF04 board's Sequence diagnostics function detects error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1941: WATCHDOG ERROR(PFL)

ASF04 board's Watch-dog monitoring function detects error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1942: VOLTAGE WATCH ERROR(PFL)

ASF04 board's voltage monitoring function detects error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1943: OPCODE DIAG. ERROR(PFL)

ASF04 board's Opcode diagnostics function detects error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1944: TOOL NUMBER ERROR(PFL)

Tool change monitoring function's tool number and PFL board's tool number is not same.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code:Setting file number | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | ASF04 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |

## ◆ 1945: TRQ SENSOR ERROR

Detect torque sensor error

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Subcode means error cause.<br>12: ROM error<br>14: Voltage error<br>15: Temperature error | Torque sensor failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 1946: API ERROR(PFL)

Detect API(PFL) error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If subcode from 3000 to 3999, confirm the specification of MotoPlus App you installed.<br>3. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

YRC1000

# ALARM CODES
## (MAJOR ALARMS)



YASKAWA

YASKAWA ELECTRIC CORPORATION

MANUAL NO. RE-CER-A600 ⑤
August 2021 16-09
MAJOR ALARMS

YASKAWA

YRC1000

# ALARM CODES
# (MINOR ALARMS)

- Upon receipt of the product and prior to initial operation, read these instructions thoroughly, and retain for future reference.
- This instruction consists of “MAJOR ALARMS” version and “MINOR ALARMS” version.

MOTOMAN INSTRUCTIONS

MOTOMAN-□□□ INSTRUCTIONS
YRC1000 INSTRUCTIONS
YRC1000 OPERATOR’S MANUAL (GENERAL) (SUBJECT SPECIFIC)
YRC1000 MAINTENANCE MANUAL
YRC1000 ALARM CODES (MAJOR ALARMS) (MINOR ALARMS)

MANUAL NO. RE-CER-A600 ◇5
MINOR ALARMS

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# Table of Contents

# i

# About This Manual

# i.1 Notes for Safe Operation

**⚠DANGER**

**This manual explains the ALARM CODES of the YRC1000 system. Read this manual carefully and be sure to understand its contents before handling this product. Any matter not described in this manual must be regarded as “prohibited” or “improper”.**
**General information related to safety are described in “Chapter 1. Safety” of the YRC1000 INSTRUCTIONS. To ensure correct and safe operation, carefully read “Chapter 1. Safety” of the INSTRUCTIONS.**

**⚠CAUTION**

**In some drawings in this manual, protective covers or shields are removed to show details. Make sure that all the covers or shields are installed in place before operating this product. YASKAWA is not responsible for incidents arising from unauthorized modification of its products. Unauthorized modification voids the product warranty.**

**NOTICE**

**The drawings and photos in this manual are representative examples and differences may exist between them and the delivered product.**
**YASKAWA may modify this model without notice when necessary due to product improvements, modifications, or changes in specifications. If such modification is made, the manual number will also be revised.**
**If your copy of the manual is damaged or lost, contact a YASKAWA representative to order a new copy. Be sure to tell the representative the manual number listed on the front cover.**

## ◆ Safety Information

Read this manual carefully before installation, operation, maintenance, or inspection of this product.
In this manual, the Notes for Safe Operation are classified as “DANGER”, “WARNING”, “CAUTION”, or “NOTICE”.

**⚠DANGER**

**Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. Safety Signs identified by the signal word DANGER should be used sparingly and only for those situations presenting the most serious hazards.**

**⚠WARNING**

**Indicates a potentially hazardous situation which, if not avoided, will result in death or serious injury. Hazards identified by the signal word WARNING present a lesser degree of risk of injury or death than those identified by the signal word DANGER.**

**⚠CAUTION**

**Indicates a hazardous situation, which if not avoided, could result in minor or moderate injury. It may also be used without the safety alert symbol as an alternative to “NOTICE”.**

**NOTICE**

**NOTICE is the preferred signal word to address practices not related to personal injury. The safety alert symbol should not be used with this signal word. As an alternative to “NOTICE”, the word “CAUTION” without the safety alert symbol may be used to indicate a message not related to personal injury.**

Even items described as “CAUTION” may result in a serious accident in some situations. At any rate, be sure to follow these important items.

## ◆ Safety Precautions That Must Always Be Observed

**⚠DANGER**

**Before operating the manipulator, make sure the servo power is turned OFF by performing the following operations. When the servo power is turned OFF, the SERVO ON LED on the programming pendant is turned OFF.**

- **Press the emergency stop buttons on the front door of the YRC1000, on the programming pendant, on the external control device, etc.**
- **Disconnect the safety plug of the safety fence. (when in the play mode or in the remote mode)**

If operation of the manipulator cannot be stopped in an emergency, personal injury and/or equipment damage may result.

<Emergency Stop Button>

**Before releasing the emergency stop, make sure to remove the obstacle or error caused the emergency stop, if any, and then turn the servo power ON.**

Failure to observe this instruction may cause unintended movement of the manipulator, which may result in personal injury.

<Release of Emergency Stop>


**Observe the following precautions when performing a teaching operation within the manipulator's operating range:**

- **Be sure to perform lockout by putting a lockout device on the safety fence when going into the area enclosed by the safety fence. In addition, the operator of the teaching operation must display the sign that the operation is being performed so that no other person closes the safety fence.**
- **View the manipulator from the front whenever possible.**
- **Always follow the predetermined operating procedure.**
- **Always keep in mind emergency response measures against the manipulator’s unexpected movement toward a person.**
- **Ensure a safe place to retreat in case of emergency.**

Failure to observe this instruction may cause improper or unintended movement of the manipulator, which may result in personal injury.

## ⚠DANGER

**Confirm that no person is present in the manipulator's operating range and that the operator is in a safe location before:**

- **Turning ON the YRC1000 power**
- **Moving the manipulator by using the programming pendant**
- **Running the system in the check mode**
- **Performing automatic operations**

Personal injury may result if a person enters the manipulator's operating range during operation. Immediately press an emergency stop button whenever there is a problem.
The emergency stop buttons are located on the front panel of the YRC1000 and on the upper right of the programming pendant.

**Read and understand the Explanation of the Warning Labels before operating the manipulator.**

## ⚠WARNING

**Perform the following inspection procedures prior to conducting manipulator teaching. If there is any problem, immediately take necessary steps to solve it, such as maintenance and repair.**

- **Check for a problem in manipulator movement.**
- **Check for damage to insulation and sheathing of external wires.**

**Always return the programming pendant to the hook on the cabinet after use.**
If the programming pendant is left unattended on the manipulator, on a fixture, or on the floor, etc., the Enable Switch may be activated due to surface irregularities of where it is left, and the servo power may be turned ON. In addition, in case the operation of the manipulator starts, the manipulator or the tool may hit the programming pendant left unattended, which may result in personal injury and/or equipment damage.

## ◆ Definition of Terms Used Often in This Manual

The MOTOMAN is the YASKAWA industrial robot product.
The MOTOMAN usually consists of the manipulator, the controller, the programming pendant, and manipulator cables.
In this manual, the equipment is designated as follows.

| Equipment | Manual Designation |
|---|---|
| YRC1000 controller | YRC1000 |
| YRC1000 programming pendant | Programming pendant |
| Cable between the manipulator and the controller | Manipulator cable |

Descriptions of the programming pendant keys, buttons, and displays are shown as follows:

| Equipment | | Manual Designation |
|---|---|---|
| Programming Pendant | Character Keys/Symbol Keys | The keys which have characters or symbols printed on them are denoted with [ ].<br>e.g. [ENTER] |
| | Axis Keys/Numeric Keys | [Axis Key] and [Numeric Key] are generic names for the keys for axis operation and number input. |
| | Keys pressed simultaneously | When two keys are to be pressed simultaneously, the keys are shown with a “+” sign between them, e.g. [SHIFT]+[COORD]. |
| | Mode Switch | Mode Switch can select three kinds of modes that are denoted as follows: REMOTE, PLAY or TEACH.<br>(The switch names are denoted as symbols) |
| | Button | The three buttons on the upper side of the programming pendant are denoted as follows: START, HOLD, or EMERGENCY STOP.<br>(The button names are denoted as symbols) |
| | Displays | The menu displayed in the programming pendant is denoted with { }.<br>e.g. {JOB} |


## ◆ Description of the Operation Procedure

In the explanation of the operation procedure, the expression “Select • • •” means that the cursor is moved to the object item and the [SELECT] is pressed, or that the item is directly selected by touching the screen.

## ◆ Registered Trademark

In this manual, names of companies, corporations, or products are trademarks, registered trademarks, or brand names for each company or corporation.
The indications of (R) and TM are omitted.

# 1

# Alarm List

# 1.1 Alarm Number (4000 to 4999)

## ◆ 4000: MEMORY ERROR(TOOL FILE)

An error was detected at memory check.
The memory for the tool file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Tool number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the tool file in maintenance mode, and then load the tool file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4001: MEMORY ERROR(USER COORD FILE)

An error was detected at memory check.
The memory for the user coordinates file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: User coordinate number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the user coordinates file in maintenance mode, and then load the user coordinates file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4002: MEMORY ERROR(SV MON SIGNAL FILE)

An error was detected at memory check.
The memory for the servo monitor signal file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the servo monitor signal file in maintenance mode, and then load the servo monitor signal file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4003: MEMORY ERROR(WEAVING FILE)

An error was detected at memory check.
The memory for the weaving condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Page number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the weaving condition file in maintenance mode, and then load the weaving condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4004: MEMORY ERROR(HOME POS FILE)

An error was detected at memory check.
The memory for the home positioning file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the home positioning file in maintenance mode, and then load the home positioning file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4005: MEMORY ERROR(SECOND HOME POS)

An error was detected at memory check.
The memory for the second home position file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the second home positioning file in maintenance mode, and then load the second home positioning file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4006: MEMORY ERROR(POWER SOURCE COND)

An error was detected at memory check.
The memory for the arc welding Power Source condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Page number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the arc welding Power Source condition file in maintenance mode, and then load the arc welding Power Source condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4007: MEMORY ERR(ARC START COND FILE)

An error was detected at memory check.
The memory for the arc start condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Page number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the arc start condition file in maintenance mode, and then load the arc start condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4008: MEMORY ERROR(ARC END COND FILE)

An error was detected at memory check.
The memory for the arc end condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Page number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the arc end condition file in maintenance mode, and then load the arc end condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4009: MEMORY ERROR(ARC AUX COND FILE)

An error was detected at memory check.
The memory for the arc auxiliary condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Page number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the arc auxiliary condition file in maintenance mode, and then load the arc auxiliary condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4010: MEMORY ERROR(COM-ARC COND FILE)

An error was detected at memory check.
The memory for the COM-ARC condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Page number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the COM-ARC condition file in maintenance mode, and then load the COM-ARC condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4011: MEMORY ERROR(FILE DATA)

An error was detected at memory check.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 16 | The memory for the tool file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the tool file in maintenance mode, and then load the tool file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | The memory for the user coordinate file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the user coordinate file in maintenance mode, and then load the user coordinate file saved in the external memory device. |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 39 | The memory for the robot calibration file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the robot calibration file in maintenance mode, and then load the robot calibration file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 69 | The memory for the conveyor calibration file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the conveyor calibration file in maintenance mode, and then load the conveyor calibration file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 136 | The memory for the liner up file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the liner up file in maintenance mode, and then load the liner up file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 230 | The memory for the gun detail setting file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the gun detail setting file in maintenance mode, and then load the gun detail setting file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 231 | The memory for the spot management file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the spot management file in maintenance mode, and then load the spot management file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 232 | The memory for the spot welder I/F file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the spot welder I/F file in maintenance mode, and then load the spot welder I/F file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 233 | The memory for the manual press condition file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the manual press condition file in maintenance mode, and then load the manual press condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 240 | The memory for the wear detection base position file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the wear detection base position file in maintenance mode, and then load the wear detection base position file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 243 | The memory for the learning control I/O allocation file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the learning control I/O allocation file in maintenance mode, and then load the learning control I/O allocation file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 249 | The memory for the paint system file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the paint system file in maintenance mode, and then load the paint system file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 250 | The memory for the paint special file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the paint special file in maintenance mode, and then load the paint special file saved in the external memory device. |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 251 | The memory for the paint condition file(gun1) is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the paint condition file in maintenance mode, and then load the paint condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 252 | The memory for the paint condition file(gun2) is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the paint condition file in maintenance mode, and then load the paint condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 253 | The memory for the paint condition file(gun3) is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the paint condition file in maintenance mode, and then load the paint condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 254 | The memory for the paint condition file(gun4) is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the paint condition file in maintenance mode, and then load the paint condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 255 | The memory for the paint calibration set file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the paint calibration set file in maintenance mode, and then load the paint calibration set file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 256 | The memory for the paint time chart set file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the paint time chart set file in maintenance mode, and then load the paint time chart set file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 257 | The memory for the paint time chart file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the paint time chart file in maintenance mode, and then load the paint time chart file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 258 | The memory for the paint data set file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the paint data set file in maintenance mode, and then load the paint data set file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 259 | The memory for the io paint condition output file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the io paint condition output file in maintenance mode, and then load the io paint condition output file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 261 | The memory for the IOSPDCTRL setup file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the IOSPDCTRL setup file in maintenance mode, and then load the IOSPDCTRL setup file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 262 | The memory for the SETTM SETUP file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the SETTM SETUP in maintenance mode, and then load the SETTM SETUP saved in the external memory device. |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 263 | The memory for the TIMER VARIABLE NAME file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the TIMER VARIABLE NAME file in maintenance mode, and then load the TIMER VARIABLE NAME file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 264 | The memory for the takumi path correct file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the takumi path correct file in maintenance mode, and then load the takumi path correct file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 265 | The memory for the USER GROUP INPUT file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the USER GROUP INPUT file in maintenance mode, and then load the USER GROUP INPUT file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 266 | The memory for the USER GROUP OUTPUT file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the USER GROUP OUTPUT file in maintenance mode, and then load the USER GROUP OUTPUT file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 267 | The memory for the SENSPS SETTING DATA is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the SENSPS SETTING DATA in maintenance mode, and then load the SENSPS SETTING DATA saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 268 | The memory for the USER ANALOG INPUT file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the USER ANALOG INPUT file in maintenance mode, and then load the USER ANALOG INPUT file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 269 | The memory for the USER ANALOG OUTPUT file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the USER ANALOG OUTPUT file in maintenance mode, and then load the USER ANALOG OUTPUT file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 270 | The memory for the F-SAFETY SIGNAL ALLOC file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the USER ANALOG OUTPUT file in maintenance mode, and then load the USER ANALOG OUTPUT file saved in the external memory device. |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 271 | The memory for the SLC EXT. SIGNAL ALLOC file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the safety logic file in maintenance mode, and then load the safety logic file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 272 | The memory for the safety logic comment file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the safety logic file in maintenance mode, and then load the safety logic file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 273 | The memory for the timer set file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the safety logic file in maintenance mode, and then load the safety logic file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 275 | The memory for the PAINT RECOVERY file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the PAINT RECOVERY file in maintenance mode, and then load the PAINT RECOVERY file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 277 | The memory for the reducer remain time file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the reducer remain time file in maintenance mode, and then load the reducer remain time file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 278 | The memory for the safety logic signal display setup file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the safety logic file in maintenance mode, and then load the safety logic file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 284 | The memory for the F-SAFETY SIGNAL ALLOC file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the safety logic file in maintenance mode, and then load the safety logic file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 285 | The memory for the SPECIFIC INPUT COMMENT SET file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the safety logic file in maintenance mode, and then load the safety logic file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 286 | The memory for the operating time database is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the operating time database in maintenance mode, and then load the operating time database saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 287 | The memory for the operating time database is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the operating time database in maintenance mode, and then load the operating time database saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 288 | The memory for the operating time database is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the operating time database in maintenance mode, and then load the operating time database saved in the external memory device. |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 289 | The memory for the Job Monitor is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the operating time database in maintenance mode, and then load the operating time database saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 290 | The memory for the STEP DIAGNOSIS file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the STEP DIAGNOSIS file in maintenance mode, and then load the STEP DIAGNOSIS saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 291 | The memory for the ROBOT MONITOR file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the ROBOT MONITOR in maintenance mode, and then load the ROBOT MONITOR file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 292 | The memory for the ROBOT ARRANGEMENT SETUP file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the ROBOT ARRANGEMENT SETUP in maintenance mode, and then load the ROBOT ARRANGEMENT SETUP file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 295 | The memory for the ROBOT RANGE DISP DATA is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the ROBOT RANGE DISP DATA in maintenance mode, and then set the ROBOT RANGE DISP DATA. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 298 | The memory for the servo power time is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the servo power time database in maintenance mode, and then load the servo power time database saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 299 | The memory for the SYNCHRO WELDING PARAMETER is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the SYNCHRO WELDING PARAMETER in maintenance mode, and then load the SYNCHRO WELDING PARAMETER saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 300 | The memory for the safety logic file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the safety logic file in maintenance mode, and then load the safety logic file saved in the external memory device. |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 301 | The memory for the safety logic comment file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the safety logic file in maintenance mode, and then load the safety logic file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 308 | The memory for the material filling setup file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the material filling setup file in maintenance mode, and then load the material filling setup file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 309 | The memory for the pressure sensor monitor file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the pressure sensor monitor file in maintenance mode, and then load the pressure sensor monitor file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 310 | The memory for the manual purge setup file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the manual purge setup file in maintenance mode, and then load the manual purge setup file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 311 | The memory for the bonding condition file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize thebonding condition file in maintenance mode, and then load the bonding condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 313 | The memory for the pressure/ volt table file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the pressure/volt table file in maintenance mode, and then load the pressure/volt table file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 314 | The memory for the pressure/ temp monitor file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the pressure/temp monitor file in maintenance mode, and then load the pressure/temp monitor file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 372 | The memory for the tool confirmation file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the tool file in maintenance mode, and then load the tool file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4011: MEMORY ERROR(FILE DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 376 | The memory for the welding process definition file is damaged. | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the welding process definition file in maintenance mode, and then load the welding process definition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4012: MEMORY ERROR(LINK SERVOFLOAT)

An error was detected at memory check.
The memory for the link servo float condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Condition file number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the link servo float condition file in maintenance mode, and then load the link servo float condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4012: MEMORY ERROR(LINK SERVOFLOAT) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4013: MEMORY ERROR(LINEAR SERVOFLOAT)

An error was detected at memory check.
The memory for the linear servo float condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Condition file number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the linear servo float condition file in maintenance mode, and then load the linear servo float condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4014: MEMORY ERROR(ROBOT CALIB FILE)

An error was detected at memory check.
The memory for the file for calibration between manipulators is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Page number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the file for calibration between manipulators in maintenance mode, and then load the file for calibration between manipulators saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4017: MEMORY ERROR(POWER SRC USER-DEF)

An error was detected at memory check.
The memory for the Power Source user definition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the Power Source user definition file in maintenance mode, and then load the Power Source user definition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4018: MEMORY ERR(LADDER PRG FILE)

An error was detected at memory check.
The memory for the ladder program file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the ladder program file in maintenance mode, and then load the ladder program file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4019: MEMORY ERROR(CUTTING COND FILE)

An error was detected at memory check.
The memory for the user coordinates file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Page number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the cutting condition file in maintenance mode, and then load the cutting condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4020: MEMORY ERROR(OPERATION ORIGIN)

An error was detected at memory check.
The memory for the work home position file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the work home position file in maintenance mode, and then load the work home position file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4021: MEMORY ERROR(CONVEYOR COND FILE)

An error was detected at memory check.
The memory for the conveyor condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the conveyor condition file in maintenance mode, and then load the conveyor condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4022: MEMORY ERROR(PAINT SPECIAL FILE)

An error was detected at memory check.
The memory for the paint special file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Page number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the paint special file in maintenance mode, and then load the paint special file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4023: MEMORY ERROR(PAINT COND FILE)

An error was detected at memory check.
The memory for the paint condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Page number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the paint condition file in maintenance mode, and then load the paint condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4024: MEMORY ERR(WRIST WEAV AMP FILE)

An error was detected at memory check.
The memory for the wrist weaving amplitude file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the wrist weaving amplitude file in maintenance mode, and then load the wrist weaving amplitude file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4025: MEMORY ERROR(INTERRUPT JOB FILE)

An error was detected at memory check.
The memory for the interrupt job file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the interrupt job file in maintenance mode, and then load the interrupt job file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4028: MEMORY ERR(SENSOR MON COND FILE)

An error was detected at memory check.
The memory for the sensor monitoring condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the sensor monitoring condition file in maintenance mode, and then load the sensor monitoring condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4030: MEMORY ERR(PRESS COND DATA FILE)

An error was detected at memory check.
The memory for the press condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the press condition file in maintenance mode, and then load the press condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4031: MEMORY ERROR(SPOT GUN COND FILE)

An error was detected at memory check.
The memory for the spot welding gun condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the gun condition file in maintenance mode, and then load the gun condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4032: MEMORY ERROR(SPOT WELDER COND)

An error was detected at memory check.
The memory for the spot welding Power Source condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the spot welding gun condition file in maintenance mode, and then load the spot welding gun condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4033: MEMORY ERROR(GUN PRESSURE FILE)

An error was detected at memory check.
The memory for the gun pressure file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the gun pressure file in maintenance mode, and then load the gun pressure file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4034: MEMORY ERR(ANTICIPATION OT FILE)

An error was detected at memory check.
The memory for the anticipation outputs (OT) file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the anticipation output (OT) file in maintenance mode, and then load the anticipation output (OT) file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4035: MEMORY ERR(ANTICIPATION OG FILE)

An error was detected at memory check.
The memory for the anticipation outputs (OG) file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the anticipation output (OG) file in maintenance mode, and then load the anticipation output (OG) file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4036: MEMORY ERROR(WEARING FILE)

An error was detected at memory check.
The memory for the wear amount file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the wear amount file in maintenance mode, and then load the wear amount file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4037: MEMORY ERROR(STROKE POSITION)

An error was detected at memory check.
The memory for the FULL/SHORT OPEN position setting file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the FULL/SHORT OPEN position setting file in maintenance mode, and then load the FULL/SHORT OPEN position setting file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4038: MEMORY ERROR(PRESSURE FILE)

An error was detected at memory check.
The memory for the dry-spotting pressure file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the dry-spotting pressure file in maintenance mode, and then load the dry-spotting pressure file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4039: MEMORY ERROR(FORM CUT FILE)

An error was detected at memory check.
The memory for the form cut file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the form cut file in maintenance mode, and then load the form cut file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4040: MEMORY ERROR(SHOCK LEVEL FILE)

An error was detected at memory check.
The memory for the shock level file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the shock level file in maintenance mode, and then load the shock level file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4041: MEMORY ERROR(SPOT IO ALLOCTE FL)

An error was detected at memory check.
The memory for the spot I/O allocation file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the spot I/O allocation file in maintenance mode, and then load the spot I/O allocation file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4042: MEMORY ERROR(VISION FILE)

An error was detected at memory check.
The memory for the vision condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Page number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the vision condition file in maintenance mode, and then load the vision condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4043: MEMORY ERROR(VISION CALIBRATION)

An error was detected at memory check.
The memory for the vision calibration file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Page number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the vision calibration file in maintenance mode, and then load the vision calibration file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4044: MEMORY ERROR(WELD PULSE COND)

An error was detected at memory check.
The memory for the welding pulse condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the welding pulse condition file in maintenance mode, and then load the welding pulse condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4045: MEMORY ERROR(WELD PULSE SELECT)

An error was detected at memory check.
The memory for the welding pulse selection file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the welding pulse selection file in maintenance mode, and then load the welding pulse selection file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4046: MEMORY ERR(CONVEYOR CALIB FILE)

An error was detected at memory check.
The memory for the conveyor calibration file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the conveyor calibration file in maintenance mode, and then load the conveyor calibration file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4047: MEMORY ERROR(MACRO DEFINITION FILE)

An error was detected at memory check.
The memory for the macro definition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the macro definition file in maintenance mode, and then load the macro definition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4048: MEMORY ERROR(SERVO S-GUN FILE)

An error was detected at memory check.
The memory for the sealer gun characteristics file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the sealer gun characteristics file in maintenance mode, and then load the sealer gun characteristics file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4049: MEMORY ERROR(PASTE QUAN.COMP FL)

An error was detected at memory check.
The memory for the painting amount correction file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the painting amount correction file in maintenance mode, and then load the painting amount correction file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4050: MEMORY ERR(AXIS I/O ALLOC FILE)

An error was detected at memory check.
The memory for the axis motion I/O allocation file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the axis motion I/O allocation file in maintenance mode, and then load the axis motion I/O allocation file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4051: MEMORY ERR(GUN COND. AUX. FILE)

An error was detected at memory check.
The memory for the gun characteristics auxiliary file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the gun characteristics auxiliary file in maintenance mode, and then load the gun characteristics auxiliary file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4052: MEMORY ERROR(TOOL INTERFERENCE)

An error was detected at memory check.
The memory for the tool interference file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the tool interference file in maintenance mode, and then load the tool interference file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4053: MEMORY ERROR(PAINT SYS CONFIG.)

An error was detected at memory check.
The memory for the painting system setting file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the painting system setting file in maintenance mode, and then load the painting system setting file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4054: MEMORY ERROR(PAINTING SPECIAL)

An error was detected at memory check.
The memory for the painting device characteristics file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the painting device characteristics file in maintenance mode, and then load the painting device characteristics file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4055: MEMORY ERROR(CCV-PAINT TABLE)

An error was detected at memory check.
The memory for the painting CCV file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the painting CCV file in maintenance mode, and then load the painting CCV file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4056: MEMORY ERROR(PLUG VOLUME FILE)

An error was detected at memory check.
The memory for the paint filling file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the painting filling file in maintenance mode, and then load the painting filling file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4057: MEMORY ERROR(EVB GUN COND)

An error was detected at memory check.
The memory for the EVB gun condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the EVB gun condition file in maintenance mode, and then load the EVB gun condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4058: MEMORY ERROR(EVB TURBIN COND)

An error was detected at memory check.
The memory for the EVB turbine condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the EVB turbine condition file in maintenance mode, and then load the EVB turbine condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4059: MEMORY ERROR(EVB PAINT COND)

An error was detected at memory check.
The memory for the EVB paint condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the EVB paint condition file in maintenance mode, and then load the EVB paint condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4060: MEMORY ERROR(CLEARANCE FILE)

An error was detected at memory check.
The memory for the clearance file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the clearance file in maintenance mode, and then load the clearance file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4061: MEMORY ERROR(GAUGE SENSOR FILE)

An error was detected at memory check.
The memory for the gauging sensor file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the gauging sensor condition file in maintenance mode, and then load the gauging sensor condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4062: MEMORY ERROR(LNR SCALE FILE)

An error was detected at memory check.
The memory for the linear scale condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the linear scale condition file in maintenance mode, and then load the linear scale condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4063: MEMORY ERR(CONVEYOR COND SUPP.)

An error was detected at memory check.
The memory for the conveyor condition auxiliary file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the conveyor condition auxiliary file in maintenance mode, and then load the conveyor condition auxiliary file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4064: MEMORY ERR(WEAV SYNC WELD FILE)

An error was detected at memory check.
The memory for the weaving synchronizing welding condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the weaving synchronizing welding condition file in maintenance mode, and then load the weaving synchronizing welding condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4065: MEMORY ERROR(I/F PANEL FILE)

An error was detected at memory check.
The memory for the I/F panel file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the I/F panel file in maintenance mode, and then load the I/F panel file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4069: MEMORY ERR(PALLETIZE COND FILE)

An error was detected at memory check.
The memory for the palletizing condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the palletize condition file in maintenance mode, and then load the palletize condition file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4070: MEMORY ERROR(LASER TRACKING START FILE)

An error was detected at memory check.
The memory for the laser tracking welding start file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the laser tracking welding start file in maintenance mode, and then load the laser tracking welding start file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4071: MEMORY ERROR(LASER TRACKING END FILE)

An error was detected at memory check.
The memory for the laser tracking welding end file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the laser tracking welding end file in maintenance mode, and then load the laser tracking welding end file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4072: MEMORY ERROR(LASER TRACKING TRACK START FILE)

An error was detected at memory check.
The memory for the laser tracking track start file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the laser tracking track start file in maintenance mode, and then load the laser tracking track start file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4073: MEMORY ERROR(LASER TRACKING SET FILE)

An error was detected at memory check.
The memory for the laser tracking welding set file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the laser tracking welding set file in maintenance mode, and then load the laser tracking welding set file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4074: MEMORY ERROR(LASER TRACKING TRACK SET FILE)

An error was detected at memory check.
The memory for the laser tracking track set file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the laser tracking track set file in maintenance mode, and then load the laser tracking track set file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4075: MEMORY ERROR(CONDITION FILE OF CORRESPONDING TO LASER TRACKING GAP)

An error was detected at memory check.
The memory for the condition file of corresponding to laser tracking gap is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the condition file of corresponding to laser tracking gap in maintenance mode, and then load the condition file of corresponding to laser tracking gap saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4080: MEMORY ERR(MUTUAL WAIT SET FILE)

An error was detected at memory check.
The memory for the mutual wait set file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the mutual wait set file in maintenance mode, and then load the mutual wait set file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4081: MEMORY ERR(INTERF. PREDICT FILE)

An error was detected at memory check.
The memory for the interference predict file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the mutual wait set file in maintenance mode, and then load the interference predict file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4082: INTERF. PREDICT DETECT

YRC1000 has detected the possibility of interference between manipulators.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Operation mistake or teaching mistake | 1. Reset the alarm.<br>2. Pull the manipulators away each other.<br>3. If this alarm occurred during test run or playback operation, change the teaching points. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4083: INTERF. PREDICT COMM ERROR

A communication error has been detected in the interference predict function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | SubCode<br>0000_0000_0000_0010:<br>YRC1000 received an error response from the interference predict server.<br>0001_0000_0000_0001:No response for the interference check start request was returned from the intererence predict server.<br>0001_0000_0000_0010:No response for the current position acquisition request was returned from the interference predict server.<br>0001_0000_0000_0011:<br>YRC1000 received an error response for the interference check start request from the interference predict server. | Connection failure | 1. Reset the alarm.<br>2. Check the connection between interference predict server and YRC1000. |
| | | Setting error | 1. Reset the alarm.<br>2. Check each network setting for the robot controller and the interference predict server. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4084: MUTUAL WAIT ERROR

An error was detected in the mutual wait function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | SubCode<br>0000_0000_0000_0001:No response was returned from the mutual wait target.<br>0000_0000_0000_0010:An error occurred in the communication with the mutual wait target during the execution of RSYNC.<br>0000_0000_0000_0110:The setting of the mutual wait target was changed during the execution of RSYNC.<br>0000_0000_0001_0000:The mutual wait manipulator No. of the RSYNC is abnormal.<br>0000_0000_0010_0000:RSYNC was doubly executed.<br>0000_0000_0101_0000:An illegal notification was received from mutual wait target.<br>0000_0000_0111_0000:RSYNC was executed for the disconnected robot. | Setting error | SubCode<br>0000_0000_0000_0001<br>1. Reset the alarm.<br>2. Check the contents of the mutual wait setting file.<br>3. Check the network setting of the mutual wait target. |
| | | Connection failure | SubCode<br>0000_0000_0000_0001<br>0000_0000_0000_0010<br>1. Reset the alarm.<br>2. Check the communication connection with the mutual wait target. |
| | | HUB failure | SubCode<br>0000_0000_0000_0001<br>0000_0000_0000_0010<br>1. Reset the alarm.<br>2. Check the communication connection with the mutual wait target. |
| | | Setting error | SubCode:<br>0000_0000_0000_0110<br>1. Reset the alarm.<br>2. During the execution of the RSYNC instruction, check whether mutual waiting function setting change and isolation (specific input signal # 40563 = ON) are not performed. |
| | | Setting error | SubCode<br>0000_0000_0001_0000<br>1. Reset the alarm.<br>2. Check the mutual wait manipulator No. of the RSYNC. |

**4084: MUTUAL WAIT ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | SubCode<br>0000_0000_0010_0000<br>1. Reset the alarm.<br>2. Correct the job so that the RSYNC instruction will not be executed at the same time in multiple task job.<br>3. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Software operation error occurred | SubCode<br>0000_0000_0101_0000<br>1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Setting error | SubCode<br>0000_0000_0111_0000<br>1. Reset the alarm.<br>2. Make sure that the RSYNC instruction is not executed at the robot controller during isolation (dedicated input signal # 40563 = ON). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4085: MEMORY ERR(INTERF. HISTORY FILE)

An error was detected at memory check.
The memory for the interference history file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the mutual wait set file in maintenance mode, and then load the interference history file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

## ◆ 4086: MEMORY ERROR(SAFETY SET FILE)

An error was detected at memory check.
The memory for the safety set file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the safety logic file in maintenance mode, and then load the safety logic file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4087: MEMORY ERROR(TMR FILE)

An error was detected at memory check.
The memory for the timer file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the safety logic file in maintenance mode, and then load the safety logic file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4088: MEMORY ERROR(SAFETY LOGIC FILE)

An error was detected at memory check.
The memory for the safety logic file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the safety logic file in maintenance mode, and then load the safety logic file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4091: 24V FUSE BLOWN(GENERAL I/O EXP.)

24V fuse blown is detected in the General I/O unit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Station address of I/O module | Parts failure | Replace the fuse on the General I/O unit of the corresponding station. |
| | | Unit failure(General I/O Unit) | Replace the General I/O unit of the corresponding station. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4092: 24V CIRCUIT ERR(GENERAL I/O EXP.)

An error was detected in 24V detection circuit of the General I/O unit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Station address of I/O module | Unit failure | Replace the General I/O unit of the corresponding station. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4093: EXT. POWER ERR(GENERAL I/O EXP.)

External power (24V) for the General I/O unit is OFF

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Station address of I/O module | Connection failure | Check if the 24V line that is input for the General I/O unit of the corresponding station is correctly wired. |
| | | Unit failure(External Unit) | Replace the unit that supplies the external 24V power supply of the corresponding station. |
| | | Unit failure(General I/O Unit) | Replace the General I/O unit of the corresponding station. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Connection failure（MII cable） | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4094: TPSi: ERROR

An error occurred in the Fronius welding power source.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub code: shows the error code of Fronius power source. | Arc welding power source error | Confirm the Fronius's manual. |
| | | Other | If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4095: PULLBACK ERROR (PFL)

An error was detected in the PFL pullback function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The pullback was executed when the shock detection function was invalid. | Setting error | Check the following settings.<br>Shock Detection Function. Pullback signal |
| | | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | ASF04 board<br>Pullback axis mismatch | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 3 | ASF04 board<br>Pullback signal not detected | ASF04 board failure | If ASF04 board is used, need to confirm the following.<br>1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 4097: ALARM SYNC(SERVO)

The other SDCA01 board has occurred an alarm.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Represents the axis connected to the SDCA01 board where ALARM SYNC（SERVO）has occurred. | Alarm detection | Clear the alarm that occurred on the other SDCA01 board. |
| | | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 4098: PRESS CHECK EXECUTION ERROR (SERVO)

An error occurred when pressure error detection was in execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Gun No. | Setting error | Check the setting of pressure. |
| | | Setting error | Check the setting of parameters from S1CxG440 to S1CxG444. |
| | | Motor gun failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, measure the pressure with the load cell. If the pressure is normal, check the following.<br>• Tip insertion state<br>• Misalignment of upper and lower tips |
| | | Motor gun failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, check whether the gun is abnormal. |
| | | Connection failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN531-CN536<br>• SDB(External axis SERVO PACK) -CN591, CN594<br>• Motor power wiring<br>• Power supply cable |
| | | Module failure(amplifier) | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the amplifier. |
| | | Module failure(motor) | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4099: DC 24V POWER SUPPLY FAILURE(CPS)

An error was detected in the voltage value of the CPS power,

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | CPS01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, turn the power OFF then back ON.<br>3. If the alarm occurs again, replace the following unit.<br>• CPS01 unit |
| | | Short circuit or ground fault | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>Check the insertion, connection, Short circuit or ground fault of the followings.<br>・ AIO-CN306,CN307,CN308,CN309 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4102: SYSTEM DATA HAS BEEN CHANGED

The system parameters are modified.
An attempt was made to turn ON the servo power supply after having modified the system parameters.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | System data changed | 1. Reset the alarm.<br>2. Turn the power OFF then back ON before turning ON the servo power supply. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4103: PARALLEL START INSTRUCTION ERROR

An error occurred in the independent control startup operation.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Sub task being executed:<br>Although a job is being executed by instructed sub task, an attempt was made to execute another job by the sub task. | Setting error | 1. Reset the alarm.<br>2. Check if other JOB has been already executed in the same task which is used in the PSTART. If same task need to be executed in series, add PWAIT to confirm if the previous task end. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Group axis being used:<br>The job operated by another sub task uses the same group axis. | Setting error | 1. Reset the alarm.<br>2. Check if the control group of the JOB which is used in the PSTART has been already executed in other task. If the same group need to be executed in series, add PWAIT to confirm if the other task end. |

**4103: PARALLEL START INSTRUCTION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Multiple start of same job:<br>The job that was tried to be started was executed by another sub task. | Setting error | 1. Reset the alarm.<br>2. Check if the JOB which is used in the PSTART has been already executed in other task. If the same job need to be executed in series, add PWAIT to confirm if the other task end. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Unregistered master job:<br>Although the master job was not registered, an attempt was made to execute PSTART SUB (job name omitted). | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The master job of the subtask is registered |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Synchronization instruction error:<br>When restarted by PSTART, synchronization instruction status of the sub task under interruption was different from the status to restart. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The job to be started<br>• The execution timing for start command |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Stopped by an alarm:<br>An attempt was made to start the sub task which is stopped by an alarm. | Setting error | Check the following settings.<br>• Alarm occurrence status |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Synchronization task specification of SYNC instruction omit error | Setting error | 1. Reset the alarm.<br>2. Check the following setting.<br>• Synchronization task specification of SYNC instruction |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The task is specified by synchronization task of SYNC instruction. | Setting error | 1. Reset the alarm.<br>2. Check the following setting.<br>• Synchronization task specification of SYNC instruction<br>It is not possible to set the same task to the SYNC as the sub task of PSTART instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4103: PARALLEL START INSTRUCTION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 9 | I/O jog being executed | Setting error | 1. Reset the alarm.<br>2. Check the following setting.<br>• I/O jog executing status<br>Complete the I/O jog execution, and then restart. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Separate group axis being used | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• Usage status of separation use axis<br>Complete the use of separation use axis, and then restart. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | The servo power supply is OFF. | Setting error | 1. Reset the alarm.<br>2. Check the following setting.<br>• Servo power<br>Turn ON servo power. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | Twin synchronous task ID error | Setting error | 1. Reset the alarm.<br>2. Check the following setting.<br>• Twin synchronous task specification of SYNC instruction |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | PSTART instruction is the old specification. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The specifications of PSTART instruction<br>Register the PSTART instruction as new specification. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | PWAIT instruction is the old specification. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The specifications of PWAIT instruction<br>Register the PWAIT instruction as new specification. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | Sub task to be set PSTART has been already executed. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The subtask is completed by the PWAIT instruction.<br>• The execution timing for start command |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4103: PARALLEL START INSTRUCTION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 19 | An attempt was made to start up the control group where IO speed control is activaed by a job. | Setting error | 1. Reset the alarm.<br>2. Check the status of IOSPDCTRL operation setting. The control group of which setting status is "VALID" cannot be started up by a job.<br>3. Modify the job so as not to start up the control group in which IO speed control is activaed. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | MotoPlus is operating | Setting error | 1. Reset the alarm.<br>2. Check the following setting.<br>• MotoPlus operating status<br>Complete the MotoPlus operation, and then restart. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4104: WRONG EXECUTION OF LOAD INST

An error occurred when an instruction was executed by the data transmission DCI function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code1 to 245: Signifies the data transmission error. | Setting error | 1. Reset the alarm.<br>2. Refer to the instruction manual for Data Transmission Function for details. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4105: WRONG EXECUTION OF SAVE INST

An error occurred when an instruction was executed by the data transmission DCI function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code1 to 245: Signifies the data transmission error. | Setting error | 1. Reset the alarm.<br>2. Refer to the instruction manual for Data Transmission Function for details. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4106: WRONG EXECUTION OF DELETE INST

An error occurred when an instruction was executed by the data transmission DCI function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code1 to 245: Signifies the data transmission error. | Setting error | 1. Reset the alarm.<br>2. Refer to the instruction manual for Data Transmission Function for details. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4107: OUT OF RANGE(ABSO DATA)

The position difference between when the power was turned OFF and when the power was turned ON again exceeded the tolerance for the manipulator or a station.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• Move the manipulator or station to the zero position by the axis operation and check the home position alignment marks (the arrow). |
| | | Blown fuse | If AL1962 "SDCA01 board failure" occurred simultaneously with this alarm,<br>Replace the fuse(F1) in the SDCA01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4109: DC 24V POWER SUPPLY FAILURE(I/O)

24V power for I/Os is not supplied.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | 0000_0000_0000_0001: Detector circuit error.<br>0000_0000_0000_0010: Fuse blown (AIO board)<br>0000_0000_0000_0011: External 24V power supply error. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>Check the insertion and connection of the followings.<br>• CN303 of AIO board<br>• Fuse (blown) of YIO board<br>• The communications cable for the I/O module |
| | | Voltage error | 1. Reset the alarm.<br>2. If the alarm occurs again, Check the 24V external power supply. If abnormal, replace the 24V external power supply. |
| | | YIO board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the YIO board. Save the CMOS.BIN before replacing the board to be safe. |

**4109: DC 24V POWER SUPPLY FAILURE(I/O) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Short circuit or ground fault | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>Check the insertion, connection, Short circuit or ground fault of the followings.<br>• AIO-CN306,CN307,CN308,CN309 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4110: SHOCK SENSOR ACTION

This alarm occurs if the shock sensor signal is detected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Shock sensor activated | Shock sensor is activated. Select "OVERRUN&SHOCK SENSOR" under sub menu "ROBOT" to reset the sensor. After that, perform avoidance movement by jog operation. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• ASF01-CN204<br>• SDCA01-CNBX-ASF01 |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4112: DATA SENDING ERROR

A sending error occurred during data transmission.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Retry over of NAK | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the communication setting and communication wiring is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Retry over for timeout in timer A | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the communication setting and communication wiring is correct. |

**4112: DATA SENDING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Retry over for mutual response error | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the communication setting and communication wiring is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4113: DATA RECEIVING ERROR

A receiving error occurred during data transmission.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Reception timeout (timer A) | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the communication setting and communication wiring is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Reception timeout (timer B) | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the communication setting and communication wiring is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Heading length is too short. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, send EOT code to release the data link and then check that the sending side data is correctly set.<br>3. Check that the communication setting is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Heading length is too long. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, send EOT code to release the data link and then check that the sending side data is correctly set.<br>3. Check that the communication setting is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The header No. error | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, send EOT code to release the data link and then check that the sending side data is correctly set.<br>3. Check that the communication setting is correct. |

**4113: DATA RECEIVING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The text length exceeded 256 characters. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, send EOT code to release the data link and then check that the sending side data is correctly set.<br>3. Check that the communication setting is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Illegal data received | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, send EOT code to release the data link and then check that the sending side data is correctly set.<br>3. Check that the communication setting is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4114: TRANSMISSION HARDWARE ERROR

An error occurred during data transmission.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Overrun error | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the communication setting and communication wiring is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Parity error | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the communication setting and communication wiring is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Framing error | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the communication setting and communication wiring is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Transmission timeout (timer A) | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the communication setting and communication wiring is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4114: TRANSMISSION HARDWARE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 5 | Transmission timeout (timer B) | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the communication setting and communication wiring is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4115: TRANSMISSION SYSTEM BLOCK

An error occurred during data transmission. (This alarm occurs when received data cause inconsistency on the system although the transmission protocol is correct. Mainly, this alarm occurs due to an illegal transmission or erroneous report at the data sending side.)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Received EOT while waiting ACK. | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the setting of communication or transmission side data is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Received EOT while waiting ENQ. | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the setting of communication or transmission side data is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Received EOT before last block reception. | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the setting of communication or transmission side data is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Received codes other than EOT after last block reception. | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the setting of communication or transmission side data is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4116: TRANSMISSION SYSTEM ERROR

An error occurred in data transmission.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Transmission data contents error | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the setting of communication or transmission side data is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4116: TRANSMISSION SYSTEM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 100 | Trans error or protocol error | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the setting of communication or transmission side data is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4117: BRAKE POWER ERROR

Brake power supply unit(SDCA)has been blown.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The SDCA01 board # 1generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the brake connection if there is a ground fault or short circuit. |
| | | Fuse failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the brake connection and then replace the fuse. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The SDCA01 board # 2 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the brake connection if there is a ground fault or short circuit. |
| | | Fuse failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the brake connection and then replace the fuse. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The SDCA01 board # 3 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the brake connection if there is a ground fault or short circuit. |
| | | Fuse failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the brake connection and then replace the fuse. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The SDCA01 board # 4 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the brake connection if there is a ground fault or short circuit. |
| | | Fuse failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the brake connection and then replace the fuse. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4117: BRAKE POWER ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 5 | The SDCA01 board # 5 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the brake connection if there is a ground fault or short circuit. |
| | | Fuse failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the brake connection and then replace the fuse. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The SDCA01 board # 6generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the brake connection if there is a ground fault or short circuit. |
| | | Fuse failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the brake connection and then replace the fuse. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The SDCA01 board # 7generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the brake connection if there is a ground fault or short circuit. |
| | | Fuse failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the brake connection and then replace the fuse. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The SDCA01 board # 8generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the brake connection if there is a ground fault or short circuit. |
| | | Fuse failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the brake connection and then replace the fuse. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4118: FAN CIRCUIT PROTECTOR TRIPPED

The circuit protector of the in-panel cooling fan is tripped or turned OFF.
(This alarm will be displayed one minutes after detection.)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The SDCA01 board # 1generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check fan power line if there is a ground fault or short circuit. |
| | | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• (After cancellation of the short-circuit and ground fault) Turn ON the circuit protector. |
| | | Cooling fan failure | 1. Reset the alarm.<br>2. Replace the in-panel cooling fan.<br>Check the connection between manipulator and servo board.<br>* Move the manipulator to safety place in teach mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The SDCA01 board # 2 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check fan power line if there is a ground fault or short circuit. |
| | | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• (After cancellation of the short-circuit and ground fault) Turn ON the circuit protector. |
| | | Cooling fan failure | 1. Reset the alarm.<br>2. Replace the in-panel cooling fan.<br>Check the connection between manipulator and servo board.<br>* Move the manipulator to safety place in teach mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The SDCA01 board # 3 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check fan power line if there is a ground fault or short circuit. |
| | | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• (After cancellation of the short-circuit and ground fault) Turn ON the circuit protector. |
| | | Cooling fan failure | 1. Reset the alarm.<br>2. Replace the in-panel cooling fan.<br>Check the connection between manipulator and servo board.<br>* Move the manipulator to safety place in teach mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The SDCA01 board # 4 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check fan power line if there is a ground fault or short circuit. |

**4118: FAN CIRCUIT PROTECTOR TRIPPED (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• (After cancellation of the short-circuit and ground fault) Turn ON the circuit protector. |
| | | Cooling fan failure | 1. Reset the alarm.<br>2. Replace the in-panel cooling fan.<br>Check the connection between manipulator and servo board.<br>* Move the manipulator to safety place in teach mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The SDCA01 board # 5 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check fan power line if there is a ground fault or short circuit. |
| | | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• (After cancellation of the short-circuit and ground fault) Turn ON the circuit protector. |
| | | Cooling fan failure | 1. Reset the alarm.<br>2. Replace the in-panel cooling fan.<br>Check the connection between manipulator and servo board.<br>* Move the manipulator to safety place in teach mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The SDCA01 board # 6 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check fan power line if there is a ground fault or short circuit. |
| | | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• (After cancellation of the short-circuit and ground fault) Turn ON the circuit protector. |
| | | Cooling fan failure | 1. Reset the alarm.<br>2. Replace the in-panel cooling fan.<br>Check the connection between manipulator and servo board.<br>* Move the manipulator to safety place in teach mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The SDCA01 board # 7 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check fan power line if there is a ground fault or short circuit. |
| | | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• (After cancellation of the short-circuit and ground fault) Turn ON the circuit protector. |
| | | Cooling fan failure | 1. Reset the alarm.<br>2. Replace the in-panel cooling fan.<br>Check the connection between manipulator and servo board.<br>* Move the manipulator to safety place in teach mode. |

**4118: FAN CIRCUIT PROTECTOR TRIPPED (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The SDCA01 board # 8 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check fan power line if there is a ground fault or short circuit. |
| | | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• (After cancellation of the short-circuit and ground fault) Turn ON the circuit protector. |
| | | Cooling fan failure | 1. Reset the alarm.<br>2. Replace the in-panel cooling fan.<br>Check the connection between manipulator and servo board.<br>* Move the manipulator to safety place in teach mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4119: FAN ERROR(IN CONTROL BOX)

The rotation speed of the cooling fan 1 with alarm sensor connected to the CPS01K* unit decreased.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code 1 to 8: Signifies the ASF01 board No. in which the alarm occurred | Cooling fan failure | Replace the CPS01K* unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4121: COOLING FAN1 ERROR

The rotation speed of the cooling fan 1 with alarm sensor connected to the contactor unit decreased.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Cooling fan failure | 1. Reset the alarm.<br>2. Replace the cooling fan of manipulator.<br>Check the wiring from a manipulator to a servo board.<br>* Move the manipulator to the safe position in the teach mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4122: COOLING FAN2 ERROR

The rotation speed of the cooling fan 2 with alarm sensor connected to the contactor unit decreased.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Cooling fan failure | 1. Reset the alarm.<br>2. Replace the cooling fan of manipulator.<br>Check the wiring from a manipulator to a servo board.<br>* Move the manipulator to the safe position in the teach mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4123: COOLING FAN3 ERROR

The rotation speed of the cooling fan 3 with alarm sensor connected to the contactor unit decreased.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Cooling fan failure | Replace the cooling fan of manipulator.<br>Check the wiring from a manipulator to a servo board.<br>* Move the manipulator to the safe position in the teach mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4124: WRONG EXECUTION OF VISION INST

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The specified file number is incorrect. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• File No.<br>Specify the correct file number. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The specified file set value is incorrect. | Setting error | Check the following settings.<br>• File set value<br>Specify the set value. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Calibration could not be executed. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The robot coordinate data or the pixel coordinate data used for the calibration<br>• The user variable number in the calibration file<br>Set the robot coordinate data and the pixel coordinate data used for the calibration to the user variable.<br>Correctly set the user variable number in the calibration file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4124: WRONG EXECUTION OF VISION INST (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4 | The communication port for the vision system could not be initialized. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The Parameter for vision communication port.<br>3. Set the correct parameters for the communication port. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Time-out occurred during data transmission. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The communication setting of vision system |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection of the following cables.<br>• Cable between vision system and YRC1000 system |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Time-out occurred during data reception. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The communication setting of vision system |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection of the following cables.<br>• Cable between vision system and YRC1000 system |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The data received from the vision system is incorrect. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The communication setting of vision system<br>• The detection setting of vision system |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection of the following cables.<br>• Cable between vision system and YRC1000 system |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The pixel coordinates value was not able to be converted into the robot coordinates. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The communication setting of vision system<br>• Calibration file for use |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | Failed to read or write the position type variable (P variable). | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• Usage status of the specified position type variable<br>Don't use the specified positional type variable at the same time in other jobs. |

**4124: WRONG EXECUTION OF VISION INST (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Use memory is lacking and the area could not be obtained. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | The setting value of measurement item (FT) is incorrect. | Setting error | 1. Reset the alarm.<br>2. Correct the setting value of a measurement item. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | The data for the vision execution command is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 48 | The number of waiting commands sent by Vision sensor exceeded the limit. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. Check the command sent by Vision sensor.<br>3. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4125: TRANS ERROR(WELD PULSE COND)

An error occurred in the welding pulse condition transmission.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | File access error | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the communication setting and communication wiring is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | File data error | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the setting of communication or file data is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4125: TRANS ERROR(WELD PULSE COND) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3 | Calibration execution error | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the setting of communication or transmission side data is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | ACP01 port initialize error | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the setting of communication or ACP01 port is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Time-out occurred during data transmission. | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the communication setting and communication wiring is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Time-out occurred during data reception. | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the communication setting and communication wiring is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Receive data error | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the communication setting and communication wiring is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Coordinate conversion error | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the setting of communication or transmission side data is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | Position type variable access error | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the setting of communication or transmission side data is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Failed to store the area. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4125: TRANS ERROR(WELD PULSE COND) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 11 | Measurement item setting error | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the setting of communication or transmission side data is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | Tag setting error | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the setting of communication or transmission side data is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 48 | Wait status table FULL | Communication error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the setting of communication or transmission side data is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4126: CANNOT EXECUTE AUTO PMT

An error occurred when execution of auto PMT.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | System error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | PBOX cannot be edited. | Setting error | 1. Reset the alarm.<br>2. Check the following setting.<br>• I/O status of the edit prohibit signal<br>The edit prohibit signal cannot input. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The source job cannot be edited. | Setting error | 1. Reset the alarm.<br>2. Check the following setting.<br>• The prohibit status of source job<br>If the source job is protected from editing, it cannot be edited. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The converted job cannot be edited. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The prohibit status of converted job<br>If the converted job is protected from editing, it cannot be edited. |

**4126: CANNOT EXECUTE AUTO PMT (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The memory area for job area is insufficient. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete unused jobs.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. In that case, delete the unused jobs.<br>4. If the error occurs again though the previous measures were executed, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The source job is not exist. | Setting error | Check the following settings.<br>• Presence of the specified source job<br>The job which does not exist cannot be set to the source job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The memory area for position data of the job is insufficient. | Software operation error occurred | 1. Reset the alarm.<br>2. when the error occurs again, if there is an unnecessary teaching position, delete it.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. In that case, delete the unused jobs.<br>4. If the error occurs again though the previous measures were executed, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The job under execution is specified as the conversion job. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• Execution status of the source job<br>• Execution status of the converted job<br>The job under execution is specified for the source / converted job. Execute conversion operation after ending the job execution. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4128: ARC MONITOR ERROR

An error occurred when arc monitor was in execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Monitor ON was executed in Monitor ON. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• Arc monitor ON status<br>Arc monitor ON cannot be executed during arc monitor ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Analog CH specification or register specification is not exist. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• Analog CH specification<br>• Register specification<br>Analog CH specification or register specification is required. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | The number of samplings exceeds the set value. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The number of samplings<br>The number of sampling is too much. Confirm the monitor ON/OFF status. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4129: TWIN DRIVE OUT OF RANGE(START)

When the twin drive started, the error value of the pulse between the master-axes and the slave-axes exceeded the allowable range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Corresponding master-axes and slave-axes are displayed by the bit. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• Pulse error of the master-axes and the slave-axes<br>Switch to independent movement mode so that the pulse error of the master-axes and the slave-axes is settled within allowable range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4130: NETWORK APPLICATION PROCESS ERROR

An error occurred when the Ethernet function was used.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error occurred when the notification of the APP task re-initialization was processed in the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 2 | An error occurred when the re-initialization response was received in the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 3 | The incomplete task of re-initialization was unsuccessfully completed in the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 4 | An error occurred when the semaphore for re-initialization was received in the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 5 | An error occurred when the re-initialization mail was sent in the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4130: NETWORK APPLICATION PROCESS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 6 | An error occurred in the exclusive process of the storage area control table of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 7 | Time-out occurred in the re-initialization response receiving process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 8 | An error occurred in the re-initialization response receiving process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 9 | Receiving data size error occurred in the re-initialization response receiving process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 30 | An error occurred in the Web server task mail receiving process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4130: NETWORK APPLICATION PROCESS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 31 | An error occurred in the FTP server task mail receiving process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 32 | An error occurred in the FTP client task mail receiving process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 40 | Illegal e-mail data were received in the Web server task of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 41 | Illegal e-mail data were received in the FTP server task of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 42 | Illegal e-mail data were received in the FTP client task of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4130: NETWORK APPLICATION PROCESS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 50 | An error occurred in the data size written to PCI of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 51 | An error occurred when the request to write PCI data was received in the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 52 | The request of the undefined transmission was received in the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 53 | An error occurred in the transmission request of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 54 | The transmission request without data was received in the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4130: NETWORK APPLICATION PROCESS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 55 | The transmission request of illegal data length was received in the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 60 | Illegal mail data ware received in the DNS task of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 61 | Illegal mail data was transmitted in the DNS task of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 100 | An error occurred in storing process of memory which is used in the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 101 | An error occurred in the buffer for request to write PCI getting process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4130: NETWORK APPLICATION PROCESS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 200 | The socket of the Ethernet function was full and was not able to create a socket. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 201 | An error occurred in the semaphore of socket control table of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

## ◆ 4131: UDP PROCESS ERROR

An error occurred in the UDP process of the Ethernet function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error occurred in the creation of receiving socket during the UDP process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 2 | An error occurred in the creation of transmission socket during the UDP process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 3 | Illegal data were received in the UDP process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4131: UDP PROCESS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 4 | Transmission error occurred in the UDP process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 5 | The SELECT operation was not successfully completed in the UDP process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 10 | The communication error was occurred in the UDP process of the WAIT ROBOT function. | Setting error | 1. Reset the alarm.<br>2. Check the network setting for the robot controller. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 100 | The re-initialization notification of illegal data length was received in the UDP process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4131: UDP PROCESS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 101 | The re-initialization notification of illegal data was received in the UDP process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 102 | The PCI write process was not successfully completed in the UDP process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 103 | The transmission request of illegal data length was received in the UDP process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 104 | The transmission request of illegal data was received in the UDP process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

## ◆ 4132: TCP PROCESS ERROR

An error occurred in the TCP process of the Ethernet function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The socket table was not successfully created in the TCP process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 2 | An error occurred in the process of the TCP server initialization of the Ethernet function. | Setting error | 1. Make sure that there is no communication device with the same IP address in the network.<br>2. If DHCP is enabled, make sure that the correct IP address is leased from the DHCP server. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 3 | An error occurred in connection detecting process of TCP server of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 4 | An error occurred in the connection detection checking process of TCP server of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

## ◆ 4134: COOLING FAN SET ABNORMAL

Cooling fan setting parameter disabled.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• Confirm parameter SVS and S2C for the cooling fan.<br>• Open the front panel to refer to the parameter list on the back. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4135: TOYOPUC RUN STOP

TOYOPUC is in stopped state.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• Use the PCwin, etc. to run the TOYOPUC. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4136: TOYOPUC MAJOR ERROR

An error occurred in the PCI bus communication processing of the TOYOPUC.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | The PCI bus state of the TOYOPUC turns to "ER". | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• OFF/ON status of the remote<br>• OFF/ON status of the power supply<br>Turn OFF and back ON the remote or power supply. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4137: WRONG EXECUTION OF SETUALM INST

An error occurred at SETUALM instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Alarm code specification error | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• Alarm code<br>Specify the alarm in the range 8000 to 8999. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4137: WRONG EXECUTION OF SETUALM INST (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | Task specification error | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• Task specification<br>Specify the task in the range 0 to 15. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Motion mode specification error | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• Motion mode specification<br>Set the motion mode to 0 or 1. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Alarm num error | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4138: WRONG EXECUTION OF SVON INST

An error occurred at SVON instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Reset the alarm.<br>2. Check the following settings.<br>• Short-circuit the external servo ON (EXSVON) of MXT terminal block. |
| | | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The concurrent I/O signal #80031 (servo ON condition1) ON<br>• The concurrent I/O signal #80033 (servo ON condition2) ON |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4139: WRONG EXECUTION OF PRINT INST

An error occurred at PRINT instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The setting of the PRINT output conversion spec (character string specification)<br>If there is no problem in the setting, delete the corresponding PRINT instruction and register again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4140: WRONG EXECUTION OF DIALOG INST

An error occurred at DIALOG instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | DIALOG instruction control error | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The tag setting of DIALOG instruction<br>If no fault is found, delete corresponding DIALOG instruction, and then register again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Messages and buttons are not registered. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The information of DIALOG instruction message and button |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Buttons are not registered. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• The information of DIALOG instruction button |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4141: SNTP ERROR

An error occurred in the SNTP process of the Ethernet function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The error on setting of time difference value occurred in the SNTP process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 2 | The error on setting of time-out value occurred in the SNTP process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 3 | The error on setting of reference interval value occurred in the SNTP process of the Ethernet function. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| 4 | The IP address error occurred in the SNTP process of the Ethernet function. | Setting error | Check the following settings.<br>• The IP address of the SNTP server<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Time-out occurred in the SNTP process<br>of the Ethernet function. | Setting error | Check the following settings.<br>• The SNTP server operation<br>• The network status |

**4141: SNTP ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The server time is not synchronized in the SNTP process of the Ethernet function. | Setting error | Check the following settings.<br>• The SNTP server operation<br>• The network status |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The SNTP process of the Ethernet function is not compliant with the version that the server sent. | Setting error | Use the server compliant with the SNTP version 3. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Illegal parameters were found in the SNTP process of the Ethernet function. | Setting error | Check the following settings.<br>• SNTP setting |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | The SNTP process of the Ethernet function was not successfully completed. | Setting error | Check the following settings.<br>• SNTP setting |

**4141: SNTP ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | The name resolution error occurred in the SNTP process of the Ethernet function. | Setting error | Check the following settings.<br>• The IP address of the SNTP server<br>• The DHCP server operation *If the DHCP is used<br>• The network status *If the DHCP is used |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | The error on getting of server address occurred in the SNTP process of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation<br>• The network status |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | The server setting is incorrect in the SNTP process of the Ethernet function (for future use). | Setting error | Check the following settings.<br>• SNTP setting |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4145: RELAY NO. ERROR(LADDER PROGRAM)

The relay number which was detected in the ladder program was out of range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | There is invalid relay number in the SYSTEM LADDER. | Setting error | Save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | There is invalid relay number in the USER LADDER. | Setting error | Set the security to management mode and compile the ladder program. If any error occurs, modify the invalid relay number to complete the compiling.<br>Valid range<br>General Input:00010to05127<br>General Output:10010to15127<br>External Input:20010to25127<br>External Output:30010to35127<br>Specific Input:40010to41607<br>Specific Output:50010to53007<br>I/F Panel Input:60010to60647<br>Auxiliary Relay:70010to79997<br>Control Input:80010to85127<br>Pseudo Input:87010to87207<br>Network Input:27010to29567<br>Network output:37010to39567 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4146: ENCDR PWR CIRCUIT PROTECTOR TRIP

An error was detected in the encoder power circuit protector.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Incorrect setting | Check the following settings.<br>• Turn ON the circuit protector. |
| | | Short circuit or ground fault | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again even after turning ON the circuit protector, check encoder power line if there is a ground fault or short circuit. |
| | | Unit failure | Replace the motor or encoder to which the power is supplied. |
| | | Parts failure | Replace the circuit protector. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Incorrect setting | Check the following settings.<br>• Turn ON the circuit protector. |
| | | Short circuit or ground fault | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again even after turning ON the circuit protector, check encoder power line if there is a ground fault or short circuit. |
| | | Unit failure | Replace the motor or encoder to which the power is supplied. |
| | | Parts failure | Replace the circuit protector. |

### 4146: ENCDR PWR CIRCUIT PROTECTOR TRIP (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Incorrect setting | Check the following settings.<br>• Turn ON the circuit protector. |
| | | Short circuit or ground fault | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again even after turning ON the circuit protector, check encoder power line if there is a ground fault or short circuit. |
| | | Unit failure | Replace the motor or encoder to which the power is supplied. |
| | | Parts failure | Replace the circuit protector. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Incorrect setting | Check the following settings.<br>• Turn ON the circuit protector. |
| | | Short circuit or ground fault | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again even after turning ON the circuit protector, check encoder power line if there is a ground fault or short circuit. |
| | | Unit failure | Replace the motor or encoder to which the power is supplied. |
| | | Parts failure | Replace the circuit protector. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Incorrect setting | Check the following settings.<br>• Turn ON the circuit protector. |
| | | Short circuit or ground fault | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again even after turning ON the circuit protector, check encoder power line if there is a ground fault or short circuit. |
| | | Unit failure | Replace the motor or encoder to which the power is supplied. |
| | | Parts failure | Replace the circuit protector. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Incorrect setting | Check the following settings.<br>• Turn ON the circuit protector. |
| | | Short circuit or ground fault | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again even after turning ON the circuit protector, check encoder power line if there is a ground fault or short circuit. |
| | | Unit failure | Replace the motor or encoder to which the power is supplied. |
| | | Parts failure | Replace the circuit protector. |

**4146: ENCDR PWR CIRCUIT PROTECTOR TRIP (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Incorrect setting | Check the following settings.<br>• Turn ON the circuit protector. |
| | | Short circuit or ground fault | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again even after turning ON the circuit protector, check encoder power line if there is a ground fault or short circuit. |
| | | Unit failure | Replace the motor or encoder to which the power is supplied. |
| | | Parts failure | Replace the circuit protector. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Incorrect setting | Check the following settings.<br>• Turn ON the circuit protector. |
| | | Short circuit or ground fault | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again even after turning ON the circuit protector, check encoder power line if there is a ground fault or short circuit. |
| | | Unit failure | Replace the motor or encoder to which the power is supplied. |
| | | Parts failure | Replace the circuit protector. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4147: USER COORD EDIT ERROR

An error occurred during the editing operation of the user coordinates file.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the user coordinates file in maintenance mode, and then load the user coordinates file saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4148: TRACELV ERROR

An error occurred during the execution of TRACELV instruction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Trace level value is abnormal. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4149: TRACE ERROR

An error occurred during the execution of TRACE instrucion.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | Trace data is abnormal. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | Time stamp value is abnormal. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Trace level value is abnormal. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Abnormal variable is specified. | Setting error | Check the following setting;<br>• TRACE instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Exceeded the maximum trace number. | Trace error | Execute TRACESAVE or TRACERST. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4152: TIMING BELT BLOWN

The timing belt of manipulator is blown.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The SDCA01 board # 1 generates an alarm. | Manipulator timing belt is blown. | Move the manipulator in teach mode to the position where there is no torque on the driving belt.<br>1. Check the timing belt tension.<br>2. Check the wiring between manipulator and the machine safety unit (ASF01 board). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The SDCA01 board # 2 generates an alarm. | Manipulator timing belt is blown. | Move the manipulator in teach mode to the position where there is no torque on the driving belt.<br>1. Check the timing belt tension.<br>2. Check the wiring between manipulator and the machine safety unit (ASF01 board). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The SDCA01 board # 3 generates an alarm. | Manipulator timing belt is blown. | Move the manipulator in teach mode to the position where there is no torque on the driving belt.<br>1. Check the timing belt tension.<br>2. Check the wiring between manipulator and the machine safety unit (ASF01 board). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The SDCA01 board # 4 generates an alarm. | Manipulator timing belt is blown. | Move the manipulator in teach mode to the position where there is no torque on the driving belt.<br>1. Check the timing belt tension.<br>2. Check the wiring between manipulator and the machine safety unit (ASF01 board). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The SDCA01 board # 5 generates an alarm. | Manipulator timing belt is blown. | Move the manipulator in teach mode to the position where there is no torque on the driving belt.<br>1. Check the timing belt tension.<br>2. Check the wiring between manipulator and the machine safety unit (ASF01 board). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The SDCA01 board # 6 generates an alarm. | Manipulator timing belt is blown. | Move the manipulator in teach mode to the position where there is no torque on the driving belt.<br>1. Check the timing belt tension.<br>2. Check the wiring between manipulator and the machine safety unit (ASF01 board). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4152: TIMING BELT BLOWN (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 7 | The SDCA01 board # 7 generates an alarm. | Manipulator timing belt is blown. | Move the manipulator in teach mode to the position where there is no torque on the driving belt.<br>1. Check the timing belt tension.<br>2. Check the wiring between manipulator and the machine safety unit (ASF01 board). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The SDCA01 board # 8 generates an alarm. | Manipulator timing belt is blown. | Move the manipulator in teach mode to the position where there is no torque on the driving belt.<br>1. Check the timing belt tension.<br>2. Check the wiring between manipulator and the machine safety unit (ASF01 board). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4153: COOLING UNIT ERROR

An error was detected in the cooling unit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The SDCA01 board # 1 generates an alarm. | Unit failure | Refer to the instruction manuals for the cooling unit in use. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The SDCA01 board # 2 generates an alarm. | Unit failure | Refer to the instruction manuals for the cooling unit in use. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The SDCA01 board # 3 generates an alarm. | Unit failure | Refer to the instruction manuals for the cooling unit in use. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The SDCA01 board # 4 generates an alarm. | Unit failure | Refer to the instruction manuals for the cooling unit in use. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The SDCA01 board # 5 generates an alarm. | Unit failure | Refer to the instruction manuals for the cooling unit in use. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The SDCA01 board # 6 generates an alarm. | Unit failure | Refer to the instruction manuals for the cooling unit in use. |

**4153: COOLING UNIT ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The SDCA01 board # 7 generates an alarm. | Unit failure | Refer to the instruction manuals for the cooling unit in use. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The SDCA01 board # 8 generates an alarm. | Unit failure | Refer to the instruction manuals for the cooling unit in use. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4154: COOLING FAN ERROR (DOOR)

An error occurred in the cooling fan on the front door.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The SDCA01 board # 1 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |
| | | Power voltage drop | 1. Reset the alarm.<br>2. Check if the primary power voltage is normal. |
| | | Dirt | 1. Reset the alarm.<br>2. Clean the cooling fan and the fan duct. |
| | | Unit failure | 1. Reset the alarm.<br>2. Replace the malfunctioning cooling fan with a new one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The SDCA01 board # 2 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |
| | | Power voltage drop | 1. Reset the alarm.<br>2. Check if the primary power voltage is normal. |
| | | Dirt | 1. Reset the alarm.<br>2. Clean the cooling fan and the fan duct. |
| | | Unit failure | 1. Reset the alarm.<br>2. Replace the malfunctioning cooling fan with a new one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The SDCA01 board # 3 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |
| | | Power voltage drop | 1. Reset the alarm.<br>2. Check if the primary power voltage is normal. |

**4154: COOLING FAN ERROR (DOOR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Dirt | 1. Reset the alarm.<br>2. Clean the cooling fan and the fan duct. |
| | | Unit failure | 1. Reset the alarm.<br>2. Replace the malfunctioning cooling fan with a new one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The SDCA01 board # 4 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |
| | | Power voltage drop | 1. Reset the alarm.<br>2. Check if the primary power voltage is normal. |
| | | Dirt | 1. Reset the alarm.<br>2. Clean the cooling fan and the fan duct. |
| | | Unit failure | 1. Reset the alarm.<br>2. Replace the malfunctioning cooling fan with a new one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The SDCA01 board # 5 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |
| | | Power voltage drop | 1. Reset the alarm.<br>2. Check if the primary power voltage is normal. |
| | | Dirt | 1. Reset the alarm.<br>2. Clean the cooling fan and the fan duct. |
| | | Unit failure | 1. Reset the alarm.<br>2. Replace the malfunctioning cooling fan with a new one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The SDCA01 board # 6 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |
| | | Power voltage drop | 1. Reset the alarm.<br>2. Check if the primary power voltage is normal. |
| | | Dirt | 1. Reset the alarm.<br>2. Clean the cooling fan and the fan duct. |
| | | Unit failure | 1. Reset the alarm.<br>2. Replace the malfunctioning cooling fan with a new one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The SDCA01 board # 7 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |

**4154: COOLING FAN ERROR (DOOR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Power voltage drop | 1. Reset the alarm.<br>2. Check if the primary power voltage is normal. |
| | | Dirt | 1. Reset the alarm.<br>2. Clean the cooling fan and the fan duct. |
| | | Unit failure | 1. Reset the alarm.<br>2. Replace the malfunctioning cooling fan with a new one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The SDCA01 board # 8 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |
| | | Power voltage drop | 1. Reset the alarm.<br>2. Check if the primary power voltage is normal. |
| | | Dirt | 1. Reset the alarm.<br>2. Clean the cooling fan and the fan duct. |
| | | Unit failure | 1. Reset the alarm.<br>2. Replace the malfunctioning cooling fan with a new one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4155: COOLING FAN ERROR (BACKSIDE)

An error occurred in the backside cooling fan.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The SDCA01 board # 1 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |
| | | Power voltage drop | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |
| | | Dirt | 1. Reset the alarm.<br>2. Clean the cooling fan and the fan duct. |
| | | Unit failure | 1. Reset the alarm.<br>2. Replace the malfunctioning cooling fan with a new one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The SDCA01 board # 2 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |
| | | Power voltage drop | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |

**4155: COOLING FAN ERROR (BACKSIDE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Dirt | 1. Reset the alarm.<br>2. Clean the cooling fan and the fan duct. |
| | | Unit failure | 1. Reset the alarm.<br>2. Replace the malfunctioning cooling fan with a new one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The SDCA01 board # 3 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |
| | | Power voltage drop | 1. Reset the alarm.<br>2. Check if the primary power voltage is normal. |
| | | Dirt | 1. Reset the alarm.<br>2. Clean the cooling fan and the fan duct. |
| | | Unit failure | 1. Reset the alarm.<br>2. Replace the malfunctioning cooling fan with a new one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The SDCA01 board # 4 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |
| | | Power voltage drop | 1. Reset the alarm.<br>2. Check if the primary power voltage is normal. |
| | | Dirt | 1. Reset the alarm.<br>2. Clean the cooling fan and the fan duct. |
| | | Unit failure | 1. Reset the alarm.<br>2. Replace the malfunctioning cooling fan with a new one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The SDCA01 board # 5 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |
| | | Power voltage drop | 1. Reset the alarm.<br>2. Check if the primary power voltage is normal. |
| | | Dirt | 1. Reset the alarm.<br>2. Clean the cooling fan and the fan duct. |
| | | Unit failure | 1. Reset the alarm.<br>2. Replace the malfunctioning cooling fan with a new one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The SDCA01 board # 6 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |

**4155: COOLING FAN ERROR (BACKSIDE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Power voltage drop | 1. Reset the alarm.<br>2. Check if the primary power voltage is normal. |
| | | Dirt | 1. Reset the alarm.<br>2. Clean the cooling fan and the fan duct. |
| | | Unit failure | 1. Reset the alarm.<br>2. Replace the malfunctioning cooling fan with a new one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The SDCA01 board # 7 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |
| | | Power voltage drop | 1. Reset the alarm.<br>2. Check if the primary power voltage is normal. |
| | | Dirt | 1. Reset the alarm.<br>2. Clean the cooling fan and the fan duct. |
| | | Unit failure | 1. Reset the alarm.<br>2. Replace the malfunctioning cooling fan with a new one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The SDCA01 board # 8 generates an alarm. | Connection failure | 1. Reset the alarm.<br>2. Check the connection and insertion of the cable and connector for the cooling fan. |
| | | Power voltage drop | 1. Reset the alarm.<br>2. Check if the primary power voltage is normal. |
| | | Dirt | 1. Reset the alarm.<br>2. Clean the cooling fan and the fan duct. |
| | | Unit failure | 1. Reset the alarm.<br>2. Replace the malfunctioning cooling fan with a new one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4156: COOLING FAN4 ERROR

The rotation speed of the cooling fan 4 with alarm sensor connected to the YIU unit decreased.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Cooling fan failure | 1. Reset the alarm.<br>2. Replace the cooling fan of manipulator.<br>Check the wiring from a manipulator to a servo board.<br>* Move the manipulator to the safe position in the teach mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4192: TRACE FILE ERROR

An error occurred during the access to a TRACE file data

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | TRACE file generation error | Connection failure | 1. Reset the alarm.<br>2. Check the connection status of the USB in the YRC1000 controller and its available memory. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | TRACE file open error | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | TRACE file writing error | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | TRACE file close error | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | TRACE file number error | Trace error | Delete the trace files generated today from the USB on the YRC1000 controller. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | TRACE file index error | Trace error | Review the name of the trace files generated today in the USB on the YRC1000 controller. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4193: DATABASE ACCESS ERROR(PAINT)

An error occurred while accessing the database.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | The specified database doesn't exist. | Setting error | Check the setting of the following item;<br>• Database number |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4193: DATABASE ACCESS ERROR(PAINT) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Cannot access the specified database. | Database error | Delete the database file in the USB installed to the YRC1000 controller. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4194: 3D TRACE BUFFER OVERFLOW

An error occurred in the tracing function of 3D graphic function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | There is not enough space for 3D trace buffer. | Setting error | Adjust the parmeter: 3D trace sampling cycle:S3C1325. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4197: INCORRECT SAFETY LOGIC CIRCUIT

An error occurred in the safety logic circuit function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Subcode means the number of incorrect circuit. | Setting error | 1. Check the safety logic circuit setting.<br>2. Check the safety functions setting in mentenance mode |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4200: SYSTEM ERROR(FILE DATA)

An error occurred during the access to file data (during file edition or external memory device operation).

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub code 01 to 50: Signifies the internal software error | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, turn the controller power OFF and then ON to check the operation.<br>3. If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4201: SYSTEM ERROR(JOB)

An error occurred when accessing the job data of MOTION section.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| -1 | An error occurred during the access a job in parameter specifications. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -2 | Access time exceeded the limit during the access to a job. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -3 | The access to a job could not be performed with the specified job name. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4201: SYSTEM ERROR(JOB) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| -4 | A job was newly created with the same name of the job already specified in the memory. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -5 | A job was newly created with the same name of the job already specified in the memory. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -6 | The allowable job registration area (memory) was exceeded. | Setting error | Delete unused jobs. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -7 | A job that did not exist in the memory was specified. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4201: SYSTEM ERROR(JOB) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -8 | An attempt was made to change the contents for the job prohibited from being edited. | Setting error | Release the prohibition. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -9 | An error occurred during the access to a job in handle value. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -10 | An error occurred in job data control system. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -11 | An error occurred in sequence number of the accessed job. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**4201: SYSTEM ERROR(JOB) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -12 | An error occurred in step number of the accessed job. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -13 | A job specified at job search did not exist in the memory. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -14 | There was an instruction that did not exist in a job because of inconsistency of the system software. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**4201: SYSTEM ERROR(JOB) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -16 | Unused handles were lacking when an attempt was made to open a job. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -18 | The number of instructions added to a job exceeded 9999. | Setting error | Delete unnecessary instructions and add new instructions again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -19 | The number of steps added to a job exceeded 9999. | Setting error | Delete unnecessary steps and add new steps again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -22 | Job information was not able to be expanded. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4201: SYSTEM ERROR(JOB) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| -23 | Job information was not able to be acquired. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -24 | An error occurred in cluster control. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -25 | Failed to read the cluster information. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -26 | Heap area could not be obtained. | Software operation error occurred | Reset the alarm, and then try again. |

**4201: SYSTEM ERROR(JOB) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -27 | The target for change is the line where editing is prohibited or the comment-out line. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, deactivate the prohibit setting for the target line or delete the comment-out line. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -28 | The marker job was incorrectly changed. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -90 | The configuration data is damaged. | Software operation error occurred | Reset the alarm, and then try again. |

**4201: SYSTEM ERROR(JOB) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -91 | The FAT area is damaged. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -92 | A job data in the memory was destroyed. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4202: SYSTEM ERROR(JOB)

This alarm occurs if abnormal internal data is detected during the access to the job data of operating/editing software.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error occurred in parameter specifications for the access to a job . | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Access time exceeded the limit during the access to a job. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Unapproved characters are used for a job name. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | A job was newly created with the same name of the job already specified in the memory. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | A job was newly created with the same name of the job already specified in the memory. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4202: SYSTEM ERROR(JOB) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 6 | The allowable job registration area (memory) was exceeded. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete unused jobs.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. In that case, delete the unused jobs. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | A job that did not exist in the memory was specified. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | An attempt was made to change the contents for the job prohibited from being edited. | Setting error | Check the following settings.<br>• Setting of EDIT LOCK in JOB header screen<br>If the job is protected from editing, release the prohibition. |
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If you edit this job, release the prohibition.<br>3. If the error occurs again, delete the job where the alarm occurred.<br>4. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | An attempt was made to change the contents for the job prohibited from being edited. | Setting error | Check the following settings.<br>• Setting of EDIT LOCK in JOB header screen<br>If the job is protected from editing, release the prohibition. |
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If you edit this job, release the prohibition.<br>3. If the error occurs again, delete the job where the alarm occurred.<br>4. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | An error occurred in job data control system. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |

**4202: SYSTEM ERROR(JOB) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | An error occurred in sequence number of the accessed job. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | An error occurred in step number of the accessed job. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | A job specified at job search did not exist in the memory. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | There was an instruction that did not exist in a job because of inconsistency of the system software. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | Unused handles were lacking when an attempt was made to open a job. | Setting error | Check the following settings.<br>• The number of call job stacks<br>Set the job configuration that decreases the number of call job stacks. |
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |

**4202: SYSTEM ERROR(JOB) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | The number of instructions added to a job exceeded 9999. | Setting error | Check the following settings.<br>• The number of steps in job<br>Delete unnecessary instructions in job and add new instructions. |
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | The number of steps added to a job exceeded 9999. | Setting error | Check the following settings.<br>• The number of steps in job<br>Delete unnecessary steps in job and add new steps. |
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | A job was newly created with the same name of the undefined job already specified in the memory. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | Failed to expand job information during the access to a job. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4202: SYSTEM ERROR(JOB) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 23 | The accessed job was not opened. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 24 | An error occurred in the cluster control process of the accessed job. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 25 | An error occurred when reading the cluster information of the accessed job. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 26 | Failed to acquire the necessary memory area during the access to a job. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 27 | An attempt was made to change the contents for the line prohibited from being edited or the commented-out line. | Setting error | 1. Reset the alarm.<br>2. Cancel the LINE EDIT LOCK/COMMENT OUT settings of target lines in JOB CONTENTS screen. |
| | | Software operation error occurred | 1. Reset the alarm.<br>2. Cancel the LINE EDIT LOCK/COMMENT OUT settings of target lines in JOB CONTENTS screen.<br>3. If the error occurs again, delete the line where the alarm occurred.<br>4. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4202: SYSTEM ERROR(JOB) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 28 | The marker job was incorrectly changed. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 90 | The configuration information for job data control is damaged. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 91 | The FAT information for job data is damaged. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 92 | A job data was destroyed. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 99 | A job data in the memory was destroyed. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4203: SYSTEM ERROR(POSITION DATA)

An data error occurred during the access to position data of MOTION section.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| -1 | The memory area for position data is lacking at the initialization of the position data control process. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -2 | The number of axes for all the control groups is zero at the initialization of the position data control process. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -3 | The number of axes for position data is zero. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4203: SYSTEM ERROR(POSITION DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -4 | The number of stored position data exceeded the maximum stored data at the initialization of the position data control process. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -5 | The memory size of the position data exceeded the maximum memory size at the initialization of the position data control process. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -6 | Unused position data file is destroyed. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4203: SYSTEM ERROR(POSITION DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -7 | Unused position data file does not exist. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -8 | Position data file is destroyed. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -9 | Position data control information is destroyed. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4203: SYSTEM ERROR(POSITION DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| -10 | An error occurred in specified position data number. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -11 | Position data is not registered. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -12 | An attempt was made to access the undefined position data. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -13 | An attempt was made to access the position data for the undefined control group. | Software operation error occurred | Reset the alarm, and then try again. |

**4203: SYSTEM ERROR(POSITION DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -14 | Position data control is not initialized. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -15 | The number of axes for the control groups exceeded the limit. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -16 | An error occurred in exclusive control during the position data control process. | Software operation error occurred | Reset the alarm, and then try again. |

**4203: SYSTEM ERROR(POSITION DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -17 | An error occurred in exceptional control during the position data control process. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -20 | Inconsistency of data. | Software operation error occurred | Reset the alarm, and then try again. |
| | | AIF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | ACP01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4204: SYSTEM ERROR(POSITION DATA)

This alarm occurs if abnormal internal data is detected during the access to position data.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The number of axes for all the control groups is zero at the initialization of the position data control process | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The number of axes for all the control groups is zero at the initialization of the position data control process | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The number of axes for position data is zero. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The number of stored position data exceeded the maximum stored data at the initialization of the position data control process. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The memory size of the position data exceeded the maximum memory size at the initialization of the position data control process. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4204: SYSTEM ERROR(POSITION DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 6 | Unused position data file is destroyed. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Unused position data file does not exist. | Setting error | Check the following settings.<br>• The number of steps in job (position data)<br>Delete unnecessary position data in job and add new position data. |
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Position data file is destroyed. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | Position data control information is destroyed. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | An error occurred in specified position data number. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4204: SYSTEM ERROR(POSITION DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 11 | Position data is not registered. | Setting error | Check the following settings.<br>• Teaching of alarm occurred point<br>Teaching the point where alarm occurred. |
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | An attempt was made to access the undefined position data. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | An attempt was made to access the position data for the undefined control group. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | Position data control is not initialized. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | The number of axes for the control groups exceeded the limit. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4204: SYSTEM ERROR(POSITION DATA) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 16 | An error occurred in exclusive control during the position data control process. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | An error occurred in exceptional control during the position data control process. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | Undefined position exists. | Software operation error occurred | 1. Reset the alarm.<br>2. If the error occurs again, delete the job where the alarm occurred.<br>3. If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4206: SYSTEM ERROR(TRANSMISSION)

An error occurred in data transmission.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code 1 to 4: Signifies the internal software error during data transmission. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4207: SYSTEM ERROR(MOTION)

A system error occurred in MOTION section.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An interrupt undefined in the main command from the system control section occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An interrupt undefined in the sub command from the system control section occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The interrupt command that was sent previously from the system control section is being processed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | An error was detected in the interrupt command data from the system control section. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | An undefined command was detected in the sub segment task of MOTION section. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | An undefined command was detected in the servo-related processing of MOTION section. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | An undefined command was detected in the offline processing task of MOTION section. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | An undefined command was detected in the utility task of MOTION section. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Task Token is not generated. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | Mail-box Token is not generated. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | Semaphore Token is not generated. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | RMS receiving data error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 15 | RMS sending data error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | RMS receiving unit error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | Task generation error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | Mail-box generation error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | Semaphore generation error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | TCB area overflow | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 23 | Stack area overflow | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 24 | Mail-box area overflow | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 25 | Semaphore area overflow | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | Interrupt main command error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 33 | Incorrect control group designation | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 34 | Offline bank semaphore reception error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 35 | m_gen_area semaphore reception error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 36 | Offline HA processing timeout | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 37 | DM_BANK flag error (DM_ BANK conversion processing) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 38 | S -> M offline processing command type error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 39 | Function specification error in the data transmission to the sensor board | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 40 | Error in designation of application in the request of general-purpose data preset for each application. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 45 | Mail-box of sequence task is not ready. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 46 | Control-group usage undefined | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 47 | Segment task polling command error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 48 | Physical axis number error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 49 | The control group impossible to release the brake | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 50 | Sub-segment request FULL | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 51 | Sub-segment process timeout | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 52 | Data latch request FULL | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 53 | Data latch process timeout | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 54 | AXIS command request FULL | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 55 | AXIS command process timeout | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 56 | Positioning monitor request FULL | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 57 | Positioning monitor process timeout | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 58 | Failed AXIS servo OFF command request during category1 emergency stop | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 59 | AXIS servo OFF command execution system not set during category1 emergency stop | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 61 | Conversion primary expression for Power Source command <-> EW command not prepared | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 62 | Duplicated request error during master control-group tracking | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 63 | GVM shared resource semaphore error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 64 | Job queue DEQUE error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 65 | Conversion primary expression for painting device command <-> EW command not prepared | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 66 | Execution system decision table not set | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 67 | Unknown mode data (Without TEACH/PLAY mode data) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 68 | Shift-value output timeout of the general-purpose sensor | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 69 | Interrupt main status set | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 71 | System number error at the master side in twin synchronous system | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 72 | No data link added to the command | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 73 | Setting status error of the user coordinates file | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 75 | Previous path data reference error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 76 | Target position preparation error in arc-retry shift motion mode | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 79 | Inner track zone status error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 80 | Instruction queue and instruction system data area overflow | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 81 | Offline answer bank flag error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 82 | Path and trace queue ENQUE BANK error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 83 | Pending and block end request FULL | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 84 | Base axis file type error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 85 | Output buffer SYSCON for automatic test data in use | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 86 | Conversion completion status for AXIS section feedback latch data not established | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 88 | File C1 through C3 for calibration between manipulators not set | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 89 | File C1 through C3 for conveyor calibration not set | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 90 | HA function error (conv_pos_ data()) | Setting error | 1. Check the following settings.<br>• Correct the job so that the target position data is within the motion range.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 91 | HA function error (conv_shift_ data()) | Setting error | 1. Check the following settings.<br>• Correct the job so that the target position data is within the motion range.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 94 | HA function error (conv_pulse_ to_angle()) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 95 | HA function error (pr_atinf_ pos_make()) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 97 | HA function error (get_gun_ ctrl_ori_angle()) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 98 | HA function error (make_conv_ frm_data()) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 99 | HA function error (calc_dist_pos ()) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 100 | Control-group axis configuration information parameter error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 101 | Error in the parameter for the table for physical axes | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 102 | Error in the parameter for the table for physical TU | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 103 | Excessive number of control group axes in use | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 104 | JOG and PLAY maximum speed setting parameter error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 105 | Reduction ratio setting parameter error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 106 | feedback PPR setting parameter error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 121 | Job argument stack overflow | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 122 | Job argument stack underflow | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 123 | Designation error of the fetched feedback pulse area at preparation of current value | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 128 | Timeout for waiting permission to modify the number of averaging times | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 129 | Object undefined for CLEAR instruction | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 130 | No space in RT_BANK setting area for correction-amount data | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 131 | Queue operation error for variable write-in history at prereading (at ENQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 132 | Queue operation error for variable write-in history at prereading (at DEQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 133 | Queue operation error for variable write-in history at prereading (undefined operation) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 134 | Queue operation error for variable write-in history at prereading (data length too long) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 135 | Queue operation error for score-board setting history (at ENQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 136 | Queue operation error for score-board setting history (at DEQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 137 | Queue operation error for score-board setting history (undefined operation) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 138 | Queue operation error for score-board setting history (data length too long) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 139 | Queue operation error for instruction execution (at ENQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 140 | Queue operation error for instruction execution (at DEQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 141 | Queue operation error for instruction execution (undefined operation) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 142 | Queue operation error for instruction execution (data length too long) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 143 | Queue operation error for WORK ID conveyor (at ENQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 144 | Queue operation error for WORK ID conveyor (at DEQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 145 | Queue operation error for WORK ID conveyor (undefined operation) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 146 | Queue operation error for WORK ID conveyor (data length too long) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 147 | Queue operation error for WORK IN/OUT checking conveyor (at ENQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 148 | Queue operation error for WORK IN/OUT checking conveyor (at DEQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 149 | Queue operation error for WORK IN/OUT checking conveyor (undefined operation) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 150 | Queue operation error for WORK IN/OUT checking conveyor (data length too long) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 151 | Queue operation error for waiting for semaphore for LOCK instruction (at ENQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 152 | Queue operation error for waiting for semaphore for LOCK instruction (at DEQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 153 | Queue operation error for waiting for semaphore for LOCK instruction (undefined operation) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 154 | Queue operation error for waiting for semaphore for LOCK instruction (data length too long) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 161 | Functional safety command request is full. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 162 | Functional safety command request is latency over. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 163 | Transfer data overflow in functional safety readback data. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 164 | PFL command request is full. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 165 | PFL command request is latency over. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 166 | Transfer data overflow in PFL readback data. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 221 | Transfer data overflow in offline data bank | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 222 | Impossible to execute system exclusive for system job | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 223 | Event queue number range exceeded | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 224 | No motor-gun control group for ESRCH instruction | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 225 | The number of WORK ID data and the MAX. WORK FIND COUNT unmatched (MOTION NOT EQUAL CV) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 226 | The number of WORK IN/OUT data and the MAX. WORK FIND COUNT unmatched (MOTION NOT EQUAL CV) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 227 | Excessive number of scheduling for execution of instructions | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 228 | Instruction execution scheduling impossible | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 229 | Illegal 1st-line move instruction at execution of +SMOV instruction | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 230 | Impossible to execute the slave circular interpolation and the master circular interpolation at the same time | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 231 | Impossible to execute the slave spline interpolation and the master spline interpolation at the same time | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 232 | Illegal index value for a +MOVx instruction | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 233 | No xth-line move instruction exists where the master control group belongs. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 234 | Marking error for WORK ID conveyor queue (empty queue) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 235 | Marking error for WORK IN/ OUT conveyor queue (empty queue) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 236 | Data error 1 at restarting after an emergency stop (actual status and the data status unmatched) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 237 | Data error 2 at restarting after an emergency stop (actual status and the data status unmatched) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 238 | Data error 3 at restarting after an emergency stop (actual status and the data status unmatched) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 239 | Timeout for receiving segment data output request | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 240 | The number which designates the setting area of correction amount in RT_BANK exceeded the limit value. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 241 | Task error of the function calling source (cv_sync_intr ( )) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 242 | No control group for motor gun for clearance move instruction | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 243 | Motor gun condition file number error (including gun pressure file) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 244 | GETTOOLW manipulator designation error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 245 | Overflow of entry number for instruction execution | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 246 | Data latch processing (function number overflow) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 247 | Data latch processing (real-time status number overflow) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 248 | Failed to set a timer unit. (No allocation space for timer unit setting) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 249 | Segment data missing (seg_t_req was not received in time.) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 250 | GETS instruction internal error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 251 | SETFILE undefined file | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 252 | GETFILE undefined file | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 253 | The parameter was destroyed when a GETPRM instruction was executed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 254 | Null pointer assignment detected | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 255 | Function or other processing parameter error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 260 | Arithmetic answer is not set at prereading (ADV_HA_ANS.flag == OFF) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 261 | Heap area obtainment failure (A_BANK) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 262 | Heap area obtainment failure (C_BANK) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 263 | Heap area obtainment failure (Instruction queue) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 264 | Heap area obtainment failure (Path/trace queue) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 265 | Heap area obtainment failure (IF-Express descriptor) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 270 | Error in setting impedance control mode. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 271 | Error in releasing impedance control mode. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 279 | Specified MSS system instance is not generated. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 280 | API error(HDAS_get_alias_ name()) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 284 | GA generation number is over the limit. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 285 | GA gene number is over the limit. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 286 | GA initial generation number setting error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 287 | GA control group error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 288 | Learning control analysis error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 290 | HA function error (get_svspot_ntch_data()) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 291 | Paint instruction internal error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 292 | Paint recover control error (Paint Gun parameter error) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 293 | Paint recover control error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 294 | Job completion time over | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 295 | Servo simulator averaging time change error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 296 | Precondition judgment target instruction search failure | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 297 | Sealing instruction internal error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 298 | Heap area obtainment failure (speed recode queue) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 310 | Synchronized queue operation error for WORK ID conveyor (at ENQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 311 | Synchronized queue operation error for WORK ID conveyor (at DEQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 312 | Synchronized queue operation error for WORK ID conveyor (undefined operation) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 313 | Synchronized queue operation error for WORK ID conveyor (data length too long) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 314 | Synchronized queue operation error for WORK IN/OUT checking conveyor (at ENQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 315 | Synchronized queue operation error for WORK IN/OUT checking conveyor (at DEQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 316 | Synchronized queue operation error for WORK IN/OUT checking conveyor (undefined operation) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 317 | Synchronized queue operation error for WORK IN/OUT checking conveyor (data length too long) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 318 | Synchronized queue operation error for WORK ID conveyor or WORK IN/OUT conveyor (at DEQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 319 | Synchronized queue empty error for WORK ID conveyor (at execution of CVQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 320 | Synchronized queue empty error for WORK IN/OUT conveyor (at execution of CVQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 330 | P-PLC suspend err | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 331 | P-PLC suspend err | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 332 | P-PLC suspend seq err | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 333 | P-PLC suspend seq no err | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 334 | P-PLC suspend seq no err | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 340 | PSTRIG suspend err | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 341 | PSTRIG suspend err | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 342 | PSTRIG suspend seq err | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 360 | Timing Control queue operation (at DEQUE) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 370 | The setting of the motor gun targeted with MOTOR GUN AUTO TUNING function is incorrect. | Software operation error occurred | 1. Check the following settings.<br>• Motor type of gun axis.<br>• Acceleration time of gun axis.<br>• Max RPM of gun axis.<br>2. If the error occurs again after the previous measures were executed, set the acceleration time of the gun axis longer.<br>3. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 371 | ACK response error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 372 | Polling command release error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 380 | Heap area obtainment failure (M_SV Transfer delay area) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 381 | Heap area obtainment failure (M_SU Transfer delay area) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 382 | Heap area obtainment failure (M_PFL Transfer delay area) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 500 | SL undefined interrupt command (main command) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 501 | SL undefined interrupt command (sub command) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 502 | Previous SL interrupt command processing | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 503 | SL interrupt command data error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 999 | Arithmetic section error (segment data all zero timeout) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000 | System clock (RTC) setting error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001 | System task priority arrangement error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1002 | VxWorks primitive error (msgQCreate) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1003 | VxWorks primitive error (msgQSend) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1005 | VxWorks primitive error (semBCreate) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4207: SYSTEM ERROR(MOTION) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1007 | VxWorks primitive error (semTake) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1008 | VxWorks primitive error (msgQSend) Message queue is full. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1100 | Failed system job environment configuration | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000 | Failed system job environment configuration | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4208: SYSTEM ERROR(ARITH)

A system error occurred in ARITH.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Prereading task is not completed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The averaging buffer in the arithmetic section is destroyed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | No previous bank exists. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The answer bank flag is ON. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | An error occurred in preparation of current position. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | Mails could not correctly be received in the current task. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Spline-curve path designation error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4208: SYSTEM ERROR(ARITH) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 11 | The previous bank's prereading conversion could not correctly be completed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | A manipulator designation error occurred at JOG operation using the external reference point. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | Designation error of cubic interference coordinates | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | Path control position data error of prereading bank | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | Station/base axis motion command error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | User coordinates number error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | Processing error in re-preparation of segment control data | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | Prereading task not completed at master in twin synchronous system | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 23 | Dynamic model arithmetic error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 24 | Speed limit control error (excessive moment of gravity) | Setting error | 1. Check the following settings.<br>• The allowable breaking torque was exceeded only by the gravity moment. Set the gravity value of the tool within payload of the manipulator.<br>• Teach the manipulator orientation that does not become the overload for each-axes of the manipulator.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 25 | Square root of a negative number | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4208: SYSTEM ERROR(ARITH) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 26 | The system number is not set at master in twin synchronous system. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 29 | FORMCUT internal control error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | Arm interference check error (radius data referencing mistake) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 31 | Arm interference check error (miscalculation using direct kinematics) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32 | Arm interference check error (L-axis expansion flag setting error) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 33 | Arm interference check error (check-point re-setting error) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 34 | Impossible to edit the averaging buffer (zero division) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 35 | No master-group is designated at preparation of master-tool user coordinates. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 41 | Pulse linked JOG function error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 42 | Special JOG operation error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 44 | Segment overless: Segment excessive error | Setting error | The teaching position cannot hold down the speed by the segment overless function. Reduce the teaching speed of the job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 45 | Segment overless: Path calculation repeat error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4208: SYSTEM ERROR(ARITH) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 47 | Play path control: initialization error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 48 | Play path control: continue process error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 49 | Play path control: Step continuous initialization error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 50 | Play path control: step continuous motion execution process error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 54 | Approximation model internal control error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 55 | Pair coordinate system position calculation function error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 56 | OPT higher acceleration and deceleration control is not allowed when Function acceleration and deceleration control is enabled. | Setting error | Check the following settings.<br>• OPT higher acceleration and deceleration control is used.<br>• Don't use the OPT higher acceleration and deceleration control. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 57 | Arithmetic error occurred when calculating the acceleration and deceleration time (Function acceleration and deceleration control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 58 | Arithmetic error occurred when recalculating the acceleration and deceleration time (Function acceleration and deceleration control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 59 | Arithmetic error occurred when calculating PL control (Function acceleration and deceleration control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 60 | Arithmetic error occurred when calculating Function acceleration and deceleration dry run. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4208: SYSTEM ERROR(ARITH) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 61 | Arithmetic error occurred when calculating current path of continuous motion stop operation | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 62 | Arithmetic error occurred when calculating next path of continuous motion stop operation | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 63 | Arithmetic error occurred when calculating acceleration time when continuous motion in the prereading processing | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 64 | Arithmetic error occurred when calculating deceleration time when continuous motion in the prereading processing | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 65 | Arithmetic error occurred when calculating acceleration and deceleration time when teaching. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 66 | Arithmetic error occurred when calculating acceleration and deceleration time for plucking in prereading processing 1 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 67 | Arithmetic error occurred when calculating acceleration and deceleration time for plucking in prereading processing 2 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 68 | Arithmetic error occurred when calculating acceleration and deceleration time for plucking in prereading processing 3 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 69 | Arithmetic error occurred when calculating acceleration and deceleration time for plucking in prereading processing 4 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 70 | Arithmetic error occurred when calculating acceleration and deceleration for PL control plucking in prereading processing 1 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 71 | Arithmetic error occurred when calculating acceleration and deceleration for PL control plucking in prereading processing 2 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 72 | Arithmetic error occurred when calculating acceleration and deceleration for plucking | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4208: SYSTEM ERROR(ARITH) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 73 | Arithmetic error occurred when calculating acceleration and deceleration for PL control in prereading processing 1 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 74 | Arithmetic error occurred when calculating acceleration and deceleration for PL control in prereading processing 2 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 75 | Arithmetic error occurred when calculating acceleration and deceleration for PL control in prereading processing 3 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 76 | Arithmetic error occurred when calculating acceleration and deceleration for PL control in prereading processing 4 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 77 | Arithmetic error occurred when calculating acceleration and deceleration for PL control in prereading processing 5 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 96 | Press full synchronous function: Press synchronous execution error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 97 | Press full synchronous function: The press position carried out cycle movement over. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 98 | Press full synchronous function: Press synchronous position error | Software operation error occurred | Execute Position Adjustment Function to correct the position gap between press position and the manipulator.<br>• Confirm that both press and manipulator are maintained in stopped state.<br>• Change the specific input: Position Correct Request (#40540) to ON.<br>• Execute the Press synchronization JOB again.<br>• Wait for the specific output "Correcting position(#50683)" to become OFF and then start up the press. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 99 | Press full synchronous function: Position search error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 102 | Posture control error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4208: SYSTEM ERROR(ARITH) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 103 | HA Servo Simulation error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 105 | Timing control function control group error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 106 | Feedback approximation model table queue control error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 107 | Feedback approximation model data reference error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 109 | Speed corresponding position correction section multi step detection error | Setting error | Do not register more than two move instructions within the section "SFTON CSPD" and "SFTOF CSPD". |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 110 | Speed corresponding position correction control group error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 111 | Speed corresponding position correction start time ratio error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 112 | Speed corresponding position correction speed override level error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 65535 | For HA debug use | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4209: OFFLINE SYSTEM ERROR(ARITH)

A system error occurred in arithmetic section offline.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 100 | Data setting error in offline data bank | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 101 | Data setting error in offline answer bank | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 102 | OFF_USER_POS occupation control error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 103 | OFF_USER_POS valid control error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 104 | Mail-receiving error of offline task | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 105 | Offline occupation control error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 107 | OFF_USER_ROT_POS occupation control error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 108 | OFF_USER_ROT_POS valid control error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 109 | OFF_CV_CALIB_POS occupation control error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 110 | OFF_CV_CALIB_POS valid control error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 111 | Incorrect teaching for offline conveyor tracking turntable function | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4209: OFFLINE SYSTEM ERROR(ARITH) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 112 | No manipulator is designated for offline conveyor tracking turntable function. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 117 | Detour posture control setup process error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4210: SYSTEM ERROR(LOCAL VARIABLE)

A system error occurred in local variable processing section.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| -1 | Local variable is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -2 | Memory area for local variable could not be obtained. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -3 | No unused handle value exists when local variable area is created. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -4 | An error occurred in exclusive control. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -5 | Handle value is invalid for specified local variable. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -6 | Handle value is incorrect for specified local variable. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -7 | An error occurred when memory area for local variable was released. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -8 | An error occurred when memory area for local variable was registered. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -9 | Local variable control process is not initialized. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4210: SYSTEM ERROR(LOCAL VARIABLE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| -10 | Local variable area shared heap area. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -11 | An error occurred in exclusive control. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -12 | An error occurred in exclusive control when control of the local variable was processed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4220: SERVO POWER OFF FOR JOB

The servo power is not supplied to the job control group axis to be operated.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group | Setting error | Turn OFF the servo power supply, and then turn ON the servo power supply for the group axis to be operated. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4221: SERVO POWER OFF FOR JOB

The servo power is not supplied to the job control group axis to be operated.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group | The servo power is not supplied. | • Turn OFF the servo power supply, and then turn ON the servo power supply for the group axis to be operated. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4224: MEMOPLAY FILE ERROR

An error occurred in memory play file.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| -1 | An error occurred in control process for memory play file. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -2 | The arrangement address information is destroyed for memory play file system. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4224: MEMOPLAY FILE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| -3 | The fixed control information is destroyed for memory play file system. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -4 | The fixed control information is destroyed for memory play file system. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -5 | An attempt was made to newly register the memory play file under use. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -6 | An error occurred in checking written sampling data when the data was written to CMOS. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -7 | An attempt was made to access an unused memory play file data. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -8 | The memory play file is destroyed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -9 | The memory area for sampling data is full. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -10 | The sampling data is destroyed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -11 | Data in control process for memory play file is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -12 | The sampling data is scanned only at top or end position. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -13 | The memory play file system is not initialized. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -14 | The offset value is out of range at sampling data scanning. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4225: OVER SPEED(ACP01)

The motor real speed (feedback) exceeded the speed limit.
The speed limit is safety speed at teach mode and maximum speed at play mode.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Signifies the control axis number which detected an error | Setting error | Check the following settings.<br>• The gun tip hits the welded target distance of motor gun<br>• manipulator motion (external force, gravity) |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• The motor power line<br>• The encoder line |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the following unit.<br>• The motor |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4226: COMMUNICATION SERVICE ERROR

An error occurred at OPEN/CLOSE instruction execution.
The communication channel could not be opened/closed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The communication channel could not be opened/closed at OPEN/CLOSE instruction execution. | Setting error | Check the following settings.<br>• Setting of the RS (transmission) parameter |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 100 | The communication port is already opened. | Setting error | Check the following settings.<br>The serial port setting |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 101 | The communication port is not opened. | Setting error | Check the following settings.<br>The serial port setting |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 102 | No space was found in data sent buffer. | Setting error | Check the following settings.<br>The serial port setting |

**4226: COMMUNICATION SERVICE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 103 | The setting value for the event queue designation parameter is incorrect. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• RS157- - - Set to 1 to 4 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 105 | The type of output data is incorrect. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>The serial port setting |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4228: WRONG DATA

The YRC1000 divides the job; instruction data and position data, into separate files to save.
This alarm occurs if it detects the inconsistency between the Job instruction and position file.
The followings are the causes of the inconsistency.
Cause 1: Single position data is chained by the plural Job instruction data. (Overlapped chain)
Cause 2: Job instruction file chains the unregistered position data. (Unregistered position data chain)
Cause 3: Registered position data is not chained.(Unchained position data)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then execute following operation.<br>• Select a sub menu [WRONG DATA LOG] under main menu [SETUP].<br>• Execute "RESTORE" by selecting "UTILITY" from the pull-down menu.<br>*Occurrence date changes to restoration date after it is restored.<br>• Turn the power OFF and then ON to check the factor of the inconsistency 1 and 2, on the data inconsistency screen in maintenance mode .<br>The factor 1: Check the position of the corresponding file<br>The factor 2: Register the position of the corresponding file again<br>*The factor 3:Just turn the power OFF and then ON again.<br>2. If it would not restore, select "RE CHECK" from the pull-down menu.<br>3. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Data error | 1. If different axes configuration data is loaded, the system data becomes incorrect status, which causes this alarm. In this case, execute the following operations.<br>• Select a sub menu [WRONG DATA LOG] under main menu [SETUP].<br>• Select "UTILITY" from the pull-down menu to execute "RESTORE".<br>• Load correct axes configuration data<br>2. If it would not restore, select "RE CHECK" from the pull-down menu, and then load correct axes configuration data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4229: ETHERNET PROCESS ERROR

An error occurred when the Ethernet function was used.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error occurred in the acquisition process of the IP address during the IP address monitoring process of the Ethernet function.(LAN interface 2) | Setting error | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An error occurred in the acquisition process of subnet mask during the network service data creation process of the Ethernet function.(LAN interface 2) | Setting error | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | An error occurred in the acquisition process of gateway during the network service data creation process of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | An error occurred in the conversion process of gateway address during the network service data creation process of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |

**4229: ETHERNET PROCESS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | An error occurred in the conversion process of DNS server address during the network service data creation process of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | An error occurred in the acquisition process of domain during the network service data creation process of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | An error occurred in the acquisition process of SNTP server during the network service data creation process of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4229: ETHERNET PROCESS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8 | An error occurred in the acquisition process of host name during the network service data creation process of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | An error occurred in the newest DNS information getting process from DHCP server in the DNS process of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | An error occurred in the setting process to update DNS information in the DNS process of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | An error occurred in the setting clearing process to update DNS information in the DNS process of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

### 4229: ETHERNET PROCESS ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 20 | The subnet mask was not able to be acquired in the DHCP information update process of the Ethernet function.(LAN interface 2) | Setting error | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | Subnet mask update error occurred in the DHCP information update process of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 25 | Gateway update error occurred in the DHCP information update process of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 26 | Gateway clear error occurred in the DHCP information update process of the Ethernet function. | Setting error | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4229: ETHERNET PROCESS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 35 | IP address duplication was detected.(LAN interface 2) | Setting error | Check the following settings.<br>• IP address setting of LAN interface in maintenance mode<br>• IP addresses of other devices in the network. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| 36 | IP address duplication was detected. | Setting error | Check the following settings.<br>• IP address setting of LAN interface in maintenance mode<br>• IP addresses of other devices in the network. |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| 40 | IP address can not be gotten or can not be updated via DHCP. (LAN interface 2) | Setting error | Check the following settings and status.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| 50 | Gateway setting is faulted. | Software operation error occurred | Check the following settings.<br>• Default gateway setting of LAN interface in maintenance mode<br>• Leased IP address, when getting IP address from DHCP. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |

### 4229: ETHERNET PROCESS ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 51 | Static route setting is faulted. (LAN interface 2, route 1) | Software operation error occurred | Check the following settings.<br>• Static route setting of LAN interface in maintenance mode<br>• Leased IP address, when getting IP address from DHCP. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| 52 | NAT setting is faulted.(LAN interface 2) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| 53 | The host address to be used in ethernet function is not configured correctly. | Software operation error occurred | Check the following settings.<br>• The host address setting of LAN interface in maintenance mode |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| 151 | Static route setting is faulted. (LAN interface 2, route 2) | Software operation error occurred | Check the following settings.<br>• Static route setting of LAN interface in maintenance mode<br>• Leased IP address, when getting IP address from DHCP. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| 1001 | An error occurred in the acquisition process of the IP address during the IP address monitoring process of the Ethernet function.(LAN interface 3) | Software operation error occurred | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |

**4229: ETHERNET PROCESS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1002 | An error occurred in the acquisition process of subnet mask during the network service data creation process of the Ethernet function.(LAN interface 3) | Software operation error occurred | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| 1020 | The subnet mask was not able to be acquired in the DHCP information update process of the Ethernet function.(LAN interface 3) | Software operation error occurred | Check the following settings.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| 1035 | IP address duplication was detected.(LAN interface 3) | Software operation error occurred | Check the following settings.<br>• IP address setting of LAN interface in maintenance mode<br>• IP addresses of other devices in the network. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| 1040 | IP address can not be gotten or can not be updated via DHCP. (LAN interface 3) | Software operation error occurred | Check the following settings and status.<br>• The DHCP server operation (If the DHCP is used)<br>• The network status (If the DHCP is used) |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| 1051 | Static route setting is faulted. (LAN interface 3, route 1) | Software operation error occurred | Check the following settings.<br>• Static route setting of LAN interface in maintenance mode<br>• Leased IP address, when getting IP address from DHCP. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |

**4229: ETHERNET PROCESS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1052 | NAT setting is faulted.(LAN interface 3) | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD CARD from the failure ACP01 board to insert it into the new ACP01 board. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |
| 1151 | Static route setting is faulted. (LAN interface 3, route 2) | Software operation error occurred | Check the following settings.<br>• Static route setting of LAN interface in maintenance mode<br>• Leased IP address, when getting IP address from DHCP. |
| | | ACP01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then remove the SD from the failure ACP01 board to insert it into the new ACP01 board. |

## ◆ 4234: COMMUNICATION TIMEOUT(IO MODULE)

An error was detected in communications timeout with the I/O module board when the control power turned ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | The IO module board connected with 0th serial bus exists. | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• CN509 cable of SDCA01 board<br>• The cable of SDCA01 board connector CN515/516<br>• CNBX connector of SDCA01 board and ASF01 board<br>• PCIe connector of AIF01 board<br>• The cable of AIF01 board connector CN113 |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |

**4234: COMMUNICATION TIMEOUT(IO MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error was detected in communications timeout with the I/O module board connected with 1st serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An error was detected in communications timeout with the I/O module board connected with 2nd serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | An error was detected in communications timeout with the I/O module board connected with 3rd serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode |

**4234: COMMUNICATION TIMEOUT(IO MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | An error was detected in communications timeout with the I/O module board connected with 4th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | An error was detected in communications timeout with the I/O module board connected with 5th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode |

**4234: COMMUNICATION TIMEOUT(IO MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | An error was detected in communications timeout with the I/O module board connected with 6th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | An error was detected in communications timeout with the I/O module board connected with 7th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode |

**4234: COMMUNICATION TIMEOUT(IO MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | An error was detected in communications timeout with the I/O module board connected with 8th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | An error was detected in communications timeout with the I/O module board connected with 9th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode |

**4234: COMMUNICATION TIMEOUT(IO MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | An error was detected in communications timeout with the I/O module board connected with 10th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | An error was detected in communications timeout with the I/O module board connected with 11th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode |

**4234: COMMUNICATION TIMEOUT(IO MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | An error was detected in communications timeout with the I/O module board connected with 12th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | An error was detected in communications timeout with the I/O module board connected with 13th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode |

**4234: COMMUNICATION TIMEOUT(IO MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | An error was detected in communications timeout with the I/O module board connected with 14th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• MII communications cable (CN114) of the AIF01 board<br>• MII communications cable (CN300) of the YIU unit<br>• (In case of MII communications last station) Terminator<br>• 24V power of the YIU unit |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | An error was detected in communications timeout with the I/O module board connected with 15th serial bus when the control power turned ON. | Setting error | Check the following settings.<br>• The rotary switch setting which specifies slot numbers of each I/O module<br>• I/O module settings in maintenance mode |

**4234: COMMUNICATION TIMEOUT(IO MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• The MII communications cable which I/O module of the corresponding node number<br>• (In case of MII communications last station) Terminator<br>• 24V power of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | An error was detected in communications timeout with the I/O module board connected with 1st PCI connector when the control power turned ON. | Setting error | Check the following settings.<br>• PCI slot number in which each PCI board is mounted<br>• I/O module settings in maintenance mode |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCI board) |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | An error was detected in communications with the I/O module board connected with 2nd PCI when the control power turned ON. | Setting error | Check the following settings.<br>• PCI slot number in which each PCI board is mounted<br>• I/O module settings in maintenance mode |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCI board) |

**4234: COMMUNICATION TIMEOUT(IO MODULE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | An error was detected in communications timeout with the I/O module board connected with 3rd PCI when the control power turned ON. | Setting error | Check the following settings.<br>• PCI slot number in which each PCI board is mounted<br>• I/O module settings in maintenance mode |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCI board) |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | An error was detected in communications timeout with the I/O module board connected with 4th PCI when the control power turned ON. | Setting error | Check the following settings.<br>• PCI slot number in which each PCI board is mounted<br>• I/O module settings in maintenance mode |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the corresponding I/O module |
| | | I/O module failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCI board) |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4240: TPS:ERROR

An error occurred in the Fronius welding power source.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Welding power source number. | Error occurred in the Fronius power source. | Confirm the following content.<br>Step1: Check what kind of the error code is expressed on the front panel of Fronius power source.<br>Step2: Check according with the Fronius's manual. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4241: MOTOWELD SYSTEM RESET

System software on the welding power source is resetting now.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | When finish system reset, Shut down the welding power source. |
| | | Other | If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | When finish system reset, Shut down the welding power source. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | When finish system reset, Shut down the welding power source. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | When finish system reset, Shut down the welding power source. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | When finish system reset, Shut down the welding power source. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | When finish system reset, Shut down the welding power source. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | When finish system reset, Shut down the welding power source. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4241: MOTOWELD SYSTEM RESET (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8 | Error from welder 8. | Arc welding power source error | When finish system reset, Shut down the welding power source. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 302 | Sub code : Error No. from welder. | Arc welding power source error | When finish system reset, Shut down the welding power source. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4242: MOTOWELD INPUT OVER-CURRENT

Overcurrent flows in the primary control circuit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | 1. Check if the output cable is short-circuited or grounded.<br>2. The power circuit may be broken. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | 1. Check if the output cable is short-circuited or grounded.<br>2. The power circuit may be broken. Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | 1. Check if the output cable is short-circuited or grounded.<br>2. The power circuit may be broken. Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | 1. Check if the output cable is short-circuited or grounded.<br>2. The power circuit may be broken. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | 1. Check if the output cable is short-circuited or grounded.<br>2. The power circuit may be broken. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | 1. Check if the output cable is short-circuited or grounded.<br>2. The power circuit may be broken. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | 1. Check if the output cable is short-circuited or grounded.<br>2. The power circuit may be broken. Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | 1. Check if the output cable is short-circuited or grounded.<br>2. The power circuit may be broken. Contact your YASKAWA representative. |
| 107 | Sub code : Error No. from welder. | Arc welding power source error | 1. Check if the output cable is short-circuited or grounded.<br>2. The power circuit may be broken. Contact your YASKAWA representative. |

## ◆ 4243: MOTOWELD OUTPUT OVER-CURRENT

Overcurrent flows in the secondary control circuit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Confirm the following content.<br>1. Check that the torch cable or power cable is not grounded?<br>2. Check that the contact tip does not contact the welding work piece?<br>3. Check that the encoder cable is not damaged?<br>4. Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | Confirm the following content.<br>1. Check that the torch cable or power cable is not grounded?<br>2. Check that the contact tip does not contact the welding work piece?<br>3. Check that the encoder cable is not damaged?<br>4. Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | Confirm the following content.<br>1. Check that the torch cable or power cable is not grounded?<br>2. Check that the contact tip does not contact the welding work piece?<br>3. Check that the encoder cable is not damaged?<br>4. Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4243: MOTOWELD OUTPUT OVER-CURRENT (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4 | Error from welder 4. | Arc welding power source error | Confirm the following content.<br>1. Check that the torch cable or power cable is not grounded?<br>2. Check that the contact tip does not contact the welding work piece?<br>3. Check that the encoder cable is not damaged?<br>4. Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | Confirm the following content.<br>1. Check that the torch cable or power cable is not grounded?<br>2. Check that the contact tip does not contact the welding work piece?<br>3. Check that the encoder cable is not damaged?<br>4. Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | Confirm the following content.<br>1. Check that the torch cable or power cable is not grounded?<br>2. Check that the contact tip does not contact the welding work piece?<br>3. Check that the encoder cable is not damaged?<br>4. Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4243: MOTOWELD OUTPUT OVER-CURRENT (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 7 | Error from welder 7. | Arc welding power source error | Confirm the following content.<br>1. Check that the torch cable or power cable is not grounded?<br>2. Check that the contact tip does not contact the welding work piece?<br>3. Check that the encoder cable is not damaged?<br>4. Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | Confirm the following content.<br>1. Check that the torch cable or power cable is not grounded?<br>2. Check that the contact tip does not contact the welding work piece?<br>3. Check that the encoder cable is not damaged?<br>4. Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 701 | Sub code : Error No. from welder. | Arc welding power source error | Confirm the following content.<br>1. Check that the torch cable or power cable is not grounded?<br>2. Check that the contact tip does not contact the welding work piece?<br>3. Check that the encoder cable is not damaged?<br>4. Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4244: MOTOWELD INPUT OVER-VOLTAGE

Primary input voltage exceeding 550V is applied continuously for two seconds.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Confirm the input voltage. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | Confirm the input voltage. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | Confirm the input voltage. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | Confirm the input voltage. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | Confirm the input voltage. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | Confirm the input voltage. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | Confirm the input voltage. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | Confirm the input voltage. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4245: MOTOWELD EXCESSIVE TEMPERATURE

The temperature in the welding source.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | 1. Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%).<br>2. Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary.<br>3. In case of RL350, Check the thermal guard (Item No.410). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | 1. Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%).<br>2. Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary.<br>3. In case of RL350, Check the thermal guard (Item No.410). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | 1. Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%).<br>2. Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary.<br>3. In case of RL350, Check the thermal guard (Item No.410). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | 1. Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%).<br>2. Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary.<br>3. In case of RL350, Check the thermal guard (Item No.410). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | 1. Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%).<br>2. Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary.<br>3. In case of RL350, Check the thermal guard (Item No.410). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4245: MOTOWELD EXCESSIVE TEMPERATURE (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 6 | Error from welder 6. | Arc welding power source error | 1. Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%).<br>2. Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary.<br>3. In case of RL350, Check the thermal guard (Item No.410). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | 1. Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%).<br>2. Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary.<br>3. In case of RL350, Check the thermal guard (Item No.410). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | 1. Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%).<br>2. Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary.<br>3. In case of RL350, Check the thermal guard (Item No.410). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 102 | The temperature in the primary control circuit exceeds the specified value of the welding source. | Arc welding power source error | 1. Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%).<br>2. Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary.<br>3. In case of RL350, Check the thermal guard of primary side (Item No.410).<br>In case of X350, Check the thermal guard of primary side(Item No.410). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 103 | The temperature in the secondary control circuit exceeds the specified value of the welding source. | Arc welding power source error | 1. Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%).<br>2. Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary.<br>3. In case of RL350, Check the thermal guard of secondary side (Item No.318).<br>In case of X350, Check the thermal guard of secondary side (Item No.410). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4245: MOTOWELD EXCESSIVE TEMPERATURE (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 105 | The temperature in the DC reactor exceeds the specified value of the welding source. | Arc welding power source error | 1. Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%).<br>2. Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary.<br>3. In case of RL350, Check the thermal guard of DCL2 (Item No.312).<br>In case of X350, Check the thermal guard of DCL2 (Item No.514). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 340 | The temperature in the Main board Pr(MB) exceeds the specified value of the welding source. | Arc welding power source error | 1. Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%).<br>2. Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary.<br>3. Replace the Main board Pr(MB)-030(Item No. 504). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4246: MOTOWELD INPUT UNDER-VOLTAGE

Primary input voltage is lower than 390V continuously fir two seconds.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Confirm the input voltage. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | Confirm the input voltage. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | Confirm the input voltage. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | Confirm the input voltage. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | Confirm the input voltage. |

**4246: MOTOWELD INPUT UNDER-VOLTAGE (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | Confirm the input voltage. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | Confirm the input voltage. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | Confirm the input voltage. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4247: MOTOWELD WATER UNDER-FLOW

Hydraulic pressure is drop.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | 1. Fill up the cooling water.<br>2. Check the circuit of cooling water. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | 1. Fill up the cooling water.<br>2. Check the circuit of cooling water. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | 1. Fill up the cooling water.<br>2. Check the circuit of cooling water. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | 1. Fill up the cooling water.<br>2. Check the circuit of cooling water. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | 1. Fill up the cooling water.<br>2. Check the circuit of cooling water. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4247: MOTOWELD WATER UNDER-FLOW (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 6 | Error from welder 6. | Arc welding power source error | 1. Fill up the cooling water.<br>2. Check the circuit of cooling water. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | 1. Fill up the cooling water.<br>2. Check the circuit of cooling water. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | 1. Fill up the cooling water.<br>2. Check the circuit of cooling water. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 703 | Sub code : Error No. from welder. | Arc welding power source error | 1. Fill up the cooling water.<br>2. Check the circuit of cooling water. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4248: MOTOWELD DIGITAL I/F WDG.ERROR

The communication between the welding power source and the robot controller was suspended.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Confirm the following content.<br>1. The LAN cable has not damaged.<br>2. The Ethernet protocol address setting is correct. (Check that C parameter of the welding power source and RS parameter of the robot controller.)<br>3. Welding power source is turn on.<br>4. Please confirm the Ethernet setting (Ethernet function is effective<br>and sets an IP address (RS parameter ,AxP parameter)) of the robot control unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | Confirm the following content.<br>1. The LAN cable has not damaged.<br>2. The Ethernet protocol address setting is correct. (Check that C parameter of the welding power source and RS parameter of the robot controller.)<br>3. Welding power source is turn on.<br>4. Please confirm the Ethernet setting (Ethernet function is effective<br>and sets an IP address (RS parameter ,AxP parameter)) of the robot control unit. |

**4248: MOTOWELD DIGITAL I/F WDG.ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | Confirm the following content.<br>1. The LAN cable has not damaged.<br>2. The Ethernet protocol address setting is correct. (Check that C parameter of the welding power source and RS parameter of the robot controller.)<br>3. Welding power source is turn on.<br>4. Please confirm the Ethernet setting (Ethernet function is effective<br>and sets an IP address (RS parameter ,AxP parameter)) of the robot control unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | Confirm the following content.<br>1. The LAN cable has not damaged.<br>2. The Ethernet protocol address setting is correct. (Check that C parameter of the welding power source and RS parameter of the robot controller.)<br>3. Welding power source is turn on.<br>4. Please confirm the Ethernet setting (Ethernet function is effective<br>and sets an IP address (RS parameter ,AxP parameter)) of the robot control unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | Confirm the following content.<br>1. The LAN cable has not damaged.<br>2. The Ethernet protocol address setting is correct. (Check that C parameter of the welding power source and RS parameter of the robot controller.)<br>3. Welding power source is turn on.<br>4. Please confirm the Ethernet setting (Ethernet function is effective<br>and sets an IP address (RS parameter ,AxP parameter)) of the robot control unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | Confirm the following content.<br>1. The LAN cable has not damaged.<br>2. The Ethernet protocol address setting is correct. (Check that C parameter of the welding power source and RS parameter of the robot controller.)<br>3. Welding power source is turn on.<br>4. Please confirm the Ethernet setting (Ethernet function is effective<br>and sets an IP address (RS parameter ,AxP parameter)) of the robot control unit. |

**4248: MOTOWELD DIGITAL I/F WDG.ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | Confirm the following content.<br>1. The LAN cable has not damaged.<br>2. The Ethernet protocol address setting is correct. (Check that C parameter of the welding power source and RS parameter of the robot controller.)<br>3. Welding power source is turn on.<br>4. Please confirm the Ethernet setting (Ethernet function is effective<br>and sets an IP address (RS parameter ,AxP parameter)) of the robot control unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | Confirm the following content.<br>1. The LAN cable has not damaged.<br>2. The Ethernet protocol address setting is correct. (Check that C parameter of the welding power source and RS parameter of the robot controller.)<br>3. Welding power source is turn on.<br>4. Please confirm the Ethernet setting (Ethernet function is effective<br>and sets an IP address (RS parameter ,AxP parameter)) of the robot control unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 401 | Sub code : Error No. from welder. | Arc welding power source error | Confirm the following content.<br>1. The LAN cable has not damaged.<br>2. The Ethernet protocol address setting is correct. (Check that C parameter of the welding power source and RS parameter of the robot controller.)<br>3. Welding power source is turn on.<br>4. Please confirm the Ethernet setting (Ethernet function is effective<br>and sets an IP address (RS parameter ,AxP parameter)) of the robot control unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4249: MOTOWELD DIGITAL I/F NODE ERROR

In CAN-interface for welder power source, the Node setting is duplicated.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Check the Node of the each welder power sources and robot controller. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | Check the Node of the each welder power sources and robot controller. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | Check the Node of the each welder power sources and robot controller. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | Check the Node of the each welder power sources and robot controller. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | Check the Node of the each welder power sources and robot controller. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | Check the Node of the each welder power sources and robot controller. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | Check the Node of the each welder power sources and robot controller. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | Check the Node of the each welder power sources and robot controller. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 402 | Sub code : Error No. from welder. | Arc welding power source error | Check the Node of the each welder power sources and robot controller. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4250: MOTOWELD DIGITAL I/F ERROR

Welder power source receive the unknown message.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Confirm the following content.<br>1. LAN cable is not damaged.<br>2. Protocol type of the VEW01 is correct. (is MOTOWELD type?) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | Confirm the following content.<br>1. LAN cable is not damaged.<br>2. Protocol type of the VEW01 is correct. (is MOTOWELD type?) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | Confirm the following content.<br>1. LAN cable is not damaged.<br>2. Protocol type of the VEW01 is correct. (is MOTOWELD type?) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | Confirm the following content.<br>1. LAN cable is not damaged.<br>2. Protocol type of the VEW01 is correct. (is MOTOWELD type?) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | Confirm the following content.<br>1. LAN cable is not damaged.<br>2. Protocol type of the VEW01 is correct. (is MOTOWELD type?) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | Confirm the following content.<br>1. LAN cable is not damaged.<br>2. Protocol type of the VEW01 is correct. (is MOTOWELD type?) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | Confirm the following content.<br>1. LAN cable is not damaged.<br>2. Protocol type of the VEW01 is correct. (is MOTOWELD type?) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4250: MOTOWELD DIGITAL I/F ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8 | Error from welder 8. | Arc welding power source error | Confirm the following content.<br>1. LAN cable is not damaged.<br>2. Protocol type of the VEW01 is correct. (is MOTOWELD type?) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 403 | Sub code : Error No. from welder. | Arc welding power source error | Confirm the following content.<br>1. LAN cable is not damaged.<br>2. Protocol type of the VEW01 is correct. (is MOTOWELD type?) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4251: MOTOWELD DIGITAL I/F FILE# ERROR

The user file number is out of range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Set the user file number 1.16. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | Set the user file number 1.16. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | Set the user file number 1.16. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | Set the user file number 1.16. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | Set the user file number 1.16. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | Set the user file number 1.16. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4251: MOTOWELD DIGITAL I/F FILE# ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 7 | Error from welder 7. | Arc welding power source error | Set the user file number 1.16. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | Set the user file number 1.16. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 404 | Sub code : Error No. from welder. | Arc welding power source error | Set the user file number 1.16. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4252: MOTOWELD DIGITAL I/F CHIP ERROR

Network interface chip is broke down.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Replace the main board {Pr(MB) -024}. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | Replace the main board {Pr(MB) -024}. Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | Replace the main board {Pr(MB) -024}. Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | Replace the main board {Pr(MB) -024}. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | Replace the main board {Pr(MB) -024}. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | Replace the main board {Pr(MB) -024}. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | Replace the main board {Pr(MB) -024}. Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | Replace the main board {Pr(MB) -024}. Contact your YASKAWA representative. |
| 405 | Sub code : Error No. from welder. | Arc welding power source error | Replace the main board {Pr(MB) -024}. Contact your YASKAWA representative. |

## ◆ 4253: MOTOWELD MACHINE TYP.ERROR1

Nonconformity in the model setting of hardware and software.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |

**4253: MOTOWELD MACHINE TYP.ERROR1 (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3 | Error from welder 3. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 304 | Sub code : Error No. from welder. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |

## ◆ 4254: MOTOWELD MACHINE TYP.ERROR2

Nonconformity in the model setting of hardware and software.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 305 | Sub code : Error No. from welder. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |

## ◆ 4255: MOTOWELD MACHINE TYP.ERROR3

Nonconformity in the model setting of hardware and software.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |

**4255: MOTOWELD MACHINE TYP.ERROR3 (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3 | Error from welder 3. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 306 | Sub code : Error No. from welder. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |

## ◆ 4256: MOTOWELD MACHINE TYP.ERROR4

Nonconformity in the model setting of hardware and software.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |
| 307 | Sub code : Error No. from welder. | Arc welding power source error | The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative. |

## ◆ 4257: MOTOWELD PANEL SW SETTING ERROR

The DIP switch of PR(CR) -002R1 board is not correctly set.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | 1. Check the DIP switch setting of EL350:PR(CR) -008/ RP500:WK-7036 board.<br>2. EL350:PR(CR) -008/RP500:WK-7036 board may be broken. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | 1. Check the DIP switch setting of EL350:PR(CR) -008/ RP500:WK-7036 board.<br>2. EL350:PR(CR) -008/RP500:WK-7036 board may be broken. Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | 1. Check the DIP switch setting of EL350:PR(CR) -008/ RP500:WK-7036 board.<br>2. EL350:PR(CR) -008/RP500:WK-7036 board may be broken. Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | 1. Check the DIP switch setting of EL350:PR(CR) -008/ RP500:WK-7036 board.<br>2. EL350:PR(CR) -008/RP500:WK-7036 board may be broken. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | 1. Check the DIP switch setting of EL350:PR(CR) -008/ RP500:WK-7036 board.<br>2. EL350:PR(CR) -008/RP500:WK-7036 board may be broken. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | 1. Check the DIP switch setting of EL350:PR(CR) -008/ RP500:WK-7036 board.<br>2. EL350:PR(CR) -008/RP500:WK-7036 board may be broken. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | 1. Check the DIP switch setting of EL350:PR(CR) -008/ RP500:WK-7036 board.<br>2. EL350:PR(CR) -008/RP500:WK-7036 board may be broken. Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | 1. Check the DIP switch setting of EL350:PR(CR) -008/ RP500:WK-7036 board.<br>2. EL350:PR(CR) -008/RP500:WK-7036 board may be broken. Contact your YASKAWA representative. |
| 303 | Sub code : Error No. from welder. | Arc welding power source error | 1. Check the DIP switch setting of EL350:PR(CR) -008/ RP500:WK-7036 board.<br>2. EL350:PR(CR) -008/RP500:WK-7036 board may be broken. Contact your YASKAWA representative. |

## ◆ 4258: MOTOWELD FEEDER ERROR

The welding wire was not fed as instructed by the feeding amount command value.
There is a certain difference between the feeding amount command value and the feedback from the encoder.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Confirm the following content.<br>1. The encoder cable be not damaged?<br>2. Isn't there loosening of the screw of the encoder cable connection terminal block?<br>When there are a disconnection of the encoder cable or loosening of the screw, the wire feeding speed quickens abnormally, and it becomes an abnormal amount of feeding. Replace the encoder cable or fasten the screw of the terminal block.<br>3. Check if the wire load becomes heavy. Make sure that the torch cable and conduit cable are not bent excessively. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | Confirm the following content.<br>1. The encoder cable be not damaged?<br>2. Isn't there loosening of the screw of the encoder cable connection terminal block?<br>When there are a disconnection of the encoder cable or loosening of the screw, the wire feeding speed quickens abnormally, and it becomes an abnormal amount of feeding. Replace the encoder cable or fasten the screw of the terminal block.<br>3. Check if the wire load becomes heavy. Make sure that the torch cable and conduit cable are not bent excessively. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | Confirm the following content.<br>1. The encoder cable be not damaged?<br>2. Isn't there loosening of the screw of the encoder cable connection terminal block?<br>When there are a disconnection of the encoder cable or loosening of the screw, the wire feeding speed quickens abnormally, and it becomes an abnormal amount of feeding. Replace the encoder cable or fasten the screw of the terminal block.<br>3. Check if the wire load becomes heavy. Make sure that the torch cable and conduit cable are not bent excessively. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4258: MOTOWELD FEEDER ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4 | Error from welder 4. | Arc welding power source error | Confirm the following content.<br>1. The encoder cable be not damaged?<br>2. Isn't there loosening of the screw of the encoder cable connection terminal block?<br>When there are a disconnection of the encoder cable or loosening of the screw, the wire feeding speed quickens abnormally, and it becomes an abnormal amount of feeding. Replace the encoder cable or fasten the screw of the terminal block.<br>3. Check if the wire load becomes heavy. Make sure that the torch cable and conduit cable are not bent excessively. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | Confirm the following content.<br>1. The encoder cable be not damaged?<br>2. Isn't there loosening of the screw of the encoder cable connection terminal block?<br>When there are a disconnection of the encoder cable or loosening of the screw, the wire feeding speed quickens abnormally, and it becomes an abnormal amount of feeding. Replace the encoder cable or fasten the screw of the terminal block.<br>3. Check if the wire load becomes heavy. Make sure that the torch cable and conduit cable are not bent excessively. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | Confirm the following content.<br>1. The encoder cable be not damaged?<br>2. Isn't there loosening of the screw of the encoder cable connection terminal block?<br>When there are a disconnection of the encoder cable or loosening of the screw, the wire feeding speed quickens abnormally, and it becomes an abnormal amount of feeding. Replace the encoder cable or fasten the screw of the terminal block.<br>3. Check if the wire load becomes heavy. Make sure that the torch cable and conduit cable are not bent excessively. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | Confirm the following content.<br>1. The encoder cable be not damaged?<br>2. Isn't there loosening of the screw of the encoder cable connection terminal block?<br>When there are a disconnection of the encoder cable or loosening of the screw, the wire feeding speed quickens abnormally, and it becomes an abnormal amount of feeding. Replace the encoder cable or fasten the screw of the terminal block.<br>3. Check if the wire load becomes heavy. Make sure that the torch cable and conduit cable are not bent excessively. |

**4258: MOTOWELD FEEDER ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | Confirm the following content.<br>1. The encoder cable be not damaged?<br>2. Isn't there loosening of the screw of the encoder cable connection terminal block? When there are a disconnection of the encoder cable or loosening of the screw, the wire feeding speed quickens abnormally, and it becomes an abnormal amount of feeding. Replace the encoder cable or fasten the screw of the terminal block.<br>3. Check if the wire load becomes heavy. Make sure that the torch cable and conduit cable are not bent excessively. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 501 | Sub code : Error No. from welder. | Arc welding power source error | Confirm the following content.<br>1. The encoder cable be not damaged?<br>2. Isn't there loosening of the screw of the encoder cable connection terminal block? When there are a disconnection of the encoder cable or loosening of the screw, the wire feeding speed quickens abnormally, and it becomes an abnormal amount of feeding. Replace the encoder cable or fasten the screw of the terminal block.<br>3. Check if the wire load becomes heavy. Make sure that the torch cable and conduit cable are not bent excessively. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 331 | The status of dip switch for encoder circuit is different to the encoder of the feeder motor. | Arc welding power source error | 1. Confirm the feeder motor type.<br>2. Check the C parameter for feeder motor is correct.<br>3. Check the dip switch SW700 on the Main board Pr(MB). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4259: MOTOWELD MOTOR OVER-CURRENT

Overcurrent above the rated current flows in the motor circuit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Check if the wire load becomes heavy. Make sure that the torch cable and coduit cable are not bent excessively. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | Check if the wire load becomes heavy. Make sure that the torch cable and coduit cable are not bent excessively. |

**4259: MOTOWELD MOTOR OVER-CURRENT (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | Check if the wire load becomes heavy. Make sure that the torch cable and coduit cable are not bent excessively. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | Check if the wire load becomes heavy. Make sure that the torch cable and coduit cable are not bent excessively. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | Check if the wire load becomes heavy. Make sure that the torch cable and coduit cable are not bent excessively. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | Check if the wire load becomes heavy. Make sure that the torch cable and coduit cable are not bent excessively. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | Check if the wire load becomes heavy. Make sure that the torch cable and coduit cable are not bent excessively. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | Check if the wire load becomes heavy. Make sure that the torch cable and coduit cable are not bent excessively. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 502 | Sub code : Error No. from welder. | Arc welding power source error | Check if the wire load becomes heavy. Make sure that the torch cable and coduit cable are not bent excessively. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4260: MOTOWELD CPU ERROR1

A communication error between CPU1 and CPU2 occurs.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |

**4260: MOTOWELD CPU ERROR1 (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4 | Error from welder 4. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 203 | Sub code : Error No. from welder. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |

## ◆ 4261: MOTOWELD CPU ERROR2

A communication error between CPU1 and CPU2 occurs.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 204 | Sub code : Error No. from welder. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |

## ◆ 4262: MOTOWELD MEMORY ERROR1

An error occurs in the data in the welding power source internal memory.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |

**4262: MOTOWELD MEMORY ERROR1 (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8 | Error from welder 8. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 205 | Sub code : Error No. from welder. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |

## ◆ 4263: MOTOWELD MEMORY ERROR2

An error occurs in the data in the welding power source internal memory.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |

**4263: MOTOWELD MEMORY ERROR2 (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 7 | Error from welder 7. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 215 | Sub code : Error No. from welder. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |

## ◆ 4264: MOTOWELD MEMORY ERROR3

An error occurs in the data in the welding power source internal memory.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |

**4264: MOTOWELD MEMORY ERROR3 (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 6 | Error from welder 6. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 206 | Sub code : Error No. from welder. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |

## ◆ 4265: MOTOWELD MEMORY ERROR4

An error occurs in the data in the welding power source internal memory.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |

**4265: MOTOWELD MEMORY ERROR4 (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 5 | Error from welder 5. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 207 | Sub code : Error No. from welder. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |

## ◆ 4266: MOTOWELD MEMORY ERROR5

An error occurs in the data in the welding power source internal memory.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |

**4266: MOTOWELD MEMORY ERROR5 (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4 | Error from welder 4. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 208 | Sub code : Error No. from welder. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |

## ◆ 4267: MOTOWELD MEMORY ERROR6

An error occurs in the data in the welding power source internal memory.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |

**4267: MOTOWELD MEMORY ERROR6 (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3 | Error from welder 3. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 209 | Sub code : Error No. from welder. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |

## ◆ 4268: MOTOWELD MEMORY ERROR7

An error occurs in the data in the welding power source internal memory.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |

**4268: MOTOWELD MEMORY ERROR7 (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8 | Error from welder 8. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |
| 210 | Sub code : Error No. from welder. | Arc welding power source error | The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset")<br>If the error occurs again, the board may be broken. Contact your YASKAWA representative. |

## ◆ 4269: MOTOWELD STARTING SIGNAL ERROR

Arc starting signal is input before the welding power source's main power supply starts up.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Check again the operation timing or signal cable connections. The same error may occur at momentary power failure. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | Check again the operation timing or signal cable connections. The same error may occur at momentary power failure. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | Check again the operation timing or signal cable connections. The same error may occur at momentary power failure. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | Check again the operation timing or signal cable connections. The same error may occur at momentary power failure. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | Check again the operation timing or signal cable connections. The same error may occur at momentary power failure. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | Check again the operation timing or signal cable connections. The same error may occur at momentary power failure. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | Check again the operation timing or signal cable connections. The same error may occur at momentary power failure. |

**4269: MOTOWELD STARTING SIGNAL ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | Check again the operation timing or signal cable connections. The same error may occur at momentary power failure. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 601 | Sub code : Error No. from welder. | Arc welding power source error | Check again the operation timing or signal cable connections. The same error may occur at momentary power failure. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4270: MOTOWELD NO WELDING TYPE

Execution arc start without welding process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Select a correct welding process in the using the welding user file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | Select a correct welding process in the using the welding user file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | Select a correct welding process in the using the welding user file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | Select a correct welding process in the using the welding user file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | Select a correct welding process in the using the welding user file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | Select a correct welding process in the using the welding user file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | Select a correct welding process in the using the welding user file. |

**4270: MOTOWELD NO WELDING TYPE (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | Select a correct welding process in the using the welding user file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 602 | Sub code : Error No. from welder. | Arc welding power source error | Select a correct welding process in the using the welding user file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4271: MOTOWELD VOLT.DETECT WIRE ERROR

The welding voltage is not detected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | 1. Check if the voltage detection wire is connected. Check to confirm that the welding voltage sensing cable select switch is set to "Base Metal".<br>The use of MOTOWELD-RP500/EL350:<br>Check to confirm that the voltage sensing cable is connected between the base metal and the terminal block TB2 7.<br>The use of other MOTOWELD welders:<br>Check to confirm that the base metal-side welding voltage sensing cable connects between the base metal and the welding power source via wire feeder cable.<br>2. Check to confirm that the contact chip and the welding work are not in contact. Cancel the contact if any, and weld them.<br>3. Temporary power failure may have occurred.<br>4. When the welding voltage sensing cable is used, please connect the welding voltage sensing cable to the base metal.<br>5. When the AC unit used, a weldingpower source output cable, please confirm whether the output cable of the wiring of the AC unit is not a mistake.<br>6. When the AC unit used, please make sure that the power of the AC unit is turned on. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4271: MOTOWELD VOLT.DETECT WIRE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | Error from welder 2. | Arc welding power source error | 1. Check if the voltage detection wire is connected. Check to confirm that the welding voltage sensing cable select switch is set to "Base Metal".<br>The use of MOTOWELD-RP500/EL350:<br>Check to confirm that the voltage sensing cable is connected between the base metal and the terminal block TB2 7.<br>The use of other MOTOWELD welders:<br>Check to confirm that the base metal-side welding voltage sensing cable connects between the base metal and the welding power source via wire feeder cable.<br>2. Check to confirm that the contact chip and the welding work are not in contact. Cancel the contact if any, and weld them.<br>3. Temporary power failure may have occurred.<br>4. When the welding voltage sensing cable is used, please connect the welding voltage sensing cable to the base metal.<br>5. When the AC unit used, a weldingpower source output cable, please confirm whether the output cable of the wiring of the AC unit is not a mistake.<br>6. When the AC unit used, please make sure that the power of the AC unit is turned on. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | 1. Check if the voltage detection wire is connected. Check to confirm that the welding voltage sensing cable select switch is set to "Base Metal".<br>The use of MOTOWELD-RP500/EL350:<br>Check to confirm that the voltage sensing cable is connected between the base metal and the terminal block TB2 7.<br>The use of other MOTOWELD welders:<br>Check to confirm that the base metal-side welding voltage sensing cable connects between the base metal and the welding power source via wire feeder cable.<br>2. Check to confirm that the contact chip and the welding work are not in contact. Cancel the contact if any, and weld them.<br>3. Temporary power failure may have occurred.<br>4. When the welding voltage sensing cable is used, please connect the welding voltage sensing cable to the base metal.<br>5. When the AC unit used, a weldingpower source output cable, please confirm whether the output cable of the wiring of the AC unit is not a mistake.<br>6. When the AC unit used, please make sure that the power of the AC unit is turned on. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

### 4271: MOTOWELD VOLT.DETECT WIRE ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4 | Error from welder 4. | Arc welding power source error | 1. Check if the voltage detection wire is connected. Check to confirm that the welding voltage sensing cable select switch is set to "Base Metal".<br>The use of MOTOWELD-RP500/EL350:<br>Check to confirm that the voltage sensing cable is connected between the base metal and the terminal block TB2 7.<br>The use of other MOTOWELD welders:<br>Check to confirm that the base metal-side welding voltage sensing cable connects between the base metal and the welding power source via wire feeder cable.<br>2. Check to confirm that the contact chip and the welding work are not in contact. Cancel the contact if any, and weld them.<br>3. Temporary power failure may have occurred.<br>4. When the welding voltage sensing cable is used, please connect the welding voltage sensing cable to the base metal.<br>5. When the AC unit used, a weldingpower source output cable, please confirm whether the output cable of the wiring of the AC unit is not a mistake.<br>6. When the AC unit used, please make sure that the power of the AC unit is turned on. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | 1. Check if the voltage detection wire is connected. Check to confirm that the welding voltage sensing cable select switch is set to "Base Metal".<br>The use of MOTOWELD-RP500/EL350:<br>Check to confirm that the voltage sensing cable is connected between the base metal and the terminal block TB2 7.<br>The use of other MOTOWELD welders:<br>Check to confirm that the base metal-side welding voltage sensing cable connects between the base metal and the welding power source via wire feeder cable.<br>2. Check to confirm that the contact chip and the welding work are not in contact. Cancel the contact if any, and weld them.<br>3. Temporary power failure may have occurred.<br>4. When the welding voltage sensing cable is used, please connect the welding voltage sensing cable to the base metal.<br>5. When the AC unit used, a weldingpower source output cable, please confirm whether the output cable of the wiring of the AC unit is not a mistake.<br>6. When the AC unit used, please make sure that the power of the AC unit is turned on. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4271: MOTOWELD VOLT.DETECT WIRE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 6 | Error from welder 6. | Arc welding power source error | 1. Check if the voltage detection wire is connected. Check to confirm that the welding voltage sensing cable select switch is set to "Base Metal".<br>The use of MOTOWELD-RP500/EL350:<br>Check to confirm that the voltage sensing cable is connected between the base metal and the terminal block TB2 7.<br>The use of other MOTOWELD welders:<br>Check to confirm that the base metal-side welding voltage sensing cable connects between the base metal and the welding power source via wire feeder cable.<br>2. Check to confirm that the contact chip and the welding work are not in contact. Cancel the contact if any, and weld them.<br>3. Temporary power failure may have occurred.<br>4. When the welding voltage sensing cable is used, please connect the welding voltage sensing cable to the base metal.<br>5. When the AC unit used, a weldingpower source output cable, please confirm whether the output cable of the wiring of the AC unit is not a mistake.<br>6. When the AC unit used, please make sure that the power of the AC unit is turned on. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | 1. Check if the voltage detection wire is connected. Check to confirm that the welding voltage sensing cable select switch is set to "Base Metal".<br>The use of MOTOWELD-RP500/EL350:<br>Check to confirm that the voltage sensing cable is connected between the base metal and the terminal block TB2 7.<br>The use of other MOTOWELD welders:<br>Check to confirm that the base metal-side welding voltage sensing cable connects between the base metal and the welding power source via wire feeder cable.<br>2. Check to confirm that the contact chip and the welding work are not in contact. Cancel the contact if any, and weld them.<br>3. Temporary power failure may have occurred.<br>4. When the welding voltage sensing cable is used, please connect the welding voltage sensing cable to the base metal.<br>5. When the AC unit used, a weldingpower source output cable, please confirm whether the output cable of the wiring of the AC unit is not a mistake.<br>6. When the AC unit used, please make sure that the power of the AC unit is turned on. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

### 4271: MOTOWELD VOLT.DETECT WIRE ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8 | Error from welder 8. | Arc welding power source error | 1. Check if the voltage detection wire is connected. Check to confirm that the welding voltage sensing cable select switch is set to "Base Metal".<br>The use of MOTOWELD-RP500/EL350:<br>Check to confirm that the voltage sensing cable is connected between the base metal and the terminal block TB2 7.<br>The use of other MOTOWELD welders:<br>Check to confirm that the base metal-side welding voltage sensing cable connects between the base metal and the welding power source via wire feeder cable.<br>2. Check to confirm that the contact chip and the welding work are not in contact. Cancel the contact if any, and weld them.<br>3. Temporary power failure may have occurred.<br>4. When the welding voltage sensing cable is used, please connect the welding voltage sensing cable to the base metal.<br>5. When the AC unit used, a weldingpower source output cable, please confirm whether the output cable of the wiring of the AC unit is not a mistake.<br>6. When the AC unit used, please make sure that the power of the AC unit is turned on. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 702 | Sub code : Error No. from welder. | Arc welding power source error | 1. Check if the voltage detection wire is connected. Check to confirm that the welding voltage sensing cable select switch is set to "Base Metal".<br>The use of MOTOWELD-RP500/EL350:<br>Check to confirm that the voltage sensing cable is connected between the base metal and the terminal block TB2 7.<br>The use of other MOTOWELD welders:<br>Check to confirm that the base metal-side welding voltage sensing cable connects between the base metal and the welding power source via wire feeder cable.<br>2. Check to confirm that the contact chip and the welding work are not in contact. Cancel the contact if any, and weld them.<br>3. Temporary power failure may have occurred.<br>4. When the welding voltage sensing cable is used, please connect the welding voltage sensing cable to the base metal.<br>5. When the AC unit used, a weldingpower source output cable, please confirm whether the output cable of the wiring of the AC unit is not a mistake.<br>6. When the AC unit used, please make sure that the power of the AC unit is turned on. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4272: MOTOWELD SAFTY-CIRCUIT ERROR

Safety circuit broken.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | Contact your YASKAWA representative. |
| 101 | Sub code : Error No. from welder. | Arc welding power source error | Contact your YASKAWA representative. |

## ◆ 4273: MOTOWELD IGBT SHORT CIRCUIT

The IGBT device of power circuit broken.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Replace the IGBT device (Part code AJ0EL3870). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | Replace the IGBT device (Part code AJ0EL3870). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | Replace the IGBT device (Part code AJ0EL3870). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | Replace the IGBT device (Part code AJ0EL3870). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | Replace the IGBT device (Part code AJ0EL3870). |

**4273: MOTOWELD IGBT SHORT CIRCUIT (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | Replace the IGBT device (Part code AJ0EL3870). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | Replace the IGBT device (Part code AJ0EL3870). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | Replace the IGBT device (Part code AJ0EL3870). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 104 | Sub code : Error No. from welder. | Arc welding power source error | Replace the IGBT device (Part code AJ0EL3870). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4274: MOTOWELD VOLTAGE DETECTOR ERROR

The welding voltage is not able to be detected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | Contact your YASKAWA representative. |
| 110 | Sub code : Error No. from welder. | Arc welding power source error | Contact your YASKAWA representative. |

## ◆ 4275: MOTOWELD AUX. CIRCUIT ERROR

An abnormality occurred in the auxiliary circuit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 111 | Auxiliary circuit overcurrent | Arc welding power source error | The board may be broken. Contact your YASKAWA representative. |
| 112 | Auxiliary circuit instantaneous overcurrent | Arc welding power source error | The board may be broken. Contact your Yaskawa representative. |
| 113 | Lack of auxiliary circuit current | Arc welding power source error | The board may be broken. Contact your Yaskawa representative. |

## ◆ 4276: MOTOWELD DSP ADC ERROR

The main board broken.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Contact your YASKAWA representative. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | Contact your YASKAWA representative. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | Contact your YASKAWA representative. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | Contact your YASKAWA representative. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4276: MOTOWELD DSP ADC ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 5 | Error from welder 5. | Arc welding power source error | Contact your YASKAWA representative. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | Contact your YASKAWA representative. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | Contact your YASKAWA representative. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | Contact your YASKAWA representative. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 119 | Sub code : Error No. from welder. | Arc welding power source error | Contact your YASKAWA representative. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4277: MOTOWELD OUTSIDE OF CURR.SETTING(H)

The actual welding current becomes far removed from the welding current command value.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4277: MOTOWELD OUTSIDE OF CURR.SETTING(H) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | Error from welder 2. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4277: MOTOWELD OUTSIDE OF CURR.SETTING(H) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 6 | Error from welder 6. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 790 | Sub code : Error No. from welder. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4278: MOTOWELD OUTSIDE OF CURR.SETTING(L)

The actual welding current becomes far removed from the welding current command value.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4278: MOTOWELD OUTSIDE OF CURR.SETTING(L) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 5 | Error from welder 5. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4278: MOTOWELD OUTSIDE OF CURR.SETTING(L) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 791 | Sub code : Error No. from welder. | Arc welding power source error | 1. Check if the selection of motor is correct, or confirm the settings of C parameter C09.<br>2. Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command.<br>3. Check that the wire stick out is not excessively short or long.<br>4. Check that the range set in C parameter C29 is not too narrow.<br>5. Check if the wire, shielding, etc. are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4279: MOTOWELD MOMENTARY OVER-CURR

Overcurrent flows in the secondary control circuit momentarily.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | 1. Check that short-circuit or the earth grounded of the output cable.<br>2. May be power circuit broken. Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | 1. Check that short-circuit or the earth grounded of the output cable.<br>2. May be power circuit broken. Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | 1. Check that short-circuit or the earth grounded of the output cable.<br>2. May be power circuit broken. Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | 1. Check that short-circuit or the earth grounded of the output cable.<br>2. May be power circuit broken. Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | 1. Check that short-circuit or the earth grounded of the output cable.<br>2. May be power circuit broken. Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | 1. Check that short-circuit or the earth grounded of the output cable.<br>2. May be power circuit broken. Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | 1. Check that short-circuit or the earth grounded of the output cable.<br>2. May be power circuit broken. Contact your YASKAWA representative. |

**4279: MOTOWELD MOMENTARY OVER-CURR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8 | Error from welder 8. | Arc welding power source error | 1. Check that short-circuit or the earth grounded of the output cable.<br>2. May be power circuit broken. Contact your YASKAWA representative. |
| 108 | Sub code : Error No. from welder. | Arc welding power source error | 1. Check that short-circuit or the earth grounded of the output cable.<br>2. May be power circuit broken. Contact your YASKAWA representative. |

## ◆ 4280: MOTOWELD OVER-VOLTAGE

Overcurrent flows in the output side circuit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Contact your YASKAWA representative. |
| 2 | Error from welder 2. | Arc welding power source error | Contact your YASKAWA representative. |
| 3 | Error from welder 3. | Arc welding power source error | Contact your YASKAWA representative. |
| 4 | Error from welder 4. | Arc welding power source error | Contact your YASKAWA representative. |
| 5 | Error from welder 5. | Arc welding power source error | Contact your YASKAWA representative. |
| 6 | Error from welder 6. | Arc welding power source error | Contact your YASKAWA representative. |
| 7 | Error from welder 7. | Arc welding power source error | Contact your YASKAWA representative. |
| 8 | Error from welder 8. | Arc welding power source error | Contact your YASKAWA representative. |
| 109 | Sub code : Error No. from welder. | Arc welding power source error | Contact your YASKAWA representative. |

## ◆ 4281: MOTOWELD +15V POWER SUPPLY ERROR

The switching power supply unit broken.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4281: MOTOWELD +15V POWER SUPPLY ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | Error from welder 2. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4281: MOTOWELD +15V POWER SUPPLY ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 7 | Error from welder 7. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 704 | Sub code : Error No. from welder. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4282: MOTOWELD POWER SUPPLY ERROR

The switching power supply unit broken.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4282: MOTOWELD POWER SUPPLY ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | Error from welder 2. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4282: MOTOWELD POWER SUPPLY ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 7 | Error from welder 7. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 705 | Sub code : Error No. from welder. | Arc welding power source error | The use of MOTOWELD-RP500:<br>Replace the switching power supply unit (Service parts code:35015612200) or the Main board (Service parts code: AJ0RP3024). Or, please change two of them.<br>The use of MOTOWELD-RL350:<br>Replace the Interface board (Service parts code: UNIT-Pr (IF)-008B) or the Main board (Service parts code: UNIT-Pr (MB)-030). Or, please change two of them. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4283: MOTOWELD ILLEGAL WELD TYPE

A wrong welding process is set in the welding user file.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Error from welder 1. | Arc welding power source error | Confirm the welding process setting in the welding user file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Error from welder 2. | Arc welding power source error | Confirm the welding process setting in the welding user file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Error from welder 3. | Arc welding power source error | Confirm the welding process setting in the welding user file. |

**4283: MOTOWELD ILLEGAL WELD TYPE (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error from welder 4. | Arc welding power source error | Confirm the welding process setting in the welding user file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Error from welder 5. | Arc welding power source error | Confirm the welding process setting in the welding user file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Error from welder 6. | Arc welding power source error | Confirm the welding process setting in the welding user file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Error from welder 7. | Arc welding power source error | Confirm the welding process setting in the welding user file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Error from welder 8. | Arc welding power source error | Confirm the welding process setting in the welding user file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 406 | A wrong welding process is set in the welding user file. | Arc welding power source error | Confirm the welding process setting in the welding user file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 407 | A welding type is not set in a user file of the MOTOWELD. | Arc welding power source error | Set a wedling type to user file of MOTOWELD. The user file can setup in the editor screen for ARC START CONDITION FILE or ARC END CONDITION FILE of the robot controller. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4284: MOTOWELD SOFTWARE MULFUNCTION

The software of the welding power source has an error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 310 | The version of the data base is not suitable for the software of the welding power source. | Arc welding power source error | Load the suitable database. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4284: MOTOWELD SOFTWARE MULFUNCTION (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 311 | The version information of the PLD on the main board Pr(MB) is wrong. | Arc welding power source error | Replace the main board (Service parts code: UNIT-Pr (MB)-030).<br>Contact your YASKAWA representative |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 312 | The version of the firmware of front panel is not suitable for the software of the main board Pr (MB). | Arc welding power source error | Replace the main board (Service parts code: UNIT-Pr (MB)-030).<br>Contact your YASKAWA representative |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 316 | The check sum of the PLD on the main board Pr(MB) is wrong. | Arc welding power source error | Replace the main board (Service parts code: UNIT-Pr (MB)-030).<br>Contact your YASKAWA representative |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 317 | The program or data base was load by the ethernet. | Arc welding power source error | Reboot the power source. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 318 | The check sum error of loading data. | Arc welding power source error | 1. Do not turn off the power source and reload the data.<br>2. In case of turn off and reboot was OK, reload the data.<br>3. In case of turn off and reboot was NG, load the data by special loading tool.<br>4. Other case of step 1,2,3, replace the main board Pr(MB)-030. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 400 | Watch dog error of the PLD. | Arc welding power source error | 1. reboot the power source.<br>2. Replace the main board {Pr(MB) -030}.<br>Contact your YASKAWA representative |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4285: MOTOWELD MACHINE SETTING ERROR

The machine type is wrong.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 320 | The machine type is wrong. | Arc welding power source error | 1. Check the connection between front panel and main board.<br>2. Check the status of dip switch (SW301) on the front panel.<br>3. Replace the front panel.<br>4. Replace the main board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4286: MOTOWELD CURRENT CLASS ERROR

The current class 350A / 500A setting is wrong.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 330 | The current class 350A / 500A setting is wrong. | Arc welding power source error | 1. Confirm the power source class which of 350A or 500A.<br>2. Switch a status of dip switch SW600 which of 350A or 500A.<br>3. Change the software which for correct current class. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4287: SHORTCIRUIT COUNT OVER (BEAD NG)

The count of shortcircuit is largely decreased.(The bead NG)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 795 | The count of shortcircuit is largely decreased.(The bead NG) | Arc welding power source error | 1. Check that setting current is not too high.<br>2. Check that range set in C parameter C62 is not too narrow.<br>3. Check that the wire stick out is not excessively short. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4288: AC-UNIT ERROR

AC-UNIT ERROR

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 126 | AC unit temperature anomaly | AC-UNIT error | 1. Check the ambient temperature(45 degrees or below) and the usage rate(60%)<br>2. Check for no dirt or clogging in the dust-proof filter. Check or replace as needed.<br>3. Make sure thermal guard of AC unit is not broken. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 129 | AC unit overvoltage | AC-UNIT error | 1. Check the usage rate (60%)<br>2. Check the length of the power cable is round-trip less than 20m.<br>3. Check a power cable does not wind up a coil. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 623 | AC welding method setting error | AC-UNIT error | It can not AC welding for the AC unit is not connected. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4289: SERVO PACK ALARM (EAGL)

SERVO PACK ALARM (EAGL)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 530 | SERVO PACK ALARM (EAGL) | Servo Pack error | 1. A.720: Overload (maximum continuous)<br>Check to that the wire is not strike the material.<br>Check to whether the feed resistance is not excessive.<br>There is a possibility of servo pack failure. Please replace the servo pack.<br>2. A.C90: Encoder communication error<br>There is a connection possibility of failure of the Encoder cable.<br>There is a bad connection possibility of the Encoder cable. Check whether each connector is connected.<br>There is a possibility of Encoder cable disconnection. Please replace the encoder cable.<br>There is a possibility of servo motor main circuit cable failure. Please replace the servo motor main circuit cable.<br>There is a possibility of servo pack failure. Please replace the servo pack.<br>3. A.b33: Current detection abnormality<br>There is a bad connection possibility of the servo motor main circuit cable. Check the connection of each connector.<br>There is a possibility of disconnection of the servo motor main circuit cable.Please replace the servo motor main circuit cable.<br>There is a possibility of servo pack failure. Please replace the servo pack.<br>4. A.100: Overcurrent detection<br>There is a bad connection possibility of the servo motor main circuit cable. Please replace the servo motor main circuit cable.<br>There is a possibility of life of the servo motor. Please replace the servo motor.<br>There is a possibility of servo pack failure. Please replace the servo pack. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4291: DUPLICATED PAINT GUN NUMBER

The gun numbers duplicated.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: The duplicated gun number | Setting error | Check the settings for gun numbers. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4292: PRESSURE EROOR

The applied pressure exceeded the allowable range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Gun number | Setting error | Check the following settings.<br>• ALLOWABLE WIDTH OF ERROR (Is the width too narrow?) |
| | | Motor gun failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, measure the pressure with the load cell. If the pressure is normal, check the following.<br>• Tip insertion state<br>• Misalignment of upper and lower tips |
| | | Motor gun failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, check whether the gun is abnormal. |
| | | Connection failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• SDCA01-CN531-CN536<br>• SDB(External axis SERVO PACK) -CN591, CN594<br>• Motor power wiring<br>• Power supply cable |
| | | Module failure(amplifier) | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the amplifier. |
| | | Module failure(motor) | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the motor |
| | | SDCA01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4293: PRESSURE SETTING ERROR

The setting of the pressure specified.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The setting of the first pressure specified in PRESSURE ERROR DETECT FILE is abnormal. | Setting error | Set an appropriate value for the first pressure. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4293: PRESSURE SETTING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | The setting of the second pressure specified in PRESSURE ERROR DETECT FILE is abnormal. | Setting error | Set the second pressure higher than the first pressure. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4294: CANNOT EXECUTE INST(HPMMV CTRL)

The instruction specified in the high speed multi-move interval could not be executed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An instruction that does not support high speed multi-move has been executed. | Setting error | Correct the job so that instructions that do not support high speed multi-move are not executed in the high speed multi-move section. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4295: HPMMV CTRL FAILED

Execution of high speed multi-move has failed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Failed to restart the high speed multi-move job. | Software operation error occurred | 1. Reset the alarm, and re-select the job from [select job] window before starting the job again .<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Motion control not compatible with high speed multi-move has been executed. | Setting error | Correct the job so that motion control not compatible with high speed multi-move is not executed in the high speed multi-move section. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Speed control that does not support high speed multi-move has been executed. | Setting error | Correct the job so that high speed multi-move non-compliant speed control is not executed in the high speed multi-move section. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4296: IMPOSSIBLE_HPMMV_CTRL

Operation of high speed multi-move has failed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Control group that does not support high speed multi-move has been executed. | Setting error | Correct the job so that high speed multi-move non-compliant control group is not executed in the high speed multi-move section. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Interpolation that does not support high speed multi-move has been executed. | Setting error | Correct the job so that high speed multi-move non-compliant interpolation is not executed in the high speed multi-move section. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Function that does not support high speed multi-move has been executed. | Setting error | Correct the job so that high speed multi-move non-compliant function is not executed in the high speed multi-move section. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | An error occurred in a calculated speed by high speed multi-move | Setting error | 1. Reset the alarm, and re-select the job from [select job] window before starting the job again .<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Tag that does not support high speed multi-move has been executed. | Setting error | Correct the job so that high speed multi-move non-compliant tag is not executed in the high speed multi-move section. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -1 | An error occurred in a high speed multi-move data. | Other | 1. Reset the alarm, and re-select the job from [select job] window before starting the job again .<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -2 | Checking high speed multi-move has failed. | Other | 1. Reset the alarm, and re-select the job from [select job] window before starting the job again .<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4297: WELDING BEAD ERROR

Welding bead failure was judged by weld diagnosis function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Welder number*1000 + data number(1-400) | Other | 1. Please check the welding bead.<br>2. Check welding conditions, welding tip, gas flow rate, workpiece misalignment, jig etc.<br>3. If the welding bead is normal and the alarm occurs frequently, please change the threshold value of weld diagnosis function. |

## ◆ 4300: VERIFY ERROR(SERVO PARAMETER)

The parameter input value is out of the allowable range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, check whether the setting is within the allowable range. |
| | | SDCA01 board failure | 1. Reset the alarm<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4301: CONTACTOR ERROR

The YRC1000 system checks the status of the power-ON (APU01 unit) contactors. This alarm occurs if there is an inconsistency between the control output and contactor status.
Ex.)

- The signal from the contactor turned OFF while the servo was ON.
- The contactor turned ON while the servo was OFF for emergency stop.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the physical No. of contactor in which the alarm occurred<br>Before performing a connection check of the wiring, turn OFF the controller power. Make sure that all the LEDs of SERVOPACK and converter are OFF, then verify that no electricity is charged using equipment such as a tester. This process may take a few minutes after shutting off the power. | APU01 unit failure | 1. Reset the alarm.<br>2. Check the connection and inserting state of the following cables and connectors.<br>• ASF01-CN205<br>• APU01-CN604<br>3. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replacing the unit to be safe. |
| | | ASF01 board failure | 1. Reset the alarm.(In case of major alarm, turn the power OFF then back ON.)<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replacing the board to be safe. |

**4301: CONTACTOR ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4303: CONVERTER READY SIGNAL ERROR

The YRC1000 system checks the converter status. This alarm occurs if the ready state signal of converter is not ON after a certain time period from SERVO ON.
This alarm occurs if the ready state signal of converter is not OFF after a certain time period from SERVO OFF.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the physical No. of converter in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• APU01-CN604<br>• SDCA01-CN507<br>• Converter-CN551, CN561 |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. Check if the contactors (1KM and 2KM) are open, and not damaged by melting or sticking.<br>3. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replacing the board to be safe. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Module failure(converter) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the converter.<br>Before replacing the converter, check if the inverter's CN572 connector (PN input) is short-circuited.<br>If there is a short circuit, replace the inverter as well as the converter. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4304: CONVERTER INPUT POWER ERROR

The YRC1000 system checks the converter status.
No response of primary power supply input was sent from the converter when the servo turned ON.
The READY 1 signal remains ON when the servo turned OFF at emergency stop.
The READY 1 signal turned ON while the servo was OFF for emergency stop.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the physical No. of converter in which the alarm occurred | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replacing the board to be safe. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN507, CPS01-CN154<br>• SDCA01-CN531, CN532, CN533<br>• Converter-CN551, CN557, CN561<br>• APU01-CN602 |
| | | Module failure(converter) | 1. Reset the alarm<br>2. If the alarm occurs again, replace the converter. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4305: CONVERTER CIRCUIT CHARGE ERROR

The YRC1000 system checks the converter charge status.
No response (READY 2 signal) of charge completion was sent from the converter when the servo turned ON.
The READY 2 signal turned OFF while the servo was ON.
The READY 2 signal remains ON when the servo turned OFF at emergency stop.
The READY 2 signal turned ON while the servo was OFF for emergency stop.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the physical No. of converter in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the Converter-CN556 connectors. |
| | | Module failure(converter) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the converter. |
| | | Module failure (Regenerative resistor) | Check if there is no ground fault in the regeneration resistors. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4306: AMPLIFIER READY SIGNAL ERROR

No response "Power ON" was sent from the amplifier when the servo turned ON.
The amplifier READY signal turned OFF while the servo was ON.
The amplifier READY signal remains ON when the servo turned OFF at emergency stop.
The amplifier READY signal turned ON while the servo was OFF for emergency stop.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN501, CPS01-CN154<br>• SDCA01-CN531, CN532, CN533<br>• Inverter board-CN571, SDCA01-CN509<br>• Converter-CN557 |
| | | Module failure(converter) | 1. Reset the alarm.<br>2. If the alarm occurs again, check if the LED (green) for amplifier is lighted up when servo power is ON.<br>3. If it is lighted, replace the converter. |
| | | Module failure(amplifier) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the corresponding amplifier. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4307: SERVO ON DEFECTIVE SPEED

This alarm occurs if any manipulator axis moves (or any motor operates) when the servo power turned ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Mechanical failure | Check that the manipulator is not moving when the servo turned ON. |
| | | SDCA01 board failure | Check that the brake has not been released because the brake relay is broken. |
| | | Connection failure | 1. Reset the alarm<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>[Robot axis]<br>• SDCA01-CN501<br>• Inverter board-CN571, CN573-CN579<br>• Power supply cable (Power cable)<br>[External axis]<br>• SDCA01-CN531, CN532, CN533<br>• SDB(External axis SERVO PACK) -CN591<br>• Power supply cable (Power cable) |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |

**4307: SERVO ON DEFECTIVE SPEED (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4308: VOLTAGE DROP(CONVERTER)

This alarm occurs if there is any error in the charge status of converter when the servo power turned ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the physical No. of converter in which the alarm occurred | Voltage failure | Check if the primary power supply voltage is dropping. |
| | | Connection failure | 1. Reset the alarm<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN507, CPS01-CN154<br>• SDCA01-CN531, CN532, CN533<br>• Converter-CN557, CN561<br>• SDB(External axis SERVO PACK) - CN591,592 |
| | | Module failure(converter) | 1. Reset the alarm.(In case of major alarm, turn the power OFF then back ON.)<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4310: ENCODER OVERHEAT

The encoder monitors its own temperature; if the temperature exceeds the specified value, the alarm occurs. Reset the alarm, and if the encoder detects overheat, the message of "the motor is overheating" is occurred.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Overheated encoder | Turn OFF the YRC1000 power for approx. 10 minutes, then turn it ON again. |
| | | High ambient temperature | Adjust the ambient temperature to 40degrees or less. |
| | | Module failure(encoder) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the encoder. |

**4310: ENCODER OVERHEAT (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4311: ENCODER BACK-UP ERROR

Encoder resetting (initialization) not completed.
The position data in the encoder was lost due to the voltage drop of encoder backup battery.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Module failure(encoder battery) | [AL-4314 occurred]<br>Replace the battery of the axis in which the error occurred.<br>[AL-1327 occurred]<br>Replace the battery of the axis in which the alarm occurred. If the home position of the corresponding axis is displayed as "***", register the home position again.<br>AL-1327 occurs due to the battery disconnection (weak battery), causing undefined alarm data.<br>If the alarm doesn't occur after turning the power OFF and then ON, there is no problem. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01-CN508<br>[External axis]<br>• Cable between encoders<br>• SDCA01-CN534, CN535, CN536 |
| | | Module failure(encoder) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the encoder. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4312: ENCODER BATTERY ERROR

Encoder backup battery voltage is too low.
The voltage of the encoder backup battery is below 2.8V.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Module failure(encoder battery) | Replace the battery. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the Manipulator cables. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4315: COLLISION DETECT

A collision was detected because of the interference between the manipulator and a peripheral device.
The external force applied to the robot exceeded the threshold.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the following settings.<br>• The tool information<br>• The selection tap of the transfer<br>• The collision detection level<br>• JOB<br>• Work<br>• The speed of JOB<br>• The acceleration/deceleration speed of ACC and DEC<br>• Length of the power cables<br>• Diameter of the power cables |
| | | Interference error | Remove the following interferences.<br>• The interferences to the jigs of Robot.<br>• The interferences to the jigs of workpieces.<br>• If there is no interference between robot and workpieces, set the shock detection level to more than maximum eternal value. Up to 500% can be set. |
| | | Acceleration limit over | This alarm occurs when excessive load is applied to the motor upon the satisfactions of all the following conditions;<br>• The acceleration/deceleration is automatically calculated by the manipulator's position at start/end point<br>• The JOB is stopped by category 1 stop or HOLD stop<br>• Compared to the start/end point, excessive load is applied to the motor according to the position<br><Remedy><br>Adjust the acceleration/deceleration by ACC and DEC for the teaching position.<br>Also, make sure to run the machine enough before operation when this alarm occurs at low temperature environment (ambient temperature: 10 degrees) |

**4315: COLLISION DETECT (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN501, CN531, CN532, CN533, CN540, CN541<br>• Inverter board-CN571, SDCA01-CN509<br>• CPS01-CN154<br>• SDB(External axis SERVO PACK)-CN591,594<br>• Motor power wire |
| | | Connection failure | 1. If the alarm occurs again, check the wiring of phase-U, -V, and -W isn't disconnected.<br>2. If disconnected, replace the motor power wire. |
| | | Connection failure | 1. Check that the motor brake wire is not disconnected.<br>2. If disconnected, replace the motor brake wire. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. |
| | | Module failure(amplifier) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the amplifier. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | Maintenance failure | Measure the density of grease iron powder in the speed reducer and do the maintenance. |
| | | Defective speed reducer | Replace the speed reducer or the grease of it. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4316: PRESSURE DATA LIMIT

The pressure set in the gun pressure file or dry spotting pressure file exceeded the maximum pressure set in the gun condition file.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the following settings.<br>• The gun pressure file<br>• The dry spotting pressure file<br>*Reset the pressure value in the gun pressure file below the maximum pressure value |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4318: ENCODER CORRECTION LIMIT

This alarm occurs if the value generated from the position data of encoder exceeds the limit value.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01-CN508<br>[External axis]<br>• Cable between encoders<br>• SDCA01-CN534, CN535, CN536 |
| | | Module failure(encoder) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the encoder. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4320: OVERLOAD(CONTINUE)

This alarm occurs to protect the servo motor from overloading when 110% to 150% of the rated torque is continuously loaded.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the tools or the mass of the workpieces. |
| | | Interference with peripheral devices | Check if the manipulator interferes with any objects such as workpieces or peripheral devices. If interferes, remove the object. |
| | | Setting error | Review the JOB to check if the load factor doesn't exceed 100%. |
| | | SDCA01 board failure | 1. Check if the power has been applied to the brake voltage of the following terminal.<br>Check that the brake has not been locked due to malfunction of the contactor.<br>• SDCA01-CN540<br>• Motor brake terminal<br>2. If any error is found, replace the SDCA01 board. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the wire harnesses in the robot. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |

**4320: OVERLOAD(CONTINUE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4321: OVERLOAD(MOMENT)

This alarm occurs instantly to protect the servo motor from overloading when 200% of the rated torque is loaded.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the tools or the mass of the workpieces. |
| | | Interference with peripheral devices | Check if the manipulator interferes with any objects such as workpieces or peripheral devices. If interferes, remove the object. |
| | | Setting error | Review the JOB to check if the load factor doesn't exceed 100%. |
| | | SDCA01 board failure | 1. Check if the power has been applied to the brake voltage of the following terminal.<br>Check that the brake has not been locked due to malfunction of the contactor.<br>• SDCA01-CN540<br>• Motor brake terminal<br>2. If any error is found, replace the SDCA01 board. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the wire harnesses in the robot. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4322: AMPLIFIER OVERLOAD(CONTINUE)

This alarm occurs to protect the power transistor of the servo pack from overloading when 110% to 150% of the rated torque is continuously loaded

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the tools or the mass of the workpieces. |
| | | Interference with peripheral devices | Check if the manipulator interferes with any objects such as workpieces or peripheral devices. If interferes, remove the object. |
| | | Setting error | Review the JOB to check if the load factor doesn't exceed 100%. |
| | | SDCA01 board failure | 1. Check if the power has been applied to the brake voltage of the following terminal.<br>Check that the brake has not been locked due to malfunction of the contactor.<br>• SDCA01-CN540<br>• Motor brake terminal<br>2. If any error is found, replace the SDCA01 board. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the wire harnesses in the robot. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4323: AMPLIFIER OVERLOAD(MOMENT)

The torque a several times as much as the motor rated torque has continuously been applied for a certain period.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the tools or the mass of the workpieces. |
| | | Interference with peripheral devices | Check if the manipulator interferes with any objects such as workpieces or peripheral devices. If interferes, remove the object. |
| | | Setting error | Review the JOB to check if the load factor doesn't exceed 100%. |

**4323: AMPLIFIER OVERLOAD(MOMENT) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Check if the power has been applied to the brake voltage of the following terminal.<br>Check that the brake has not been locked due to malfunction of the contactor.<br>• SDCA01-CN540<br>• Motor brake terminal<br>2. If any error is found, replace the SDCA01 board. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the wire harnesses in the robot. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4324: CONVERTER OVERLOAD

The total load value of all the motors connected to the converter exceeded the converter rating.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | • Confirm that the tool and workpiece in use don't exceed the permissible load.<br>• Adjust the JOB speed. |
| | | Module failure(converter) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4326: OVER SPEED

This alarm occurs if the motor speed indicated in the axis data exceeds the allowable maximum motor speed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs.<br>If the alarm occurs for the motor gun, check the following settings.<br>• Setting of the touch speed<br>• Setting of the touch pressure |
| | | Connection failure | 1. Reset the alarm.(In case of major alarm, turn the power OFF then back ON.)<br>2. If the alarm occurs again, check the wiring of phase-U, -V, and -W is correct. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4327: WRONG MOTOR ROTATION

While the motor is accelerating, the direction of the torque and the speed was detected as being the opposite of what it was supposed to be.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>Motor power cable<br>• Inverter board-CN573-CN578<br>Encoder cable<br>• SDCA01-CN508<br>• SDCA01-CN534, CN535, CN536 |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4328: SERVO TRACKING ERROR

The axis deviated from the specified position and motion path beyond the allowable range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the following settings.<br>• The tools or the mass of the workpieces |
| | | Interference error | Check if the manipulator interferes with any objects such as workpieces or peripheral devices. If interferes, remove the object. |
| | | Acceleration limit over | This alarm occurs when excessive load is applied to the motor upon the satisfactions of all the following conditions;<br>• The acceleration/deceleration is automatically calculated by the manipulator's position at start/end point<br>• The JOB is stopped by category 1 stop or HOLD stop<br>• Compared to the start/end point, excessive load is applied to the motor according to the position<br><Remedy><br>Adjust the acceleration/deceleration by ACC and DEC for the teaching position.<br>Also, make sure to run the machine enough before operation when this alarm occurs at low temperature environment (ambient temperature: 10 degrees) |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• Inverter board-CN573-CN578<br>• Motor power wiring<br>• Power supply cable (Power cable)<br>• SDCA01-CN534, CN535, CN536 |
| | | SDCA01 board failure | 1. Check if the power has been supplied to the brake voltage of the following terminal.<br>Check that the brake has not been locked due to malfunction of the contactor.<br>• SDCA01-CN400<br>• Motor brake terminal<br>2. If any error is found, replace the SDCA01 board. |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replacing the board to be safe. |
| | | Module failure(amplifier) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the amplifier. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4329: SAFETY SPEED ERROR(SERVO)

This alarm occurs if the motion speed at the center of the control point and the center of the flange exceeded the specified max. speed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 11 | The motion speed at the center of the flange exceeded the specified max. speed. (R1) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | The motion speed at the center of the flange exceeded the specified max. speed. (R1) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | The motion speed at the center of the control point exceeded the specified max. speed. (R1) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4329: SAFETY SPEED ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 22 | The motion speed at the center of the control point exceeded the specified max. speed. (R1) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 211 | The motion speed at the center of the flange exceeded the specified max. speed. (R2) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 212 | The motion speed at the center of the flange exceeded the specified max. speed. (R2) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 221 | The motion speed at the center of the control point exceeded the specified max. speed. (R2) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |

**4329: SAFETY SPEED ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 222 | The motion speed at the center of the control point exceeded the specified max. speed. (R2) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 311 | The motion speed at the center of the flange exceeded the specified max. speed. (R3) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 312 | The motion speed at the center of the flange exceeded the specified max. speed. (R3) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |

**4329: SAFETY SPEED ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 321 | The motion speed at the center of the control point exceeded the specified max. speed. (R3) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 322 | The motion speed at the center of the control point exceeded the specified max. speed. (R3) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 411 | The motion speed at the center of the flange exceeded the specified max. speed. (R4) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |

**4329: SAFETY SPEED ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 412 | The motion speed at the center of the flange exceeded the specified max. speed. (R4) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 421 | The motion speed at the center of the control point exceeded the specified max. speed. (R4) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 422 | The motion speed at the center of the control point exceeded the specified max. speed. (R4) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |

**4329: SAFETY SPEED ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 511 | The motion speed at the center of the flange exceeded the specified max. speed. (R5) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 512 | The motion speed at the center of the flange exceeded the specified max. speed. (R5) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 521 | The motion speed at the center of the control point exceeded the specified max. speed. (R5) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4329: SAFETY SPEED ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 522 | The motion speed at the center of the control point exceeded the specified max. speed. (R5) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 611 | The motion speed at the center of the flange exceeded the specified max. speed. (R6) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 612 | The motion speed at the center of the flange exceeded the specified max. speed. (R6) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 621 | The motion speed at the center of the control point exceeded the specified max. speed. (R6) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |

**4329: SAFETY SPEED ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 622 | The motion speed at the center of the control point exceeded the specified max. speed. (R6) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 711 | The motion speed at the center of the flange exceeded the specified max. speed. (R7) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 712 | The motion speed at the center of the flange exceeded the specified max. speed. (R7) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |

**4329: SAFETY SPEED ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 721 | The motion speed at the center of the control point exceeded the specified max. speed. (R7) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 722 | The motion speed at the center of the control point exceeded the specified max. speed. (R7) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 811 | The motion speed at the center of the flange exceeded the specified max. speed. (R8) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |

**4329: SAFETY SPEED ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 812 | The motion speed at the center of the flange exceeded the specified max. speed. (R8) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 821 | The motion speed at the center of the control point exceeded the specified max. speed. (R8) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 822 | The motion speed at the center of the control point exceeded the specified max. speed. (R8) | Setting error | If the alarm occurs at the same site, set the lower motion speed around the site where the alarm occurs. |
| | | Setting error | Reset the alarm, and then try again. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check that U-, V- and W-phase are appropriately connected. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |

**4329: SAFETY SPEED ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4331: SPEED MONITOR LEVEL ERROR

The speed monitor level is incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4336: OPEN PHASE(CONVERTER)

This alarm occurs if there is an open phase in the converter input power.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the physical No. of converter in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN507, CPS01-CN154<br>• SDCA01-CN531, CN532, CN533<br>• Converter-CN557, CN561<br>• SDB(External axis SERVO PACK)-CN591, CN592 |
| | | Voltage failure | Modify the primary breaker voltage to the specified voltage 200V(+10%to15%). |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replacing the board to be safe. |
| | | Module failure(converter) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4337: OVERCURRENT(AMP)

This alarm occurs if a current exceeding the allowable maximum current is applied for amplifier.
As a cause of the alarm, a ground fault in the U, V, or W wire, or a short circuit between these wires is suspected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN501, CPS01-CN154<br>• SDCA01-CN531, CN532, CN533<br>• Inverter board-CN571, SDCA01-CN509<br>• Converter-CN557<br>• SDB(External axis SERVO PACK)-CN591,592 |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the following cables.<br>• Manipulator cable<br>• Supply cable |
| | | Module failure(amplifier) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the amplifier. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4340: TEMPERATURE ERROR(CONVERTER)

This alarm occurs if the converter temperature monitored by the YRC1000 system exceeds the specified value.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the physical No. of converter in which the alarm occurred | Install failure | Check that the air inlet or outlet is not blocked. |
| | | High ambient temperature | Adjust the ambient temperature to 40 degrees or less. |
| | | Voltage failure | Modify the primary breaker voltage to the specified voltage 200V(+10%to15%). |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN507, CPS01-CN154<br>• SDCA01-CN531, CN532, CN533<br>• Converter-CN557, CN561<br>• SDB (External axis SERVO PACK)-CN591,592 |
| | | Module failure(converter) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the converter. |

**4340: TEMPERATURE ERROR(CONVERTER) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4342: SV DRESS SPEED ERR

The speed of the servo dresser differs more than its limit from the setting.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Metal pieces getting into dresser blades | Check if metal pieces getting into dresser blades prevent the dresser from rotating. |
| | | Setting error | Check if the "SPEED FLUCTUATION LIMIT" setting in TIP DRESS CONDITION file is too small. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• Inverter board-CN573-CN578<br>• Motor power wiring<br>• Power supply cable (Power cable) |
| | | SDCA01 board failure | 1. Check if the power has been supplied to the brake voltage of the following terminal. Check that the brake has not been locked due to malfunction of the contactor.<br>• SDCA01-CN400<br>• Motor brake terminal<br>2. If any error is found, replace the SDCA01 board. |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replacing the board to be safe. |
| | | Module failure(amplifier) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the amplifier. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4343: SV DRESS SPEED ERR(UNDER PRESS)

During pressuring (dressing) the speed of the servo dresser differs more than its limit from the setting.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Metal pieces getting into dresser blades | Check if metal pieces getting into dresser blades prevent the dresser from rotating. |
| | | Setting error | Check the following settings.<br>• "PRESS CONDITION" setting in TIP DRESS CONDITION file is too small. (Check if they are too high.)<br>• "SPEED FLUCTUATION LIMIT" setting in TIP DRESS CONDITION file. (Check if it is too small). |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• Inverter board-CN573-CN578<br>• Motor power wiring<br>• Power supply cable (Power cable) |
| | | SDCA01 board failure | 1. Check if the power has been supplied to the brake voltage of the following terminal.<br>Check that the brake has not been locked due to malfunction of the contactor.<br>• SDCA01-CN400<br>• Motor brake terminal<br>2. If any error is found, replace the SDCA01 board. |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replacing the board to be safe. |
| | | Module failure(amplifier) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the amplifier. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4344: LINEAR SERVOFLOAT TRACKING ERROR

The deviation of X, Y, and Z-axis exceeded the allowable limit while the linear servo float was in execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Check the settings for jobs.<br>2. Reset the alarm. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4345: LNK SERVOFLOAT EXECUTE ERROR

Request of the link servo float execution was sent to an axis where the linear servo float is executing.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | 1. Check the settings for jobs.<br>2. Reset the alarm. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4346: LNK SERVOFLOAT TRQ LIMIT ERROR

The limit torque of the link servo float condition file is outside the specified range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | 1. Check the limit torque of the link servo float condition file.<br>2. Reset the alarm. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4347: LNR SERVOFLOAT TRQ LIMIT ERROR

The limit torque of the linear servo float condition file is outside the specified range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | 1. Check the limit torque of the link servo float condition file.<br>2. Reset the alarm. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4348: LNR SERVOFLOAT COORD TYPE ERROR

While the linear servo float was in execution, another request of linear servo float execution was sent with a different coordinates specified.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies linear servo float condition file number in which the alarm occurred | Setting error | 1. Check the setting file of the job and the linear servo float.<br>2. Reset the alarm. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4349: LNR SERVOFLOAT TOOL POSE ERROR

Another request of the linear servo float execution with a different tool orientation control specified was sent to an axis where the linear servo float is executing.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Check the setting file of the job and the linear servo float.<br>2. Reset the alarm. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4350: LNR SERVOFLOAT EXECUTE ERROR

Request of the linear servo float execution was sent to an axis where the link servo float is executing.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | 1. Check the settings for jobs.<br>2. Reset the alarm. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4351: DRIVE BELT SNAP DETECT

The driving belt may be disconnected because the torque decreased below the normal value.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Driving belt failure | 1. Check that the driving belt is not broken.<br>2. If the driving belt is broken, replace the driving belt. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4352: TWIN DRIVE OVER DEVIATION

The deviation of the position error pulse from the twin drive axis exceeded the allowable limit with twin drive function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN501, CN531, CN532, CN533, CN540, CN541<br>• Inverter board-CN571,CN573-579<br>• CPS01-CN157<br>• SDB (External axis SERVO PACK)-CN591,594<br>• Moter power line |
| | | Connection failure (motor power) | 1. If the alarm occurs again, check the wiring of phase-U, -V, and -W isn't disconnected.<br>2. If disconnected, replace the motor power wire. |

**4352: TWIN DRIVE OVER DEVIATION (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure (motor brake) | 1. Check that the motor brake wire is not disconnected.<br>2. If disconnected, replace the motor brake wire. |
| | | SDCA01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the SDCA01 board. |
| | | Module failure(amplifier) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the amplifier. |
| | | Module failure(motor) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the motor. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4353: DEFECTIVE TAUGHT POINT(ENDLESS)

This alarm occurs if the feedback pulse count of endless operation axis exceeds the allowable maximum pulse count (229 = 536, 870, 912).

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the following settings.<br>• Setting of the command soft (JOB)<br>• MRESET instruction to corresponding axis |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4354: FILE NO. ERROR(SHOCK LEVEL)

The collision detection file for exclusive use for the SVSPOT is used with the SHCKSET instruction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Setting error | Do not use the collision detection file for exclusive use for the SVSPOT with the SHCKSET instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4355: EXTERNAL PRES DETECT(SERVOFLOAT)

An external force above the threshold was detected on the servo-float executing axis.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the settings for jobs. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4356: ARM CTRL PARAMETER ERR(OBSERVER)

The search of motor-gun equalizing function cannot be executed because no observer (including collision detection) is specified.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for jobs. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4357: IMPOSSIBLE SRCH(EQUALIZE TEACH)

The manipulator orientation at the execution of search of the motor-gun equalizing function is the orientation for the singular point.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for jobs. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4358: DUPLICATED PRESS ERROR

The pressuring instruction was executed again for the axis where pressuring is executing.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | End the current pressuring operation, and then execute the pressuring instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4359: CONVERTER ERROR

An error occurred in the converter.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the physical No. of converter in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN507, CPS01-CN154<br>• SDCA01-CN531, CN532, CN533<br>• Converter-CN557, CN561<br>• SDB(External axis SERVO PACK)-CN591,592 |
| | | Module failure(converter) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4364: GUN SOFTLIMIT

The gun axis exceeded the software limit while pressuring operation is executed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the following settings.<br>• Home position of gun axis<br>[Released side]<br>Reset the software limit of released side gun.<br>(Parameter S1CxG800 or 810)<br>[Closed side]<br>Reset the software limit at the gun closed side.<br>Add the moving amount of tip wear.<br>(Parameter S1CxG800 or 810) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4365: TOUCH DETECT DATA OVER

In comparison to the position, where the gun tip hits the welded target, at the previous wear detection, the position during pressuring exceeded the allowable limit which had been set in "ALLOAWABLE TOUCH RANGE" in the GUN DETAIL SETTING file.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the following settings.<br>• Home position of gun axis<br>• "ALLOAWABLE TOUCH RANGE" in the GUN DETAIL SETTING file<br>• "PULSE - STROKE" setting in the GUN CONDITION file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4366: GUN BEND COMPENSATION SET ERROR

The function of gun bending correction was performed to the model which was not supported for the function.
No gun and robot axis exists in the same SV board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the group in which the alarm occurred | Setting error | Check if this model is supported. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4367: ROBOT POSE ERROR

Because the manipulator position is the singular point, the robot cannot execute the gun arm bend compensation.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | 1. Check the teaching position.<br>2. In case the alarm occurs at SVSPOT or SVSPOTMOV instruction, if you disable the gun arm bend compensation by specifying the BCOFF tag to the instruction, the alarm won't occur. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4371: SYSTEM ERROR(SERVO)

Error at SDCA01 boards

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 33 | Robot did not reach the command position within a certain time period. | Setting error | Check the parameter setting value. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4371: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 161 | Automatic test data error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 250 | Control filter error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 251 | Control filter error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 260 | Control filter error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 261 | Control filter error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7101 | The override ratio is invalid. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7102 | The override ratio is invalid. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7103 | The override ratio is invalid. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7104 | The override ratio is invalid. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7105 | The override ratio is invalid. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7106 | The override ratio is invalid. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7107 | The override ratio is invalid. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4371: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 7108 | The override ratio is invalid. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7109 | The override ratio is invalid. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7610 | Gun Auto-tuning error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7700 | The pullback was executed when the shock detection function was invalid. | Setting error | 1. Check the following settings.<br>Shock Detection Function. Pullback signal |
| | | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 8111 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8112 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8113 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8114 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8115 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4371: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8816 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8817 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8818 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8819 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8121 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8122 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8123 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8124 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8125 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4371: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8126 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8127 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8128 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8129 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8131 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8132 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8133 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8134 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8135 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4371: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8136 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8137 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8138 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8139 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8141 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8142 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8143 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8144 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8145 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4371: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8146 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8147 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8148 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8149 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8151 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8152 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8153 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8154 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8155 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4371: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8156 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8157 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8158 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8159 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8161 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8162 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8163 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8164 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8165 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4371: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8166 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8167 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8168 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8169 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8171 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8172 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8173 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8174 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8175 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4371: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8176 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8177 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8178 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8179 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8181 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8182 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8183 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8184 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8185 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4371: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8186 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8187 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8188 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8189 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8191 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8192 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8193 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8194 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8195 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4371: SYSTEM ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8196 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8197 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8198 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8199 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8200 | The data error of ROBOT DUTY DIAGNOSIS FUNCTION was detected. (Sub Code: Signifies the data type and the axis in which the alarm occurred) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4378: CANNOT EXECUTE BRAKE LINE CHECK

This alarm occurs if any axis moves (i.e. falls by its own weight)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | Check the brake connection. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4379: SAFETY RELAY ERROR(SERVO)

An feedback error of the output of STO signal is detected by SDCA01 board in diagnosis process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the control axis number which detected an error | Setting error | Check the settings for CONNECTION(STO/CONTACTOR) in maintenance mode |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the ASF01-CN205 connectors.<br>3. When using the servo OFF function by the DIRECTIN signal, please check the following settings;<br>• The DIRECTIN signals are not set to servo OFF when performing servo ON.<br>• Check the connection and inserting state of the DIRECTIN signals. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4398: PULSE LIMIT(SERVO)

The speed control axis exceeded its pulse limit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group and axis | Setting error | Check the following settings.<br>• Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is within the motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4399: SERVO TRACKING ERROR(LOW)

The axis deviated from the specified position and motion path beyond the allowable range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the following settings.<br>• The tools or the mass of the workpieces |
| | | Interference error | Check if the manipulator interferes with any objects such as workpieces or peripheral devices. If interferes, remove the object. |

**4399: SERVO TRACKING ERROR(LOW) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Acceleration limit over | This alarm occurs when excessive load is applied to the motor upon the satisfactions of all the following conditions;<br>• The acceleration/deceleration is automatically calculated by the manipulator's position at start/end point<br>• The JOB is stopped by category 1 stop or HOLD stop<br>• Compared to the start/end point, excessive load is applied to the motor according to the position<br><Remedy><br>Adjust the acceleration/deceleration by ACC and DEC for the teaching position.<br>Also, make sure to run the machine enough before operation when this alarm occurs at low temperature environment (ambient temperature: 10 degrees) |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• Inverter board-CN573-CN578<br>• Motor power wiring<br>• Power supply cable (Power cable)<br>• SDCA01-CN534, CN535, CN536 |
| | | SDCA01 board failure | 1. Check if the power has been supplied to the brakevoltage of the following terminal.<br>Check that the brake has not been locked due to malfunction of the contactor.<br>• SDCA01-CN400<br>• Motor brake terminal<br>2. If any error is found, replace the SDCA01 board. |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replacing the board to be safe. |
| | | Module failure(amplifier) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the amplifier. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4400: NOT READY (ARITH)

The arithmetic process section was not completed within the specified time.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The arithmetic process for motion control did not complete within regulated time. No motion command was prepared. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The arithmetic processing section is not ready for JOG operation. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The arithmetic processing section is not ready for the playback operation. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The prereading processing in the arithmetic processing section has not completed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The arithmetic processing section is not ready for the timer follow-up of the conveyor tracking function. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The prereading processing in the arithmetic processing section has not completed when specifying the target position. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The prereading processing in the arithmetic processing section has not completed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4401: SEQUENCE TASK CONTR ERROR

An error occurred in job execution process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Unused A_BANK does not exist in the prereading processing of move instruction. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Unused bank priority does not exist in the prereading processing of move instruction. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | A_BANK pointer is not set. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4401: SEQUENCE TASK CONTR ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 6 | A_BANK conversion could not be performed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The specified A_BANK number does not exist. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | An error occurred when system number (MSS) was obtained. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | An error occurred in RMS960 system call. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | Undefined interrupt command was received. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 23 | Job start condition is not defined. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 24 | An error occurred in instruction prefetch queue operation. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 26 | Intermediate code is not defined. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 29 | Instruction prereading processing has not been completed normally. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | An error occurred in job data change. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 31 | The specified sequence number at job execution start is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32 | The added area for interruption command is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4401: SEQUENCE TASK CONTR ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 33 | System number (MSS) for interruption command is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 38 | An error occurred at start of twin synchronous operation. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 39 | An error occurred when SYNC specification was reset. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 41 | An error occurred in occupation control group setting in MOTION section. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 45 | An error occurred in path/trace control. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 47 | An error occurred when waiting for a completion of main system task (job) in SYNC specification. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 48 | An attempt was made to execute an instruction that could not be executed at line sequence execution. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 49 | An error occurred while obtaining the instruction information. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 50 | The instruction to be executed in the backward direction was not found. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 80 | An exceptional error occurred in job execution process. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 100 | Main processing command is incorrect in prereading processing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 101 | Subprocessing command is incorrect in prereading processing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4401: SEQUENCE TASK CONTR ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 102 | Prereading processing has not been completed at job execution. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 103 | A_BANK conversion has not been completed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 104 | System number (MSS) is incorrect in prereading processing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 105 | An error occurred in instruction prefetch queue operation in prereading processing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 106 | An error occurred at IES switching in prereading processing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4402: UNDEFINED COMMAND(ARITH)

An undefined command or unused command was issued to the path control section.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error<br>Setting error | 1. Reset the alarm, and then try again.<br>2. Check the following settings.<br>• the base-axis position must be registered for the system with base-axis MOVL P00001 BP00001<br>3. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4403: UNDEFINED IOSPDCTRL HOME POS

The Home Position is not registered.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group | Setting error | Register the home position for IOSPDCTRL axis. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4404: ARITHMETIC ERROR

An error occurred in the arithmetic process for coordinates.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8 | Interpolation such as linear and circular interpolation cannot be performed with this manipulator. | Setting error | Change the step (move instruction), where the alarm occurred, to MOVJ. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | The setting of the form data for Flip/No Flip is not "B-axis Angle. " | Setting error | Set "1" to "S2C658: Type data detail settings". |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | An attempt was made to pass the B-axis zero degree position (singular area). | Setting error | Check the teaching position of the job so that the manipulator does not pass the B-axis zero degree position (singular area). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | An attempt was made to pass the B-axis zero degree position (singular area) during interpolation. | Setting error | Check the teaching position of the job so that the manipulator does not pass the B-axis zero degree position (singular area). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | Wrist axis tended to rotate to the inverse with the teaching direction. | Setting error | Check the teaching position of the job so that a wrist axis does not inverse rotation. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4406: GROUP AXIS CONTROL ERROR

An internal control error occurred in a coordinated motion.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Designation error for master and slave | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Slave designation error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Slave interpolation error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4406: GROUP AXIS CONTROL ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4 | No designation of master axis | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Master-axis designation error for JOG motion | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Slave-axis designation error for JOG motion | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Occupation control error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | Designation error of occupation control for JOG motion | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Designation error of occupation control for Bank position | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | Designation error of occupation control group for tracking motion | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | No master and slave designated for tracking motion | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4407: TWO STEPS SAME POSITION(CIRC)

Among three taught points in a circular interpolation step, two or three points are on the same point.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for teaching position of circular interpolation steps so that each point is different. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4408: TWO STEPS SAME POSITION(SPLINE)

Among three taught points in a spline interpolation step, two or three points are on the same point.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for teaching position of spline interpolation step so that each point is different. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4409: TWO STEPS SAME POSITION(3 STEPS)

Among three taught points to create an user coordinate system, two or three points are on the same point.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for three taught points to create an user coordinate system so that each point is different. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4410: TWO STEPS SAME POSITION(WEAV)

Among three taught points (start, end, and reference points) to create a weaving coordinate system, two or three points are on the same point.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for taught points (start, end, and reference points) so that each point is different. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4411: TEACH ERROR(SPLINE)

The distance between the teaching points in the spline interpolation section is not equidistant.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for the teaching position of spline interpolation section so that the distance between the teaching points is even. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4412: IMPOSSIBLE LINEAR MOTION(L/U)

In case the form (folded direction) of L- and U-axes at start point and end point are different except for MOVJ instructions, the manipulator cannot move.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the following settings.<br>• Perform the teaching again to make the form of L- and U-axes same at start point and end point.<br>• Use a MOVJ instruction again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4413: IMPOSSIBLE LINEAR MOTION(S/L)

In case the form (folded direction) of S- and L-axes at start point and end point are different except for MOVJ instructions, the manipulator cannot move.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the following settings.<br>• Perform the teaching position again to make the form of S- and L-axes same at start point and end point.<br>Use a MOVJ instruction again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4414: EXCESSIVE SEGMENT (LOW/HIGH)

This alarm occurs if the operation command which exceeds the designated max. speed is output.
It may occur when the robot operates near the singular point or when the robot is going to change its orientation widely with single control point.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group and axis | Setting error | 1. Reduce the speed in the step where the alarm occurred.<br>2. Change the move instruction to joint interpolation (MOVJ).<br>* Be careful to the peripheral interference since its movement changes. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4416: PULSE LIMIT(MIN./MAX.)

The manipulator exceeded its motion limit (pulse limit) in the negative (-) and the positive (+) direction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group and axis | Setting error | Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is within the motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4418: CUBE LIMIT(MIN./MAX.)

The manipulator TCP exceeded its motion limit (cube limit) in the negative (-) direction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group and XYZ | Setting error | Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is within the motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4420: SPECIAL SOFTLIMIT(MIN./MAX.)

The manipulator exceeded its motion limit (special software limit) in the negative (-) and the positive (+) direction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group and axis | Setting error | Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is within the motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4422: MECHANICAL INTERFERENCE(MIN./MAX.)

Links interfered between manipulators.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group and axis | Setting error | Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is within the motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4424: SPECIAL MECHANICAL INTRF(MIN./MAX.)

Links interfered between manipulators.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group and axis | Setting error | Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is within the motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4426: PULSE MECHANICAL LIMIT(MIN./MAX.)

The manipulator exceeded its motion limit (mechanical limit) in the negative (-) and the positive (+) direction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group and axis | Setting error | Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is within the motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4428: SEGMENT CONTROL ERROR

An error occurred in the segment processing section that controls the arithmetic section.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | RT-buffer control command error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Segment-receiving control command error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | No bank priority | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Answer error at MOVE simulating | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The value of bank_refresh_flag (x) exceeded its limit. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4428: SEGMENT CONTROL ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8 | RT-buffer tracking option error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | The segment was received although the previous segment had not been sent. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4429: WRONG SPECIFIED CONTROL GROUP

An error occurred in the manipulator information at job execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Control group not designated | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Slave control-group error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Master control-group error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Master and Slave control-group error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Control-group error for a job file | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Control-group error for a user coordinate file | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Control-group error for a calibration file between manipulators | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Control-group error for a tool calibration file | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4429: WRONG SPECIFIED CONTROL GROUP (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 10 | Control-group error for prereading-calculation start point (for adv_st_pos) | Software operation error occurred | 1. Reset the alarm, and re-select the job from [select job] window before starting the job again .<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | Control-group error for the current-value preset position | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | Control-group error for the conveyor prereading-calculation start point | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | Occupation control-group error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | Control-group error for servo hand | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | Control-group error for the prereading-calculation start point (for dm_st_pos) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | Control-group error for prereading-calculation start point (for dm_st_pos) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | Control-group error for paint gun | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | Control-group error for the press synchronization prereading-calculation start point | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | Control-group error for HPMMVON | Setting error | 1. Reset the alarm.<br>2. Review the JOB to see if it is a control group that can be executed. |
| 23 | Control-group error for the controller synchronization prereading-calculation start point | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 24 | Control-group error for the motor gun auto teaching | Software operation error occurred | The motor gun auto teaching function cannot be used in multiple gun control group. |

**4429: WRONG SPECIFIED CONTROL GROUP (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 26 | Control-group error for sealing gun | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 27 | Control-group error for SMOOTH | Setting error | 1. Reset the alarm.<br>2. Review the JOB to see if it is a control group that can be executed. |

## ◆ 4430: CPU COMMUNICATION ERROR

An error occurred in interrupt process between CPUs.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Interrupt processing error between MOTION section and system control section | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Interrupt processing error between MOTION section and SL#1 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Interrupt processing error between MOTION section and SL#2 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Interrupt processing error between MOTION section and SL#3 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Interrupt processing error between MOTION section and SL#4 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Interrupt processing error between MOTION section and SL#5 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Interrupt processing error between MOTION section and SL#6 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Interrupt processing error between MOTION section and SL#7 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | Interrupt processing error between MOTION section and SL#8 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4430: CPU COMMUNICATION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 10 | Interrupt processing error between MOTION section and CV#1 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | Interrupt processing error between MOTION section and CV#2 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | Interrupt processing error between MOTION section and PS#1 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | Interrupt processing error between MOTION section and PS#2 | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4431: JHM ERROR

Data error occurred in job control process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error occurred in JMS system call when an attempt was made to open a job. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | No space was found in job handle value storage area when an attempt was made to open a job. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | No job handle was found. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Job control proprietary is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Job control proprietary could not be changed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | An error occurred in exclusive control. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4432: INSTRUCTION INTERPRETER ERROR

An error occurred in instruction interpretation/execution process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The intermediate code of the instruction that is to be executed is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Destination (variable) tag arrangement is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Tag data type is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Box number is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | An error occurred in block separation processing of intermediate code. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Box number definition is duplicated. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | Undefined instruction was found at block separation of intermediate code. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | IPRM is not set. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | An error occurred in tag data search process. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | An error occurred move instruction search process. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | Variable information does not exist. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | An error occurred at position file data reading. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4432: INSTRUCTION INTERPRETER ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 17 | Variable data type is not defined. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | An instruction is included with incorrect intermediate code in expression instruction. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | The syntax in expression instruction is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | The tag data length is zero when tag data is read. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | The necessary tag data is not set. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | The object to be processed was secret variable in position file control process, so it could not be processed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 23 | The object to be processed was position type variable in position file control process, so it could not be processed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 24 | Job argument settings do not match when a variable is given and/or taken between jobs. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 25 | An attempt was made to perform undefined operation at four-rule operation instruction. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 26 | Arithmetic stack used for expression operation exceeded. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 27 | Arithmetic stack used for expression operation is empty. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 28 | Operation items are lacking in expression operation and operation processing cannot be performed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4432: INSTRUCTION INTERPRETER ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 29 | The number of executing the sub-instruction with EXEC processing exceeded the maximum number. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | An error occurred by the setting of the character-string type variable in the ARGF instruction. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 31 | The intermediate code of IFEXPRESS instruction is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32 | The syntax of IFEXPRESS instruction is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 33 | The number of components of the IFEXPRESS instruction exceeded. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 34 | The stack used for executing the IFEXPRESS instruction overflowed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 35 | The stack used for executing the IFEXPRESS instruction did underflow. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 36 | The reinterpretation of the instruction was ordered when executing the instruction. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 37 | Tag data (box number) of the instruction that is to be executed is not supported. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 38 | VARGF is not set. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 254 | Access mechanism for old parameters is used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 255 | An exceptional error occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4433: UNDEFINED GLOBAL VARIABLE

The global variable is not defined.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | The set data for byte type variable area is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | The set data for integer type variable area is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The set data for double-precision integer-type variable area is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The set data for real type variable area is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The set data for character-string type variable area is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The set data for robot-axis position-type variable area is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The set data for base-axis position-type variable (S1D parameter) area is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The set data for station-axis position-type variable (S1D parameter) area is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4435: UNDEFINED LOCAL-VARIABLE

The local variable is not defined.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | The byte type variable is not defined. | Setting error | Set the number of local variables to be used in the job header. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | The integer type variable is not defined. | Setting error | Set the number of local variables to be used in the job header. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4435: UNDEFINED LOCAL-VARIABLE (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | The double-precision integer-type variable is not defined. | Setting error | Set the number of local variables to be used in the job header. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The real-number type variable is not defined. | Setting error | Set the number of local variables to be used in the job header. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The character-string type variable is not defined. | Setting error | Set the number of local variables to be used in the job header. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The robot-axis position-type variable is not defined. | Setting error | Set the number of local variables to be used in the job header. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The base-axis position-type variable is not defined. | Setting error | Set the number of local variables to be used in the job header. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The station-axis position-type variable is not defined. | Setting error | Set the number of local variables to be used in the job header. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4436: LESS THAN 3 STEPS(CIRCULAR)

An error occurred in circular interpolation instruction execution.
There is no continuous three points or more for circular interpolation step.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Perform teaching so that circulation interpolation steps are continuous three points or more. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4437: LESS THAN 3 STEPS(SPLINE)

An error occurred in spline interpolation instruction execution.
There is no continuous three points or more for spline interpolation step.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Perform teaching so that spline interpolation steps are continuous three points or more. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4438: UNDEFINED JOB

The job to be executed is not registered.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check if the CALL/JUMP destination job is registered. If the job is not registered, delete the JUMP instruction where an alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4439: UNDEFINED LABEL

An error occurred in label jump execution.
The label for jump destination does not exist in the job.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check if the JUMP destination label is registered. If the label is not registered, delete the JUMP instruction where alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4440: UNDEFINED RETURN JOB

Call source job does not exist in the job call stack.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the following settings.<br>• If there is an illegal RET instruction in the start job, delete the RET instruction.<br>• Check if RET instruction is not executed under the condition that there is no job in the job call stack. In that case, execute it from master (start) job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4441: LACK OF LOCAL-VARIABLE AREA

An error occurred when memory area for local variable was obtained.
Memory area is lacking because too many local variables in the job are used.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Reduce the number of local variables to be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4444: UNSUCCESSFUL FINE POSITIONING

When PL = 0 or an external servo turned OFF, the number of the servo error pulses did not fall in the limit range that had been set in a parameter, within the specified time.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code:<br>The lowest eight bits -> Bit specification of axis where error occurred.<br>The highest eight bits -> Bit specification of control group number(0-31) where error occurred. | Effect of external force | Move the manipulator by the axis operation, etc. to remove the external force of axis where alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4445: DATA PRESET ERROR

Data error occurred at job prereading reinterpretation.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The token for prereading processing could not be obtained. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The prereading processing has not been completed within the time, and the waiting time for completion exceeded the limit. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The prereading operation processing has not been completed within the time, and the waiting time for completion exceeded the limit. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | An error occurred in prereading operation process. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4445: DATA PRESET ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 5 | A_BANK conversion has not been completed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, turn the main power of controller off and then turn it on. Re-select the job from [select job]window before starting the job again .<br>3. If the alarm occurs again even though you do above (2), save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 255 | An exceptional error occurred in job execution process. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4446: OVER VARIABLE LIMIT

The variable value exceeded the limit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | The variable value exceeded the limit. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | The value for the binary (0/1) data type variable exceeded the limit. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The value for the signed 1-byte data type variable is less than the minimum value. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The value for the unsigned 1-byte data type variable is less than the minimum value. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The value for the signed 2-byte data type variable is less than the minimum value. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The value for the unsigned 2-byte data type variable is less than the minimum value. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |

**4446: OVER VARIABLE LIMIT (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The value for the signed 4-byte data type variable is less than the minimum value. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The value for the unsigned 4-byte data type variable is less than the minimum value. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The value for the real-number 4-byte data type variable is less than the minimum value. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | The value for the character-string type variable is less than the minimum value. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32770 | The value for the signed 1-byte data type variable exceeded the maximum value. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32771 | The value for the unsigned 1-byte data type variable exceeded the maximum value. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32772 | The value for the signed 2-byte data type variable exceeded the maximum value. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32773 | The value for the unsigned 2-byte data type variable exceeded the maximum value. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4446: OVER VARIABLE LIMIT (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 32774 | The value for the signed 4-byte data type variable exceeded the maximum value. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32775 | The value for the unsigned 4-byte data type variable exceeded the maximum value. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32776 | The value for the real-number 4-byte data type variable exceeded the maximum value. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32782 | The value for the character-string type variable exceeded the maximum value. | Setting error | Check the settings for variable, and then correct the job to fall within the input range of the tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4447: DEFECTIVE TAUGHT POINT(CIRC)

Incorrect teaching of circular interpolation steps.
The three points taught for the circular interpolation step lie in a straight line.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Starting point and destination point are the same position. | Setting error | Change the teaching points so that circular interpolation points do not to same. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Any points of the circular interpolation are the same position. | Setting error | Change the teaching points so that circular interpolation points do not to same. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Any points of the circular interpolation are the same position as the center position. | Setting error | Change the teaching points so that circular interpolation points do not to same as the center point of circular path. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The three points taught for the circular interpolation points line in a straight line. | Setting error | Change the teaching points so that circular interpolation points do not line in a straight line. |

**4447: DEFECTIVE TAUGHT POINT(CIRC) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The starting point and destination point taught for the circular interpolation points line in a straight line. | Setting error | Change the teaching points so that circular interpolation points do not line in a straight line. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Rotation angle of circular interpolation is out of range. | Setting error | Change the rotation angle of circular interpolation. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -1 | Failed to calculate the circular path. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -2 | Circular interpolation different ways in multiple robots are specified. | Setting error | Specify the same circular interpolation method to all robots. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4448: WEAVING CONTROL ERROR

An error occurred in weaving control.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Weaving control-group designation error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | When the speed is specified by weaving time in the weaving file, zero or the negative value is set for the weaving time. | Setting error | Reset the value 0.1 seconds or more. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | When the speed is specified by frequency in the weaving file, zero or the negative value is set for the frequency. | Setting error | Reset the value 0.1 Hz or more. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4448: WEAVING CONTROL ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 6 | When the timer mode is specified in the weaving file, a negative value is set for the timer value. | Setting error | Set a positive value for the timer value. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | For triangle or L-type weaving, zero is set for the vertical or horizontal distance. | Setting error | Set a positive value for the vertical and horizontal distance. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The coordinate control axis designation for the reference point is different from actual control axis. | Setting error | Match the control group designation of the wall point and weaving execution. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | The distance between the point P and the TCP could not be calculated in wrist weaving. | Setting error | Set the correct dimensions in the tool data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | The distance between the point P and the TCP could not be calculated in circular wrist weaving. | Setting error | Set the correct dimensions in the tool data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | The Y-direction element of circular coordinate system for circular wrist weaving could not be calculated. | Setting error | Check the settings for wall and horizontal direction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | The X-direction element of circular coordinate system for circular wrist weaving could not be calculated. | Setting error | Check the settings for wall and horizontal direction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | Weaving basic-orientation calculation error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4448: WEAVING CONTROL ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | Calculation error of horizontal- and wall-direction vector for weaving | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | Weaving synchronization file number selection range error | Setting error | Check the number of the weaving synchronizing file for use. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | Weaving interpolation error | Setting error | The ELLIPSE weaving can move, when MOVL or MOVC is taught.<br>Check the job contents. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | Weaving coordinated motion error | Setting error | The independent motion and coordinated motion are taught in the weaving section. In one weaving section teach the independent motion or coordinated motion only.<br>Check the job contents. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | WVON instruction execution error while changing weaving conditions | Setting error | Do not execute the WVON instruction while changing the weaving condition by the WVCHG instruction.<br>Check the job contents. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | Weaving condition change mode error | Setting error | The WVCHG instruction cannot be used in weaving mode other than the "ELLIPSE" or "ELLIPSE (TOOL)".<br>Check the job contents. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | Weaving condition change speed specification error | Setting error | If the speed specification of the weaving condition is "time", the condition cannot be changed by the WVCHG.<br>Check the weaving condition. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | Weaving condition change groove correction execution error | Setting error | The weaving groove correction function (WVADJ) and WVCHG cannot be used together.<br>Check the job contents. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4448: WEAVING CONTROL ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 23 | Weaving condition change COMARC execution error | Setting error | The COMARC function and the WVCHG cannot be used together.<br>Check the job contents. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 24 | SLOPE control execution error when changing weaving conditions | Setting error | The slope control of the weaving condition and the WVCHG cannot be used together.<br>Check the job contents or the weaving condition. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4449: UNMATCHED POSN VAR DATA TYPE

The position type variable data type is different.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Match the data type of position type variable. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4450: FILE NO. ERROR

An error occurred in tool file number check.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An error occurred in tool file number check. | Setting error | Confirm that the specified tool file number is 0 to 63. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An error occurred in user coordinate file number check. | Setting error | Confirm that the specified user coordinate file number is 1 to 63. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | An error occurred in calibration file number check between the manipulators. | Setting error | Confirm that the specified robot calibration file number is 1 to 32. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | An error occurred in tool calibration file number check. | Setting error | Confirm that the specified tool file number is 0 to 63. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4450: FILE NO. ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 5 | An error occurred in reference point number check. | Setting error | Confirm that the specified robot calibration file number is 1 to 8. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | An error occurred in check for welding start condition file number. | Setting error | Confirm that the specified welding condition start file number is 1 to 48. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | An error occurred in check for welding end condition file number. | Setting error | Confirm that the specified welding condition end file number is 1 to 48. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | An error occurred in conveyor characteristic file number check. | Setting error | Confirm that the specified conveyor condition file number is 1 to 6. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | An error occurred in press characteristic file number check. | Setting error | Confirm that the specified press characteristic file number is 0 to 3. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | An error occurred in conveyor calibration file number check. | Setting error | Confirm that the specified conveyor calibration file number is 1 to 6. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | An error occurred in argument number check. | Setting error | Confirm that the argument number is 1 to 16. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | An error occurred in check for motor gun characteristic file number. | Setting error | Confirm that the specified servo gun characteristic file number is 1 to 24. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | An error occurred in press condition file number check. | Setting error | Confirm that the specified press condition file number is 1 to 3. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4450: FILE NO. ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 21 | An error occurred in press setting file number check. | Setting error | Confirm that the specified press setting file number is 1 to 128. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4451: UNDEFINED REFERENCE POINT

An error occurred in the reference point data.
The reference point is not registered or is insufficient.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Reference point number in binary | Setting error | Set the reference point. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4452: STACK MORE THAN 10 (JOB CALL)

The job call stack exceeded the limit.
An attempt was made to add more than twelve stacks in the job call stack.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Change the job configuration so that the number of nests for CALL instruction is twelve or less. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4453: OVER VARIABLE NO.

The variable number is out of range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The variable number is out of range.<br>Sub Code: The variable number which an attempt was made to use | Setting error | Correct the job using the variable number within the range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4454: UNDEFINED POWER SOURCE COND.

The arc welding characteristic file is not set.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Complete the settings for the arc welding characteristic file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4455: UNDEFINED ARC START COND FILE

The welding start condition file is not set.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Complete the settings for the welding start condition file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4456: UNDEFINED ARC END COND FILE

The welding end condition file is not set.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Complete the settings for the welding end condition file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4457: WRONG WELDER SELECTION

An error occurred in welder type check.
The reference unit for the welding voltage and the welder type (independent/unified) do not match.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for the reference unit of the welding voltage. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4459: EXCESSIVE INSTRUCTION EQUATION

An error occurred in expression operation.
The operation is impossible because the expression is too long.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Separate the operation expression, shorten the expression, and then check the settings for the job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4460: ZERO DIVIDED OCCURRENCE

An error occurred in operation instruction.
Zero division occurred.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Do not divide by zero. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4461: UNDEFINED AUTO-WELD RELEASE COND

An error occurred in automatic welding release conditions.
The number of welding release condition is zero for arc auxiliary file.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for the number of times of welding release condition. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4462: UNDEFINED POSITION FOR ARC RETRY

An error occurred at arc retry execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | The arc retry has been set, but no move instruction exists following ARCON instruction. | Setting error | Check the settings for the move instruction following ARCON instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | The teaching position before and after the ARCON instruction is the same position. | Setting error | Check the following settings.<br>• Check the settings for the move instruction following ARCON instruction.<br>• Change "Retry mode" from "SHIFT" to "RERPLY". |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Master control-group doesn't support Retry mode "SHIFT". | Setting error | Change "Retry mode" from "SHIFT" to "RERPLY". |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4463: PARITY ERROR

The parity check for user I/O group detected the data error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for the parity data of the user I/O group. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4464: OVER BCD RANGE

The BCD value exceeded the limit.
An attempt was made to output a value above the maximum value that can be expressed in Binary Coded Decimal: 99 (decimal) when no parity check is specified, and 79 (decimal) when parity check is specified.
An attempt was made to read a data that cannot be expressed in Binary Coded Decimal (a data whose lower or upper 4 bits exceeded 9 in decimal) in the variable.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Correct the BCD data so that it is within the limit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4465: OVER BINARY RANGE(PARITY CHECK)

The binary data exceeded the limit.
An attempt was made to output a value that exceeded 127 (decimal) to the user I/O when parity check was specified.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Correct the binary data so that it is within the limit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4466: OFFLINE UNDEFINED COMMAND(ARITH)

An undefined command was issued to the offline position-data preparation section.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An undefined command was issued to the offline position-data preparation section. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4467: USER COORD STEP NOT ENOUGH

An error occurred at user coordinate creation by a job.
The number of steps was lacking for a job for user coordinate creation.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Correct the JOB that the number of steps will be three or more. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4468: ROBOT CALIBRATION DATA ERROR

An error occurred in calibration between manipulators.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The calibration between manipulators cannot be executed for this model. | Setting error | Do not use a coordinated motion with this manipulator. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The master group and the slave group are set to the same group. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Incorrect designation of the control group for master group | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Incorrect designation of the control group for slave group | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Incorrect designation of the occupation control group for calibration data | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Incorrect designation of the enabling control group for calibration data | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Among three points in the master-group's calibration data, two or three points are on the same point. | Setting error | Teach the data for calibration so that each point is different. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Among three points in the slave-group's calibration data, two or three points are on the same point. | Setting error | Teach the data for calibration so that each point is different. |

**4468: ROBOT CALIBRATION DATA ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | The number of the teaching points for calibration data is insufficient. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4469: ROBOT CALIBRATION FRAME ERROR

An error occurred in calibration coordinate conversion between manipulators.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The calibration between manipulators cannot be executed for this model. | Setting error | The calibration function between manipulators cannot be used for this model. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The master group and the slave group are set to the same group. | Setting error | Set the different groups for the master group and the slave group. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Incorrect designation of the control group for master group | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Incorrect designation of the control group for slave group | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Calibration data setting error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4470: ROBOT CARIB STEP NOT ENOUGH

An error occurred at calibration data creation between manipulators.
The number of steps was lacking for a job for calibration data creation between manipulators.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for number of the job steps |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4471: ROBOT CALIBRATION DATA ERROR

The tool calibration data could not correctly be prepared.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Incorrect number of teaching points for tool calibration | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Incorrect designation of the occupation control group for calibration data | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Incorrect designation of the enabling control group for calibration data | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Incorrect designation of the control group for calibration data | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4472: ARITHMETIC ERR(COMPACT RMT WELD)

An error occurred by the arithmetic section when compact remote welding was executed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The reference point is not set. | Setting error | Set the reference point. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The start point and end point are on the same point. | Setting error | Change the teaching positions so that the start point and end point are different. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The straight line which connects the start point and an end point, and the angle which the Z direction of a tool makes are less than 10 degrees. | Setting error | Correct the teaching positions so that the angle that the Z direction of the tool and the straight line which connects the start point with the end point make becomes 10 degrees or more. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4473: ARITHMETIC ALARM RESET ERROR

The alarm occurred in the calculation section could not be reset.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4474: WRONG CONTROL GROUP AXIS

The CALL/JUMP/PSTART destination job could not be executed.
An attempt was made to call or jump to a job whose control group cannot be controlled.
An attempt was made to start the control group job that could not be operated.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code:The related control-group | Setting error | Check the following settings.<br>• Make the setting in advance so that the control group of the CALL/JUMP designation job is included in that of the CALL/JUMP source job.<br>• Don't start the job which including control group under already operation by "PSTART" instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4475: CANNOT EXECUTE JOB(NO ROBOT)

The robot axis is not designated for the control-group of the job at execution of a work instruction that uses a manipulator.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the following settings.<br>• Add the robot axis to the control-group of the job.<br>• When MotoPlus function (option) is used, a robot which executed SKILLSND is not defined as using MotoPlus sensor related API. Check the combination of the robot and MotoPlus application. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4476: CANNOT EDIT (EDIT LOCK JOB)

An attempt was made to change the data for the job prohibited from being edited.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An attempt was made to change the tag data. | Setting error | Release the prohibition. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4476: CANNOT EDIT (EDIT LOCK JOB) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An attempt was made to change the speed tag data. | Setting error | Release the prohibition. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An attempt was made to change the board thickness tag data. | Setting error | Release the prohibition. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | An attempt was made to change the MARKER job. | Setting error | Release the prohibition. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4477: SELECT ERROR(APPLICATION)

Incorrect selection of application.
When executing a work instruction, the application selection parameter (parameter exclusive for manufacturer) is inconsistent with the application parameter (AP parameter).

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Application number | Setting error | Check the following settings.<br>• Set the application to a specified robot by the application selection of maintenance mode.<br>• A robot which executed SKILLSND is not defined as using MotoPlus sensor related API. Check the combination of the robot and MotoPlus application. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4478: MotoPlus MM TASK NO RESPONSE

MotoPlus application doesn't response more than stipulated time because MM task has not recovered from unexpected condition.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP01 board. save the CMOS.BIN before replacing the board to be safe. After replacement, insert the SD card that has been used for the old ACP01 board to the new one.<br>3. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4479: MotoPlus MM TASK WATCH DOG ERROR

MM Task cannot run more than stipulated time because of MotoPlus application running. Executing high priority task of MotoPlus application may dominate CPU for a long time, which may be preventing the man machine interface task from running.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | Check if there is high priority task of MotoPlus application running long time. Especially, check if there may be the process which waits for a special condition without executing mpTaskDelay in loop process. If such process exists, suitable remedy should be done like putting mpTaskDelay in the loop process. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4480: SELECT ERROR(SENSOR 1)

Incorrect selection of sensor function.
When executing a work instruction, the sensor application selection parameter (parameter exclusive for manufacturer) is inconsistent with the sensor parameter (SE parameter).

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code:Sensor number | Setting error | Select the option function for the specified robot in the option function selection of maintenance mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4484: WRONG PORT NO.(ANALOG OUTPUT)

Incorrect analog output port selection parameter
The value of the parameter AxP010 indicating the leading number of analog output port used for arc welding or sealing application was incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Application number | Setting error | Check the following settings.<br>• Set following value to the AxP010 parameter.<br>For arc: 1<br>Arc + arc: 3<br>Three arc: 5<br>Four arc: 7 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4485: WRONG SELECTION (SENSOR)

When executing a sensor instruction, the robot specified to use the sensor (system parameter) and the robot specified to use the application (system parameter) are unmatched.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4486: PATH OVER

When executing COM-ARC function, the path was beyond the specified path-over monitor zone.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Set the path over radius within the allowable range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4487: WRONG MECH PARAMETER FILE

An error occurred in mechanical parameter for the path control section.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4489: DEFECTIVE TAUGHT POINT(CUTTING)

An error occurred at CUT instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The C- and W-axis position at the cutting start position is not zero pulse. | Setting error | Check the settings for the cutting start position (zero pulse). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Zero is set for the cutting radius. | Setting error | Check the settings for radius (a value bigger than zero). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The cutting machine axis is not mounted. | Setting error | The CUT instruction can be used for the manipulator with small-circle cutting axis only. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4489: DEFECTIVE TAUGHT POINT(CUTTING) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4 | This manipulator cannot perform a hexagonal cutting motion. | Setting error | Select an other cutting form. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4490: DEFECTIVE TAUGHT POINT(ENDLESS)

The Endless motion could not be performed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | After the Endless rotation completed, an attempt was made to execute an interpolation instruction such as MOVL and MOVC before executing an MRESET instruction. | Setting error | To perform an interpolation motion such as MOVL and MOVC after an Endless rotation, execute an MRESET instruction beforehand. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The base axis is set as an Endless rotation axis. The Endless function cannot be used with the base axis. | Setting error | Check the parameter setting that designates the Endless rotation axis. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | An attempt was made to execute the Endless function although the endless axis was not designated. | Setting error | Check the parameter setting that designates the Endless rotation axis. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The Endless axis exceeded the maximum pulse value (plus or minus536870911). | Setting error | Set the rotation amount so that the Endless axis does not exceed the maximum pulse value. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4491: CORRECTIONAL DIRECTION ERROR

An internal control error occurred when calculate the correcting direction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Control-group designation error for correcting-direction preparation | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Designation error for the correcting-direction coordinates | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | When "any direction" is set for the correcting direction, the correction coordinates is not prepared. | Setting error | Check the settings for the correcting direction with the reference point (REFP). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | When "any direction" is set for the correcting direction, the reference points (REFP) are taught on the same point. | Setting error | Check the settings for the reference points (REFP) so that each point is different. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Designation error for the coordinated motion control axis at the reference point | Setting error | Match the control group designation of the wall point and weaving execution. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4492: POSITION CORRECTION ERROR

An error occurred in the calculation section for the correcting direction at path correcting motion.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Data unmatched between the correction amount data and the job data:<br>The information about the control groups designated for the series of jobs, which is added to the correction amount data, does not include the valid control-group for the job. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Data unmatched between the correction amount data and the job data:<br>The valid control-group information that is added to the correction amount data disagrees with the valid control-group for the job. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Tool change err for orientation correction of the tool coordinate | Setting error | It is not possible to change the tool when correct the orientation by the tool coordinate. |

## ◆ 4493: OVER TOOL FILE NO.

The tool file number exceeded the limit value.
The tool number for internal control is 65 or more.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4494: DEFECTIVE TAUGHT POINT(WEAV)

The teaching position setting was incorrect and weaving could not be executed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The weaving start point and end point are on the same point. | Setting error | Check the settings for the positions so that the weaving start point and end point are different. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Among the weaving start point, end point, and reference point, two or three points are on the same point. | Setting error | Check the settings for the positions so that the weaving start point, end point, and reference point are different. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4495: UNDEFINED ROBOT CALIBRATION

Calibration between manipulators has not executed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group which calibration is not completed | Setting error | Before using the coordinated motion, execute the calibration between manipulators. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4496: PARAMETER ERROR

An error occurred when the parameter setting was performed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The setting of the manipulator number is incorrect. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Zero is set for the resolution. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Zero is set in the feedback pulse parameter. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The setting of L-axis ball-screw data is incorrect. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The setting of U-axis ball-screw data is incorrect. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Zero or a negative value is set for MAXPPS. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Zero or a negative value is set for the maximum acceleration speed. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Zero or a negative value is set for the maximum deceleration speed. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | Zero or a negative value is set for the play-mode servo averaging time. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4496: PARAMETER ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 10 | The setting of the manipulator number is incorrect. An undefined type is designated. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | The incorrect coordinate system is designated for the cubic interference. An undefined coordinate system is set. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | The designation of the user coordinates number is incorrect. A number out of the setting range is set. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | The reduction ratio <= 0 is output. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | Zero or a negative value is set for the spring constant. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | Zero or a negative value is set for the motor inertia. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | Zero or a negative value is set for the speed calculation constant. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | Dividing number setting error | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | The setting of allowable torque for the speed reducer is incorrect. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | The setting of allowable torque for the motor is incorrect. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | The manipulator type is not applicable for torque acceleration/deceleration. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | Zero or a negative value is set for the balancer. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4496: PARAMETER ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 22 | The angle of hexagon set for the CUT instruction is out of the range "0 degree < angle < 60 degrees." | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 23 | Encoder type designation error | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 24 | Observer sampling time error | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 25 | Two-degree-of-freedom system Kp value error | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 26 | The setting of torque acceleration/deceleration designation parameter is incorrect. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 27 | Observer polarity setting error | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 28 | The inertia value error for the shift value calculation | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 29 | Observer attenuation constant error | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | Torque estimation parameter error | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 31 | The segment clock error occurred when the PV loop is 1 ms. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32 | Non-robot axis observer selection error | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 33 | Zero is set for the response time constant. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4496: PARAMETER ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 34 | Efficiency data error | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 35 | Zero is set for the averaging time constant. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 36 | Torque limit ratio data error | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 37 | Coulomb friction data error | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 38 | Kinematic friction coefficient data error | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 39 | The setting in the optimized acceleration/deceleration designation parameter is incorrect. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 40 | An uninstalled function is designated. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 41 | The dynamics-model calculation at the optimized acceleration/ deceleration is invalid. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 42 | Zero is set for the inertia of dynamics fixed model. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 43 | Designation error for dynamics-model calculation type | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 44 | The optimized acceleration/ deceleration control of speed limit function is disabled. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 45 | The axis designation parameter for the speed limit function is not set. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4496: PARAMETER ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 46 | The setting in the mode designation parameter for the speed limit function is incorrect. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 47 | Zero or negative value is set in the allowable braking torque parameter for the speed limit function. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 48 | Zero or a negative value is set in the speed adjustment ratio parameter for the speed limit function. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 49 | Zero or a negative value is set in the torque limit adjustment ratio parameter for the acceleration/ deceleration tuning. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 50 | Zero or a negative value is set in the parameter that sets the shortest acceleration/ deceleration time for when the excessive torque is applied at the optimized acceleration/ deceleration. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 51 | Zero is set for the dimension information "a3" for the SKR manipulator. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 52 | The setting of sealer-gun control-group parameter for the servo sealer control is incorrect. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 53 | The parameter setting for the Cartesian manipulator X-axis data is incorrect. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 54 | The parameter setting for the Cartesian manipulator Y-axis data is incorrect. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 55 | The setting for the Dual-arm manipulator is incorrect. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 56 | Zero or a negative value is set in the FORMCUT maximum acceleration/deceleration time parameter. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 57 | The setting of expanded check-point designating bits for the arm interference check is incorrect. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4496: PARAMETER ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 60 | Zero or a negative value is set for the sphere at the arm interference check point. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 61 | Zero or a negative value is set for the cylinder at the arm interference check point. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 62 | The number of designated check points for the arm interference check is insufficient. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 70 | All of X, Y, and Z value of the expanded check-point 1 for the arm interference check are set to zero. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 71 | All of X, Y, and Z value of the expanded check-point 2 for the arm interference check are set to zero. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 85 | The setting of wrist axis angle for tube-incorporated wrist type manipulators or three-roll wrist type manipulators is incorrect. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 86 | The special link JOG operation cannot be used with this manipulator. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 87 | The setting in the parameter for special angle limit check designation is incorrect. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 91 | The setting of the deceleration speed for the path-priority control is less than zero. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 92 | A negative value is set in the roundness parameter for the path-priority control. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 93 | The link parameter for the cutting device is not set. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 95 | The real-time bending correction function is enabled for a control-group other than robot axis. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4496: PARAMETER ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 96 | Zero is set for the dimension information "a2" for the Arc Cell Torch Arm type manipulators. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 97 | Zero is set for the deceleration ratio for double T-axis unit of the V-shaped double T-axis manipulator. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 103 | "alpha" is replaced with "0" in SKR1-5 type robot. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 118 | Wrong value in set for backlash correction function. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 121 | Incorrect parameter setting to inertia speed control function. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 122 | Incorrect acceleration/ deceleration time setting at tool mass acceleration/deceleration speed correction function. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 123 | Incorrect coefficient/item settings at tool mass acceleration/deceleration speed correction function. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 124 | No tool mas as the minimum acceleration/deceleration time at tool mass acceleration/ deceleration speed correction function. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 125 | Incorrect speed setting at tool mass acceleration/deceleration speed correction function. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 126 | Incorrect coefficient/item settings at tool mass acceleration/deceleration speed control function. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 127 | No tool mass as the maximum acceleration/deceleration time at tool mass acceleration/ deceleration speed control function. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 129 | An error in the standard arithmetical axis number setting for approximation model. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4496: PARAMETER ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 130 | An error in the standard expanding point number setting for approximation model. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 131 | An error in the radius setting for approximation model. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 132 | setting error of arithmetical axis number in D-H method. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 133 | setting error of choosing no / wrong connection base arithmetical axis number in D-H method. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 134 | The higher-order acceleration/ deceleration is prohibited when using operation acceleration / deceleration | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 135 | Base axis control point to Robot coordinate system offset setting prohibited | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 136 | Pulse linked JOG function specification error | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 137 | Dual drive control specification error | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 138 | Notch filter supported acceleration and deceleration tuning: Notch filter function setting error | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 139 | Notch filter supported acceleration and deceleration tuning: Notch filter (z2) setting error | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 147 | NON ACTIVATION of Servo Simulation function error | Setting error | Enable Servo Simulation Function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 149 | The setting error of vibration suppression filter for SVSPOTMOV | Setting error | Confirm that the threshold value for the vibration suppression filter should be larger than the one in previous table. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4496: PARAMETER ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 150 | the setting error of time constant for the vibration suppression filter for SVSPOTMOV | Setting error | Confirm that the time constant for vibration suppression filter for SVSPOTMOV must be the different value of Kp. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 152 | the setting error of the number for vibration suppression filter for SVSPOTMOV | Setting error | Confirm that the number of the tables activated for vibration filter is less than 5. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 154 | The setting in the parameter for special mechanical interference is incorrect. | Setting error | Correct the setting value of the parameter for special mechanical interference. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 157 | Endless function encoder err | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 158 | Incorrect parameter setting at tool mass acceleration/ deceleration speed control function. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 160 | Incorrect parameter setting at tool mass acceleration/ deceleration speed limit function. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 161 | Incorrect parameter setting at gun speed limit function. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 162 | Timing delay control function was invalid | Setting error | Enable timing delay control function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 165 | Incorrect parameter setting at TCP speed acceleration/ deceleration speed limit function. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 168 | Incorrect parameter setting at short pitch interval SPF frequency change function. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 169 | Incorrect parameter setting at press full synchronous shift amount press speed. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4496: PARAMETER ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 170 | Incorrect parameter setting at speed corresponding position correction amount condition. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 171 | Incorrect parameter setting at inertia SPF frequency change function. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 177 | | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4497: DEFECTIVE TAUGHT POINT(CALIB)

An error occurred in calibration teaching between manipulators.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Some of the teaching points for master-group are on the same point. | Setting error | Perform the teaching again so that the teaching points are different from one another. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Some of the teaching points for slave-group are on the same point. | Setting error | Perform the teaching again so that the teaching points are different from one another. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The 2nd-axis positions of C3, C4, and C5 of station axes are not the same. | Setting error | Perform the teaching again so that the 2ndaxis positions of C3, C4, and C5 of the station axes are the same. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The 1st-axis positions of C1, C2, and C3 of station axes are not the same. | Setting error | Perform the teaching again so that the 1staxis positions of C1, C2, and C3 of station axes are the same. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The 2nd-axis positions of C1, C2, and C3 of station axes are the same. | Setting error | Perform the teaching again so that the teaching positions are different from one another. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The 1st-axis rotation direction of C3, C4, and C5 of station axes are not the same. | Setting error | Perform the teaching again so that the 1staxis rotation direction of C3, C4, and C5 of station axes are the same. |

**4497: DEFECTIVE TAUGHT POINT(CALIB) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The 1st-axis (elevation axis) positions of C1, C2, and C3 of station axes are not the same. | Setting error | Perform the teaching again so that the 1staxis (elevation axis) positions of C1, C2, and C3 of station axes are the same. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The 1st-axis (elevation axis) positions of C3, C4, and C5 of station axes are not the same. | Setting error | Perform the teaching again so that the 1staxis (elevation axis) positions of C3, C4, and C5 of station axes are the same. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4498: CANNOT EXECUTE JOB(NO GRP AXIS)

The function which is not allowed in TEST RUN(HIGH ACCURACY) was performed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An attempt was made to execute an instruction that could not be executed in a job without control group. | Setting error | Check the settings for the job instruction with control group. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4499: UNDEFINED POSITION VARIABLE

An attempt was made to use the position type variable that was not set.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: The variable number | Setting error | Check the settings for the position type variable. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4500: UNDEFINED USER FRAME

An attempt was made to use the user coordinate that was not set.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: User coordinate number | Setting error | Check the settings for the user coordinate. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4501: OUT OF RANGE(PARALLEL PROCESS)

An error occurred in the multi-task control process for the independent control function.
The number of tasks exceeded the limit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Task number | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4502: SL BOARD ON-LINE ERROR

An error occurred in option board at power ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The option board was detected not to operate normally at power ON. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP02 board. Save the CMOS.BIN before replacing the board to be safe. |

## ◆ 4505: UNDEFINED POSITION FOR ARC ON

Arc retry could not be executed because there was no step before the ARCON instruction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Register a step before the ARCON instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4506: UNDEFINED POS FOR RESTART RETURN

Arc-restart-return could not be executed because there was no restart-return step in the job. (Example: A retry request was made while executing a step of the called job.)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for the job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4507: REFP POS ERROR(SEARCH MOTION)

Incorrect teaching point for search detection
The search start point and the motion target point are the same, or the distance between the two points is too short.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the following settings.<br>• Perform the teaching again so that the search start point and the motion target point are not the same.<br>• Increase the distance between the search start point and the motion target point. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4508: SPECIFIED ERROR(COORDINATE)

An invalid coordinate system was specified.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | The specified coordinate system does not exist. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | Designation error of the master tool coordinate system. This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Designation error of the tool coordinate system. This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Designation error of the direction of travel coordinate system (for a shared function). This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Designation error of the any direction coordinate system (for a shared function). This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4508: SPECIFIED ERROR(COORDINATE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 5 | Designation error of the approximation tool coordinate system (for a shared function). This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Designation error of the conveyor coordinate system. This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Designation error of the COMARC coordinate system. This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | Designation error of the power sensor coordinate system. This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Designation error of the cylindrical coordinate system. This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | Designation error of the coordinate system for the external reference point. This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | Designation error of the coordinate system for 3D shifting. This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4508: SPECIFIED ERROR(COORDINATE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 13 | Designation error of the KOMATSU tool Z-direction operation coordinate system. This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | Designation error of the KOMATSU tool JOG operation coordinate system. This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | Designation error of the coordinate system at IMOV for 3D shifting. This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | Designation error of the H-LINK type cylindrical coordinate system. This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | Designation error of the FSER_ FRAME type cylindrical coordinate system. This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | Designation error of the reference USER_FRAME type cylindrical coordinate system. This coordinate system cannot be used. | Setting error | Check the settings for the coordinate system which can be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4509: MFRAME ERROR

An error occurred at MFRAME execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The master-tool user coordinates could not be prepared. | Setting error | Execute the MFRAME instruction in coordinated job when you make the master tool user coordinate. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | reference user frame cannot be used. | Setting error | Check the following settings.<br>• reference user frame |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | position type variable (P variable) cannot be used. | Setting error | Check the following settings.<br>• position type variable (P variable). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4510: CANNOT EXECUTE INSTRUCTION(SQRT)

The SQRT instruction could not be executed.
An attempt was made to calculate the square root of negative value. (The second argument was negative.)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the job settings so that the second argument of SQRT instruction does not become negative. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4511: OUT OF RANGE(DROP-VALUE)

The pulse difference of the robot position exceeded the allowable value between when the servo was OFF previously and when the servo was ON this time.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group exceeding the allowable value | Setting error | Confirm the load setting to the robot. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4512: TWO STEPS SAME LINE(3 STEPS)

In the user coordinates for calibration between manipulators, three or more teaching points are aligned in a straight line.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings so that the teaching points are not aligned in a straight line. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4513: EXCESSIVE SEGMENT(SAFETY 1): LOW/HIGH

This alarm occurs if the operation command which exceeds the designated max. speed is output.
It may occur when the robot operates near the singular point or when the robot is going to change its orientation widely with single control point.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group and axis | Setting error | Check the following settings.<br>• Reduce the speed of the step where the alarm occurred.<br>• Change the move instruction to joint interpolation (MOVJ).<br>* Be careful to the peripheral interference since its movement changes. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4515: EXCESSIVE SEGMENT(SAFETY 2): LOW/HIGH

This alarm occurs if the operation command which exceeds the designated max. speed is output.
It may occur when the robot operates near the singular point or when the robot is going to change its orientation widely with single control point.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group and axis | Setting error | Check the following settings.<br>• Reduce the speed of the step where the alarm occurred.<br>• Change the move instruction to joint interpolation (MOVJ).<br>* Be careful to the peripheral interference since its movement changes. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4517: SEARCH MONITOR SET ERROR(SERVO)

An error occurred in search/monitoring mode settings in servo section.
An error occurred in interface with servo section at search/monitoring mode.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: The related control-group | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4518: SEARCH MON RELEASE ERR(SERVO)

An error occurred in search/monitoring mode releasing in servo section.
An error occurred in interface with servo section at search/monitoring mode.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: The related control-group | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4520: AXIS BLOCKING

A motion was commanded for the group axis during axis block at play mode.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group | Setting error | Check the settings for the general-purpose input signal set in the parameter. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4521: WRONG JOB TYPE

Job type is inconsistent.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code<br>0000_0001: A robot job was started from the concurrent job at CALL/JUMP instruction execution.<br>0000_1001: A concurrent job was started from the robot job at CALL/JUMP instruction execution.<br>1000_0001: A system job was started from the robot job at CALL/JUMP instruction execution. | Setting error | Check the settings for the job to be started. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4522: TAG DATA CHANGE PROCESS ERROR

An error occurred at tag data change.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An attempt was made to change the contents of variable tag data. | Setting error | The variable tag cannot be changed. Correct the job so as not to use the variable tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | An attempt was made to change the tag data for the job prohibited from being edited. | Setting error | Release the prohibition. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An error occurred at instruction read-in. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The tag is not registered. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The tag data was variable specification. | Setting error | The variable tag cannot be changed. Correct the job so as not to use the variable tag. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The value which it was made to change exceeded the limit of tag data. | Setting error | Check the contents of changing data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | An error occurred at tag data change. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4523: SHARED AXES CONTROL ERROR

An error occurred at shared base axes control.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The teaching points are incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Robot information for implementing the shared base axes control can not be acquired. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4523: SHARED AXES CONTROL ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3 | Robot axes, base axis specification error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Control number of the main side base axis is abnormal. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Independent control base axis group error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Shared base axes current value creation error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Independent control slave side speed calculation error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Independent control slave side speed check error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | Independent control Prohibit command execution error. | Setting error | In shared base axes control, the robot of slave side MOVS, EIMOVL, EIMOVC can not be used. Please correct the job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Independent control slave side coordinated motion specification error. | Setting error | The independent control slave side, can not be coordinated motion. Please correct the job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4524: CANNOT EXECUTE INST(CONCUR JOB)

An error occurred at concurrent job execution.
There was an instruction that cannot be executed such as move instruction in the concurrent job.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Delete an instruction that cannot be executed such as move instruction in the concurrent job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4525: CANNOT EXECUTE SPECIFIED JOB

The specified JOB couldn't be executed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An interrupt job (user setting) is started up during the back operation. | Setting error | Check the job so that the interrupt job will not start-up during the back operation. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An suspend macro job is started up during the back operation. | Setting error | Check the job so that the suspend macro job will not start-up during the back operation. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | An interrupt job (inside the system) is started up during the back operation. | Setting error | Check the job so that the interrupt job will not start-up during the back operation. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | A FOLGE job is started up from a job except the registered master job. | Setting error | Check the job so that the FOLGE job will start-up from the registered master job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4527: UNDEFINED PORT NO.(AOUT)

Incorrect analog output port number
The specified analog output port number was not allowed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for the specified analog output port number. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4528: SYNTAX ERROR

An error occurred in the instruction syntax.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | A syntax error was found in the IF sentence. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4529: TWIN COORDINATED ERROR

An error occurred at twin synchronization execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | A job without control group was started by SYNC instruction. | Setting error | Check the control group setting of the job to be started by SYNC. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | A job only with robot axes was started by SYNC instruction. | Setting error | Check the control group setting of the job to be started by SYNC. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | A job only with master control group axes was started by SYNC instruction. | Setting error | Check the control group setting of the job to be started by SYNC. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | At full synchronization, the completion timings of move instructions for the master and the slave disagreed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | At full synchronization, no operation request from the master was sent. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | At full synchronization, the execution timings of move instructions for the master and the slave disagreed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The twin synchronous ID number is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | An attempt was made to execute triple synchronization when specified Sub-master for the master was different. | Setting error | Match the system number specification of the master between the job to be started by SYNC. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4530: CONVEYOR TRACKING ERROR

An error occurred in conveyor synchronization execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The base axis specification is other than 1 or 2 for conveyor characteristic file. | Setting error | Set the base axis specification of conveyor characteristic file to either 0, 1, or 2. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | No robot axis in the job for robot axis tracking | Setting error | Correct the job setting so that the robot axis tracking is executed in the job where robot axis exists. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | No base axis in the job for base axis tracking | Setting error | Correct the job settings so that the base axis tracking is executed in the job where base axis exists. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The conveyor board number and conveyor characteristic file number used are incorrect. | Setting error | Check the specification of conveyor condition file number for use. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | There was no conveyor start position data at prereading processing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | No base axis in the job for arc tracking | Setting error | Correct the job setting so that the arc tracking is executed in the job where robot axis exists. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | The set value for the TRACKING CORRECTION in a Conveyor condition file is abnormal. | Setting error | Set a larger value for the TRACKING CORRECTION in the Conveyor condition file to be used. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4531: UNDEFINED CONVEYOR COND FILE

Conveyor characteristic file is not set.
"Use state" of the conveyor characteristic file set for the job is not set to "1: Use".

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Conveyor characteristic file number | Setting error | Set "Use state" of conveyor characteristic file to "1: Use." |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4532: CONVEYOR SPEED DOWN

The conveyor speed decreased below the "Conveyor Lowest Speed" set in the conveyor characteristic file.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Conveyor number | Setting error | Correct the "Conveyor Lowest Speed" set in the conveyor characteristic file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4533: ARITHMETIC ERROR(CV TRACKING)

An error occurred when conveyor tracking was being used.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Designation error of the conveyor tracking control-group | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Designation error of the user coordinates for the conveyor tracking | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | An attempt was made to use the conveyor tracking function with the slave manipulator at coordinate motion. | Setting error | The conveyor tracking cannot be executed to the slave manipulator of the coordinate system. Correct the job so that the conveyor tracking perform by the robot unit or without coordinated motion. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Zero is set for the resolution for the turn-table synchronization. | Setting error | Check the settings for the resolution. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4534: TORQUE INTERFERENCE

The load torque of an axis motor exceeded the allowable value when the manipulator is operating at the specified speed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the following settings.<br>• Correctly set the weight information in the tool file. ( Are the weight: W and the number set to the load value of either Xg, Yg or Zg?)<br>• Reduce the speed in the step where the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4535: TARGET VARIABLE TYPE UNMATCHED

An error occurred when the system variable was obtained .

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An attempt was made to obtain the byte type system variable by the other type variable. | Setting error | Obtain as the byte type variable. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | An attempt was made to obtain the integer type system variable by the other type variable. | Setting error | Obtain as the integer type variable. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An attempt was made to obtain the double-precision integer-type system variable by the other type variable. | Setting error | Obtain as the double-precision integer-type variable. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | An attempt was made to obtain the real-number type system variable by the other type variable. | Setting error | Obtain as the real-number type variable. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | An attempt was made to obtain the character-string type system variable by the other type variable. | Setting error | Obtain as the character-string type variable. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4538: ROBOT AXIS TRACKING INVALID

An error occurred while performing robot axis tracking.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | "SYMOVJ" instruction is executed at robot-axis tracking. | Setting error | Do not use "SYMOVJ" instruction in robot axis tracking. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4539: CORNER R CONTROL ERROR

An error occurred at corner-R execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The Corner-R motion cannot be used for coordinated motion. | Setting error | Do not use the Corner-R motion for coordinated motion. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An attempt was made to execute the Corner-R motion for the same point. | Setting error | Check the settings for the teaching so that the start step and end step are not on the same point. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The Corner-R zone is taught on a straight line. | Setting error | Check the settings for teaching so that the Corner-R zone is not on a strait line. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The start position or end position for the Corner-R motion could not be calculated inside the start zone or the end zone. | Setting error | Check the following settings.<br>• Make the setting for the Corner-R radius small.<br>• Make the moving amount of the Corner-R start step long.<br>• Make the moving amount of the Corner-R start end long. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The Corner-R motion cannot be used for coordinated motion (with master manipulators). | Setting error | Do not use the Corner-R motion for master manipulators at coordinated motion. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The Corner-R motion cannot be used for MOVC, MOVS, and EIMOVC instructions. | Setting error | Use a MOVL instruction when using the Corner-R motion. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The Corner-R motion is disabled during weaving. | Setting error | Do not perform weaving when using the Corner-R motion. |

**4539: CORNER R CONTROL ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Different tool numbers are set in a Corner-R zone (for the Corner-R middle step and end step). | Setting error | Use the same tool number in a Corner-R zone. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | The Corner-R motion is disabled when the higher-order acceleration/deceleration is specified. | Setting error | Disable the higher-order acceleration/deceleration when using the Corner-R motion. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | The Corner-R motion is disabled during conveyor tracking. | Setting error | Do not perform the conveyor tracking when using the Corner-R motion. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | Arithmetic error occurred when calculating the acceleration and deceleration time for the Corner-R operation | Setting error | Do not perform the conveyor tracking when using the Corner-R motion. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | Arithmetic error occurred when calculating acceleration and deceleration during test run in consideration of servo delay for the Corner-R motion. | Setting error | Do not perform the conveyor tracking when using the Corner-R motion. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4540: JOB QUE EMPTY ERROR

No job queue data.
"QUE" is used in CALL or JUMP instruction under the condition that no job queue is used.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Use "CALL QUE" under the condition that the job data is set to the job queue . |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4541: INVALID INPUT STRING(VAL)

An error occurred at VAL instruction execution.
A character string could not be converted to a numerical value.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | There was no character string representing a constant in character string to be extracted at VAL instruction execution. | Setting error | Check the settings for the data of the character string to be extracted. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4542: MRESET ERROR

An error occurred at MRESET instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An MRESET instruction was executed while no endless axis was designated. | Setting error | Set the endless axis. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4543: STACK LESS THAN 0(JOB CALL)

An error occurred at job return.
An error occurred in control of job call stack.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | At job return, an attempt was made to fetch a data from an empty job call stack or to stack a data in the job call stack that is full. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4544: MID$ INST ERROR

An error occurred at MID$ instruction execution.
The character string could not be extracted.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The first character of character string to be extracted is null at MID$ instruction execution. | Setting error | Check the settings for the data of the character string to be extracted. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4544: MID$ INST ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | The extraction start position exceeds the character string length at MID$ instruction execution. | Setting error | Check the settings for the data of the character string to be extracted. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4546: CANNOT EXECUTE SYSTEM JOB

The system job could not be executed.
An error in the system start number of system job.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: System number | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4547: PRIMITIVE ERROR

An error occurred in OS.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Error code | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4548: CANNOT OPERATE SPECIFIED EVENT

The specified event could not be operated at INIEVNT instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: System number | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4549: NOT EXECUTION OF INIEVNT

INIEVNT instruction was not executed before having executed the event related process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: System number | Setting error | Execute an INIEVNT instruction before executing an event related instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4550: CANNOT EXECUTE INST(USER JOB)

The specified instruction in the user job could not be executed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: System number | Setting error | This instruction cannot be executed in the system job. Correct the job so that the instruction is executed in the user job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4551: CANNOT MEASURE TIP INSTALL COEF

When executing "SVGUNCL TWC=BE", the tips installation correction value of fixed side was not measured, so the tips installation correction value of movable side could not be measured,

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Gun number | Setting error | Execute the "SVGUNCL TWC-AE", and then execute the "SVGUNCL TWC=BE". |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4565: SOFTWARE UNMATCH

The used function and the system are inconsistent.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The multi-layer welding function is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The observer function is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The TURBO function is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The COMARC function is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The conveyor/press synchronization function is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The shared motion function is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4565: SOFTWARE UNMATCH (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 7 | The layer motion function is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The general sensor function is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | The servo float function is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | The laser cutting function (with small circle cutter) is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | The motor gun function (for spot welding application) is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | The speed control function (VCON/VCOF) is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | The servo hand function (for handling application) is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | The laser cutting function (for form cutting operation) is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | The series communication function between the systems (PSEND/PRECV) is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | The motion extension function is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | The ME-NET function is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | The MEMO-PLAY function is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4565: SOFTWARE UNMATCH (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 20 | The 3D-SHIFT function is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | The Equalization function is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | The press synchronization function is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 23 | The roller hem function is not used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 255 | An attempt was made to execute an undefined instruction. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4566: USER FRAME MAKING ERROR

An internal control error occurred at preparation of a user coordinates.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The teaching points are incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The teaching points for user-coordinate turning are incorrect. | Setting error | Among three taught points in the teaching position. Teach the three points again so that they do not lie in the straight line. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The robot axis is not specified for the control group of the job to prepare the user coordinates. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Position data error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Setting error of the slave group for user coordinate conversion | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4567: CANNOT MONITOR DISTANCE

The distance could not be monitored when executing a move instruction.
An attempt was made to execute MOVJ/MOVS instruction in arc retry or restart operation.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the following settings.<br>• Change the interpolation instruction to MOVL/MOVC.<br>• Change the setting so that the arc retry or restart operation does not perform. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4568: UNDEFINED PRESS COND DATA FILE

No press characteristic file is set.
An attempt was made to use the unused press characteristic file in a job.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Press characteristic file number | Setting error | Set the status of press characteristic file to be used in the job to "Used State." |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4569: UNDEFINED PRESS RESOLUTION DATA

No press resolution data is set.
The status of press resolution data to be used in the job was set to "Incomplete".

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Press characteristic file number | Setting error | Set the press resolution data to be used in the job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4571: SERVO FLOAT MODE RELEASE ERR

The servo float mode could not be reset when executing a FLOATOF instruction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4572: NO SERVO GUN CONTROL GROUP

The control group for the motor gun is not set.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Set the "motor gun axis" in the control group setting of maintenance mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4573: SPOT WELDER NO. ERROR

The spot welder number is incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Welder number | Setting error | Correct the welder number set in the gun characteristic file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4574: SPOT WELD COMPLETE TIME LIMIT

The spot welding did not complete within the specified time.
Neither the welding completion signal nor the welding error signal was received from the timer conductor within the set time.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Welder number | Setting error | Check the following settings.<br>• Turn ON the timer contactor power.<br>• If the response from the timer takes too long time due to the system layout, increase the timeout time. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4575: ERROR IN WELD START TIMING SET

Incorrect setting of spot welding start timing
For motor gun, the welding timing was set to "After First Pressure" while no 2nd pressure was set.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the following settings.<br>• Check the settings for the "WST" tag.<br>• Check the settings for the pressure file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4576: ERR IN MOTOR GUN CONT MODE

The gun control mode could not be set at SVSPOT/SVGUNCL instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4577: ERR IN MOTOR GUN MODE RELEASE

The gun control mode could not be released at SVSPOT/SVGUNCL instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4578: SPOT WELD ERROR

An error occurred when executing welding using the specified system timer conductor.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Welder number | Setting error | Check the settings for the timer conductor where the welding error occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4579: ANTICIPATION CONTROL ERROR

An error occurred in the anticipation control processing.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | No availability in anticipation control | Setting error | Maximum simultaneous execution number of anticipation control is twenty. Correct the settings for the job so that it is within twenty. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The anticipation data exceeded the maximum length. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | anticipation control did not complete within the setting time. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4580: ANTICIPATION DISTANCE NOT ENOUGH

Anticipation could not be executed at re-painting.
No return step in re-painting function after emergency stop.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Operate the manipulator to the start position of the step where the alarm occurred, and then re-execute. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4581: DEFECTIVE ANTICIPATION OT FILE

An error occurred in the anticipation output file.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Incorrect setting of OT output number for anticipation output file | Setting error | Check the setting value of OT output number. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Incorrect setting of OG output number for anticipation output file | Setting error | Check the setting value of OG output number. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4583: CANNOT EXECUTE GUN TYPE

An invalid gun type is set.
The mode impossible to control is set for the gun.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for the motion mode set to the gun. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4584: STRWAIT TIME LIMIT

An error occurred when executing a STRWAIT instruction.
No confirmation signal specified in the stroke change confirmation instruction was input within the set time.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the cause such as defective limit switch. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4585: SERVO PG ON ERROR

The encoder (PG) power supply could not be turned ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Each axes encoder cable |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4587: MOTOR GUN CHANGE ERROR

An error occurred when gun change execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | A GUNCHG instruction was executed in the system configuration that did not allow the gun change function. | Setting error | Validate the gun change parameter. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | A GUNCHG/PICK instruction was executed while the motor gun motor was servo ON. | Setting error | Execute GUNCHG/PICK instruction when the motor gun motor is servo OFF. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | A GUNCHG/PICK instruction was executed while the ATC was in unchuck status. | Setting error | Execute GUNCHG/PICK instruction when the ATC is in chuck status. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | A GUNCHG/PLACE instruction was executed while the ATC was in unchuck status. | Setting error | Execute GUNCHG/PLACE instruction when the ATC is in chuck status. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The encoder power supply could not be turned ON when executing a GUNCHG/PICK instruction. | Connection failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• The encoder cable of motor gun |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The encoder power supply could not be turned OFF when executing a GUNCHG/PLACE instruction. | Connection failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• The encoder cable of motor gun |

**4587: MOTOR GUN CHANGE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The gun number specified by the GUNCHG instruction did not agree with the gun identification signal. | Setting error | Check the following settings.<br>• Change the gun characteristic file number specified by GUNCHG instruction to object gun number.<br>• Change the gun identification signal so that it become the objective gun number. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The 1st gun axis selection signal is not set when executing the twin-wrist gun change. | Setting error | Check the 1st gun axis selection signal setting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | The right and left gun axis selection signals were duplicated when executing the twin-wrist gun change. | Setting error | Check the setting for the gun axis selection signal. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | The control group for gun axis is not set in the gun change job. | Setting error | Check the settings for the control-group of the job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | Multiple manipulators are not set in the gun change job. | Setting error | Check the settings for the control-group of the job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4589: ABRASION BASIS POS UNSETTING

When executing the wear correction operation, the reference position of wear correction was not registered under the condition that "Specific input: overwriting reference position of wear detection" was turned OFF.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Resister the reference position of wear correction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4590: NO SERVO HAND CONTROL GROUP

The control group was not set for the servo hand control.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Set the "servo hand axis" in the control group setting of maintenance mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4591: SPEED CTRL MODE SET ERR(SERVO)

The speed control mode could not be set at VCON instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4592: SPEED CTRL MODE CANCEL ERR(SV)

The speed control mode could not be released at VCON instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4593: SVHAND CTRL MODE SET ERR(SERVO)

The servo hand control mode could not be set at SHPICK instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4594: SVHND CTRL MODE CANCEL ERR(SV)

The servo hand control mode could not be set at SHPLACE instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4595: CAN'T DO FIXED FORM CUT MOTION

An error occurred at form cutting operation.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The setting for radius is incorrect.<br>1. For a circle, it is incorrectly set as: radius <= 0, radius < minimum radius value, or radius > maximum radius value.<br>2. For an ellipse, it is incorrectly set as: radius <= 0, radius < minimum radius value/2, or radius > (maximum radius/2 - width/2). | Setting error | Check the following settings.<br>• Setting of the radius data |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The setting for width is incorrect.<br>1. For a rectangle, it is incorrectly set as: width < 1.0, width > sqrt (maximum diameter2 - height2), or width > maximum diameter.<br>2. It is incorrectly set as: width < 0, width > maximum diameter -2 * radius. | Setting error | Check the following settings.<br>• Setting of the width data |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The setting for height is incorrect.<br>1. For a rectangle, it is incorrectly set as: height > maximum diameter, height < minimum diameter/2, or height > sqrt (maximum diameter2 - width2). | Setting error | Check the following settings.<br>• Setting of the height data |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The setting for the corner radius is incorrect.<br>1. For a rectangle, it is incorrectly set as: corner radius > width/2 or corner radius > height/2. | Setting error | Check the following settings.<br>• Setting of the corner radius |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4595: CAN'T DO FIXED FORM CUT MOTION (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 5 | The setting for overlap is incorrect.<br>1. For a rectangle, it is incorrectly set as overlap > width/2.<br>2. For a circle, it is incorrectly set as overlap > ABS (2Pi * radius).<br>3. For an ellipse, it is incorrectly set as overlap > Pi * radius +ABS (width/2). | Setting error | Check the following settings.<br>• Setting of the overlap data |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The setting for the cutting speed is incorrect. It is set as the cutting speed > maximum linear speed. | Setting error | Check the following settings.<br>• Setting of the cutting speed |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Coordinated motion cannot be used with the Form Cutting motion. | Setting error | Do not use the coordinated motion. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Zero or a negative value is set in the minimum diameter parameter (S1CxG063) for the Form Cutting motion. | Setting error | Check the following settings.<br>• The setting of the minimum diameter parameter (S1CxG063) for the Form Cutting motion. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | Zero or a negative value is set in the maximum diameter parameter (S1CxG064) for the Form Cutting motion. | Setting error | Check the following settings.<br>• The setting of the maximum diameter parameter (S1CxG063) for the Form Cutting motion. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Although "PLACEMENT" or "AUTO" is set for the start point designation on the FORM CUT SETTING window, the FORMAPR instruction was not executed. | Setting error | Execute the FORMAPR instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4595: CAN'T DO FIXED FORM CUT MOTION (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 11 | The Cut file setting of the FORMAPR instruction is different from that of the FORMCUT instruction. | Setting error | The Cut file settings of FORMAPR and FORMCUT instructions must be same. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | A FORMAPR instruction was used for the conventional FORMCUT instruction. | Setting error | Check the following settings.<br>• The FORMAPR instruction cannot be used for the conventional FORMCUT instruction.<br>• Validate the new FORMCUT instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | A form other than a circle, rectangle, and ellipse was designated for the conventional FORMCUT instruction. | Setting error | Check the following settings.<br>• A form other than a circle, rectangle, and ellipse cannot be designated for the conventional FORMCUT instruction.<br>• Validate the new FORMCUT instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 90 | The radius data setting for special circular interpolation is incorrect. It is incorrectly set as the radius <= 0. | Setting error | Check the following settings.<br>• Setting of the radius data |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 91 | The arc center coordinates could not be calculated at special circular interpolation. Incorrect teaching may be the cause. | Setting error | Check the following settings.<br>• Setting of the teaching |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 93 | The averaging time at special circular interpolation motion is too short. | Setting error | Check the following settings.<br>• Moving distance<br>• Motion speed |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 94 | Because the designated plane included reference points at special circular interpolation motion, the arc center coordinates could not be calculated. Incorrect teaching of the reference point 2 may be the cause. | Setting error | Check the following settings.<br>• Setting of the reference point 2 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4595: CAN'T DO FIXED FORM CUT MOTION (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 100 | The arc center position is not set for the special circular interpolation motion. | Setting error | Check the settings for the reference point 1 as the arc center position. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4596: FORMCUT ERROR

An error occurred at FORMCUT instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An attempt was made to re-execute the FORMCUT instruction after interrupting it. | Execute condition failure | Re-execute the move instruction executed before the FORMCUT instruction, and then execute the FORMCUT instruction again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4597: OFFLINE POSITION DATA CONVERT ERR

An internal control error occurred at offline position data conversion.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Incorrect information of reference position data for offline position data conversion | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Incorrect user-coordinate number designation in the standard position data for offline position data conversion | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Incorrect reference-point data for offline position data conversion | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The standard position data for offline position data conversion could not correctly be calculated. | Setting error | The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Incorrect pulse incremental value for offline position data conversion | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The position data could not correctly be added by the pulse incremental value at the offline position data conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4597: OFFLINE POSITION DATA CONVERT ERR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 7 | Incorrect Cartesian incremental value for offline position data conversion | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The position data could not correctly be added by the Cartesian incremental value at the offline position data conversion. | Setting error | The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | The position conversion could not be done in the designated coordinate system at the offline position data conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Incorrect incremental value of angle for offline position data conversion | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | The position data could not correctly be added by the incremental value of angle at the offline position data conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | The reverse shift value for 3D shifting could not correctly be calculated at the offline position data conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | The reverse shift value for 3D shifting could not correctly be added at the offline position data conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | The reverse shift value could not correctly be calculated at the offline position data conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | The reverse shift value could not correctly be calculated at the offline position data conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | The 3D shifting value could not correctly be added at the offline position data conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | The shift value could not correctly be added at the offline position data conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4597: OFFLINE POSITION DATA CONVERT ERR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 18 | No reference point is specified for the offline position data conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | The positions for the mirror shift function could not correctly be calculated at the offline position data conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | The positions could not correctly be converted for the mirror shift function at the offline position data conversion. | Setting error | The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | The expansion positions for the mirror shift function could not correctly be converted at the offline position data conversion. | Setting error | The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | Incorrect designation of coordinates for a new mirror-shift conversion function at the offline position data conversion | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 23 | Incorrect designation of the occupation control group for welding path shift function. | Software operation error occurred | 1. Reset the alarm, select [UTILITY]-[ARC SHIFT CANCEL], and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 24 | The inverse shift data for welding path shift function could not correctly be calculated. | Software operation error occurred | 1. Reset the alarm, select [UTILITY]-[ARC SHIFT CANCEL], and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 25 | The inverse shift data for welding path shift function could not correctly be added. | Software operation error occurred | 1. Reset the alarm, select [UTILITY]-[ARC SHIFT CANCEL], and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4598: PAINTOUT ERROR

An error occurred at PAINTOUT instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The parameter setting for the universal input group number is incorrect. | Setting error | Check the settings for the AxP011. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4599: SERVO COMMAND ERROR

The command could not be sent to the servo section.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An attempt was made to issue the command while the servo control processing has not completed.<br>Sub Code: Servo CPU bit number | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4601: UNDEFINED GUN COND FILE

Gun condition file is not set.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Gun condition file number | Setting error | Complete the gun condition file setting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4603: WIRE STICKING

Wire stick occurred at spot welding.
Wire stick was detected at the welder.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Welder number | Setting error | Remove the cause of wire stick. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4604: SPECIFIED ERR(ABSO RECOVER AXIS)

No home position correction data of specified axis.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the following settings.<br>• Registration for the home position correction data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4605: SETTOOL ERROR

An error occurred when executing a SETTOOL instruction.
The difference between the current tool constant and a new set value exceeded the allowable range (parameter set value).

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The difference between the current tool constant and a new set value exceeded the allowable range (parameter set value). | Setting error | Check the following settings.<br>• Correct the job so that the setting value of tag is allowable value.<br>• Set the allowance amount of the tool data automatic setting function maximum deviation (S3C1192) to large value. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The difference between the monitoring condition of tool and a new set value exceeded the allowable range (parameter set value). | Setting error | Check the following settings.<br>• Correct the job so that the setting value of tag is allowable value.<br>• Set the allowance amount of the tool data automatic setting function maximum deviation (S3C1193) to large value.<br>• Set the monitoring condition of the tool data properly. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4606: LACK OF GLOBAL VARIABLE AREA

The memory area of global variable exceeded the limit value.
An error occurred in the value of parameter that defines the number of global (user) variables.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4607: WRONG EXECUTION OF MACRO INST

An error occurred at macro instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The execution macro job is not set. | Setting error | Check the settings for execution macro job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The suspend macro job is not set. | Setting error | Check the settings for suspend macro job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | An attempt was made to start the job that could not be started by the macro instruction. | Setting error | Check the settings for macro job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | An error occurred in the operation process of job call stack when the execution of macro instruction was cancelled. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Incorrect macro number | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4608: WRONG EXECUTION OF GETARG INST

An error occurred at GETARG instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The job argument is not set. | Setting error | Check the settings for jobs. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | No number of the specified job argument | Setting error | Check the settings for jobs. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The data types of job argument disagreed. | Setting error | Check the settings for jobs. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4609: MEMOPLAY ERROR

An error occurred at memory play execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | The memory play file was being used in another system. | Setting error | Check the setting of the used memory play file number. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The control group in the memory play file did not agree with the control group of execution job. | Setting error | Check the control group setting of the used memory play file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | An attempt was made to clear the memory play file by a CLEAR instruction before having executed a MEMOF instruction. | Setting error | Execute the MEMOF instruction, and then execute the CLEAR instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4610: MEMOPLAY SAMPLING ERROR

An error occurred at memory play execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Failed to read the memory play sampling data. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Failed to write the memory play sampling data. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Failed to seek the memory play sampling data. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Failed to read the memory play file. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Incorrect mode setting at memory play sampling | Setting error | Check the settings for the memory play mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4610: MEMOPLAY SAMPLING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 6 | Incorrect designation of the control group at memory play sampling | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Designation of the control group in the memory play file did not agree with the designation of the control group at MEMON instruction execution (when the start point was specified). | Setting error | Check the number of the memory play file for use. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Designation of the control group in the memory play file did not agree with the designation of the control group at MEMON instruction execution (at initialization). | Setting error | Check the number of the memory play file for use. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | designation of the control group in the memory play file did not agree with the designation of the control group at MEMON instruction execution (at continue). | Setting error | Check the number of the memory play file for use. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | It started reproducing though it did not record. | Setting error | Record and then play. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | Correction amount to record is out of the allowable range. | Setting error | Correct the position of object workpieces so that the correction amount fall within allowable range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | The number of recorded correction-amount exceeded the limit. | Setting error | Correct the job so that the movement section of memory play object is shorter. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | Memoplay file Create error (REC) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4610: MEMOPLAY SAMPLING ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 14 | Memoplay debug error C_ BANK.func_ctrl (initial) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | Memoplay debug error C_ BANK.func_ctrl (continue) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | Memoplay debug error C_ BANK RT_BANK.func_ctrl (continue) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | Memoplay debug error MOVL, MOVC (continue) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | Memoplay debug error Same point, moving amount is zero (continue) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | Memoplay debug error Dividing number error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4611: OVER OPTON INST EXECUTION LIMIT

An error occurred when executing a OPTON instruction.
The number of times that the OPTON instruction was executed exceeded the limit value.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for the OPTON instruction. OPTON instruction can use only the function to five simultaneously. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4612: TSYNC ERROR

An error occurred at the execution of the TSYNC instruction.
The number of synchronizations (SNUM) specified by the TSYNC instruction disagreed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub code: the number of synchronizations of the first executed TSYNC | Setting error | Check the settings for the number of synchronizations of the TSYNC instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4613: SERVO SEALER GUN CONTROL ERROR

A control error occurred when servo sealer gun was being used.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The function designation parameter is not set. | Setting error | Check the settings for the function designation parameter. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | No sealer gun axis exists at the job for which the sealer gun control was attempted to be executed. | Setting error | Check the settings for the control-group of the job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | No robot axis exists at the job at which an attempt was made to execute sealer gun control. | Setting error | Check the settings for the control-group of the job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Incorrect designation of the control method for sealer gun control | Setting error | Set either "1" or "2" for PRM1 control method designation of the OPTON instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Incorrect designation of the control method for sealer gun control | Setting error | If "1" is set for PRM1 of the OPTON instruction, set the PRM2 needle position designation to a value between 0 and 100. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Incorrect designation of the sealing width for sealer gun control | Setting error | If "2" is set for PRM1 of the OPTON instruction, set PRM2 sealing width designation to a value between 0 and 30. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4614: UNDEFINED SEALERGUN COND FILE

The servo sealer gun condition file is not set.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for servo sealer gun condition file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4615: I/O AXIS OPERATING

I/O axis motion could not be performed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An attempt was made to command a job whose control group was in I/O axis motion. | Setting error | Check the following settings.<br>• Does not the I/O axis motion executed for the control group that executing the job?<br>• Does not the job executed for the control group that operating by the I/O axis motion?<br>The control group where the I/O axis is operating cannot execute the job. Moreover, the I/O axis motion cannot perform for the control group where the job is executing. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4616: AXIS SHIFT ERROR

An internal control error occurred when shifting the axis.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The file could not be switched because of incorrect start point designation. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The control group with which the axis shifting is performed disagrees with the control group set for the axis shifting function in the calibration file. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The calibration file number for axis shifting function is out of the applicable range. | Setting error | Correct the settings for the OPTON instruction tag so that value of the file number specification is 1 to 32. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4617: S/U IMPOSSIBLE MOVE (L/R POS)

For the CSL15D manipulator, SU-axes cannot be operated in the position of the present L- and R-axes.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | For the CSL15D manipulator, the motion speed of S- and U-axes exceeded the upper limit. | Setting error | Check the following settings.<br>• Reduce the teaching speed of S- and U-axes.<br>• Teach the positions of L- and R-axes again so that S- and U-axes can move. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4617: S/U IMPOSSIBLE MOVE (L/R POS) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | For the CSL15D manipulator, S- and U-axes were going to move regardless of the limit speed "0" when the positions of L- and R-axes exceeded the upper limit. | Setting error | Teach the positions of L- and R-axes again so that S- and U-axes can move. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4618: SHIFT INST EXECUTE ERROR

An internal control error occurred at execution of the SHIFT instruction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | For the tool shift with Euler angle plus or minus90 degrees, the shift value for axes other than Y-axis is set. | Setting error | Check if the shift value is setting for Y-axis only. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4619: UNDEFINED JOB ENTRY TABLE

An error occurred in job registration table.
The job registration table is not set.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Designated registration number | Setting error | Check the settings for the job registration table. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4620: ARM (TOOL) INTERFERENCE

Parts and tool of manipulators were about to interfere with each other.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Group(Interfering) &Axis(Interfering)&Group (Interfered)&Axis(Interfered) | Setting error | Check the following settings.<br>• Change the teaching so that the manipulators specified by sub code will not interfere with each other.<br>• Check if the tool model (Tool interference file) of the manipulator specified by sub code is correctly set.<br>• Check if calibration between the manipulators are correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4621: WELD COMPLETE SIGNAL ERROR

An error occurred in welding completion signal.
The welding completion signal was ON when starting the spot welding instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Welder number | Setting error | Check the settings for welding completion signal. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4622: SELF-INTERFERENCE

Each part and tool of the manipulator was about to interfere with each other.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub code: Group&Axis (Interfering)&Axis(Interfered) | Setting error | Check the following settings.<br>• Change the teaching so that each part of the manipulator specified by sub code will not interfere.<br>• Check if the tool model (Tool interference file) displayed by sub code is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4623: WRONG EXECUTION OF GETPOS INST

An error occurred when executing a GETPOS instruction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An attempt was made to obtain the step that used a local position type variable. (The step with local position type variable cannot be fetched. Example: MOVJ LP000 VJ=25.00) | Setting error | Check the settings for the GETPOS instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An attempt was made to obtain the step that used a local position type variable. (The step with local position type variable cannot be fetched. Example: MOVJ LP000 VJ=25.00) | Setting error | Check the settings for the GETPOS instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The specified step did not exist. | Setting error | Check the settings for the GETPOS instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | An attempt was made to obtain the step without CTP(CTPP) tag. | Setting error | Check the settings for the GETPOS instruction. |

**4623: WRONG EXECUTION OF GETPOS INST (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | An attempt was made to obtain the step with CTP(CTPP) tag of variable specification. (The step with CPT(CTPP) tag of variable specification cannot be fetched.) | Setting error | Check the settings for the GETPOS instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4624: PLUG VOLUME SETTING ERROR

Incorrect setting of amount of fillings.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the setting for the amount of fillings. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4625: WRONG EXECUTION OF LOADDB INST

An error occurred when executing a LOADDB instruction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | No file | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | No directory | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | There was no directory entry after this point. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -1 | No file name | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -2 | File presence error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4625: WRONG EXECUTION OF LOADDB INST (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| -3 | Incorrect file name | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -4 | The disk is full. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -5 | The directory is full. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -6 | I/O error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -7 | Invalid handle | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -8 | Handle overflow | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -9 | File has already been opened. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -10 | File attribute error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -11 | Open mode error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -12 | The hardware disk with large capacity is used. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -14 | The door is open. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -15 | The disk is write-protected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4625: WRONG EXECUTION OF LOADDB INST (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| -30 | Card controller access error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -31 | No card | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -32 | Card drive information readout error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -33 | Partition table error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -34 | No drive number | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -35 | No specified partition number | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -36 | Cluster size error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -37 | Incorrect number of sectors | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -38 | Sector/byte error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -40 | Card not applicable for I/O | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -41 | Unsupported version | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -42 | The setting register did not exist. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4625: WRONG EXECUTION OF LOADDB INST (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| -43 | Card not applicable for ATA | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -44 | Double chain error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -45 | Media error (not fixed disk) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -50 | ATA command incomplete | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -51 | Sector read command error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -52 | Sector write command error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4626: IMPOSSIBLE S-AXIS MOV(IN SPHERE)

An error occurred at S-axis high-speed rotation.
The S-axis rotation radius was below the lower limit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for the limit distance for S-axis rotation center motion (S1CG067). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4627: GUN RECOGNITION SIGNAL OFF

The gun identification signal was not received.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Gun number | Setting error | Check the settings for the gun identification signal. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4628: WRITE VARIABLE NO. MULTI SETTING

An error in the variable number setting.
Duplicated usage of the written destination variable numbers.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Duplicated variable number | Setting error | Check the settings for the written destination variable numbers. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4629: GROUP CHANGE ERROR

An error occurred at group change execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The group change parameter was invalid. | Setting error | Validate the group change parameter. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The GRPCHG instruction was executed while the external axis motor was servo ON. | Setting error | Execute the GRPCHG instruction when the external axis motor was servo OFF. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The GRPCHG instruction was executed in unchuck status. | Setting error | Execute the GRPCHG instruction in chuck status. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The group identification signal was not received. | Setting error | Check the settings for group identification signal. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The specified control group number and the group identification number were unmatched. | Setting error | Check the settings for the specified control group number. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The encoder PG power supply was OFF when the GRPCHG was ON. | Setting error | Turn ON the encoder PG power supply when GRPCHG is ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The encoder PG power supply was ON when the GRPCHG was OFF. | Setting error | Turn OFF the encoder PG power supply when GRPCHG is OFF. |

**4629: GROUP CHANGE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The control group that corresponded to the received group identification signal did not exist. | Setting error | Check the settings for group identification signal. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4630: DUPLICATED GUN NUMBER

The gun numbers were overlapped when executing a SVSPOT instruction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: The overlapped gun number | Setting error | Check the settings for gun numbers. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4631: DEFECTIVE OPERATION VELOCITY

The manipulator motion speed failed to reach the specified work speed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group and axis | Setting error | Check if the speed is hold down by the speed override and special operations etc. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4635: CANNOT EXECUTE COMMON JOB

The called job could not be executed because the specified control group was shared with the called job.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: The related control-group | Setting error | Check the settings for control group specified by the CALL instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4636: THICKNESS ERROR

Thickness is exceed the allowable range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub code: Gun number | Setting error | Weld the spot by thickness within allowable range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4637: TRACK CHG WORK IN/NOT NOT FOUND

No workpiece presence/absence data at switching the synchronization section.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Conveyor characteristic file number | Setting error | Check the workpiece presence/absence and data settings for the synchronization section. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4638: TRACKING CHG WORK ID NOT FOUND

No workpiece type data at switching the synchronization section.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Conveyor characteristic file number | Setting error | Check the workpiece presence/absence and data settings for the synchronization section. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4639: SYMOVJ INST EXECUTE ERROR

SYMOVJ motion could not be performed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | The conveyor moving amount is not specified for the SYMOVJ motion. | Setting error | Set the conveyor moving amount for the SYMOVJ motion. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | An error occurred in the preparation process of the manipulator motion start position for the SYMOVJ motion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | An error occurred in the preparation process of the manipulator motion end position for the SYMOVJ motion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4640: WRONG EXECUTION OF PSTART INST

An error occurred at PSTART execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | No axis data of control group to be disconnected | Setting error | Check the settings for PSTART instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An attempt was made to disconnect a control group other than the occupation control group during prereading processing. | Setting error | Check the settings for PSTART instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | An attempt was made to disconnect a control group other than the occupation control group when executing a PSTART instruction. | Setting error | Check the settings for PSTART instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4641: CANNOT EXECUTE JOB(SEPARATE GRP)

The disconnected control group could not be moved.
The control group disconnected by itself was used for its own move instruction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: The disconnected control group used by a move instruction | Setting error | Correct the teaching so that the control group disconnected by itself is not to operate for move instruction of own system. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4644: SPOT WELDER I/F ERROR(ASW)

An error occurred between the controller and spot welder.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 8 | The controller could not send an instruction to the welder because the welder was busy in processing. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• DENGENSHA welding I/F board<br>• NADEX DeviceNet cable |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4644: SPOT WELDER I/F ERROR(ASW) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 9 | Welding current error at welding is completed successfully. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Abnormal code error at welding is completed successfully. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | Welding command process exceptional error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 102 | The specified welder number (system) could not be found. | Setting error | Confirm the specified welder number (system) and the setting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4645: NOT PERMIT FIXED-WEAV ON SWVON

Hover weaving could not be executed.
The hover weaving is disabled in coordinated motion.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the settings for jobs. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4648: FILE TRANSFER ERROR(ARITH)

An error occurred when transferring the file to the controller.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Motion range file transfer error | Setting error | Check if the motion range file is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Part motion range file transfer error | Setting error | Check if the part motion range is correctly set. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4649: PARTIAL MOTION RANGE INTRF.

The manipulator was about to interfere with the partial motion range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Interference control group number & interference axis & interference area number. | Setting error | Check the setting of the teaching position of the manipulator. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4650: TRQ CLEAR ERROR

Couldn't clear the Max Torque when performing TRQCLS.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4651: PALLETIZING EXECUTE ERROR

An error occurred at palletizing instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The setting of the palletizing condition configuration file is incomplete. | Setting error | Set the palletizing condition setting file to "Completed." |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Palletize completion universal output number range exceeds the limit. | Setting error | Change the palletize completion universal output signal number of the palletizing condition setting file in the user output signal point of contact number. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | During the palletize start instruction execution, the palletize start instruction is executed again (double execution). | Setting error | Delete the palletize start instruction in the palletize section. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The value of the palletizing number present value output register (or I variable) is more than the total number output register (or I variable). | Setting error | Check if the palletizing number of current position output register (or I variable) and total number of output register (or I variable) is not changed by another function. |

**4651: PALLETIZING EXECUTE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Palletize completion universal output signal is turned ON at palletize start instruction execution. | Setting error | Reset the palletize completion universal output signal. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Palletize end instruction is not registered. | Setting error | Register the palletizing end instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4652: TRQ MEASURE MODE SET ERR(SV)

Couldn't set to Constant speed torque measure mode when performing MEASON TRQ.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4653: TRQ MEASURE MODE CANCEL ERR(SV)

Couldn't release the Constant speed torque measure mode when performing MEASOF TRQ.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4654: WRONG EXECUTION OF SETREG INST

An error occurred at SETREG instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An attempt was made to change the value of the analog input register. | Setting error | The SETREGM instruction cannot change the analog input register values. Correct the setting of tag that specifies register number of SETREG instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | An attempt was made to change the value of the register currently used by TMR/CNT. | Setting error | The SETREGM instruction cannot change the register values used in TMR/CNT. Correct the setting of tag that specifies register number of SETREG instruction. |

**4654: WRONG EXECUTION OF SETREG INST (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 65535 | An attempt was made to change the value of the register currently used by TMR/CNT. | Setting error | Correct the setting of tag that specifies register number of SETREG instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4655: WRONG EXECUTION OF GETREG INST

An error occurred at GETREG instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 65535 | An attempt was made to acquire the value of the register not existing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4656: WRONG EXECUTION OF SETPRM INST

An error occurred at SETPRM instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| -1 | An attempt was made to change a parameter other than the cube-related or the analog output corresponding to speed-related parameter. | Setting error | The SETPRM instruction cannot change the parameter values other than the parameter related to the cube or the analog output corresponding to speed. Correct the setting of tag that specifies parameter number of SETPRM instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| -2 | The SETPRM instruction was executed while another system was in execution. | Setting error | The SETPRM instruction cannot execute while another system is operating. Correct the job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4657: WVADJ ERROR

An error occurred in the function of weaving groove width correction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The correction amplitude value did not fall in the limit range. | Setting error | Correct the settings for "groove width correction limit value" specified for S2C1259 and 1260. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4658: OVER SPEED LIMIT

The manipulator motion speed attempted to exceed the speed limit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The taught speed was going to exceed the limit during the multi arm simultaneous operation. | Setting error | Reduce the teaching speed of the step where the alarm occurred to the speed limit or less. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4659: TIP DRESS WATCH SET ERROR

An error occurred while setting the tip dress monitoring function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error occurred in the interface with the servo section during chip dress monitoring. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4660: TIP DRESS WATCH CANCEL ERROR

An error occurred when canceling the tip dress monitoring function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error occurred in the interface with the servo section when the chip dress monitoring was canceled. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4661: MEMORY ERROR(PRESS COND FILE)

An error was detected at memory check.
The memory for the press condition file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: File number | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the press characteristic file in maintenance mode, and then load the press characteristic file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |

**4661: MEMORY ERROR(PRESS COND FILE) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4662: PRESS SYNCHRONOUS ERROR

An error occurred during press synchronous control.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The press synchronous program could not be executed. | Setting error | Make sure that you are not accessing the same variable in the press synchronous program. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The target position could not be calculated in correcting the position. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The number of WAIT instructions used in the press synchronous program exceeds the maximum number. | Setting error | Reduce the WAIT instruction used in the press synchronous program. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Could not get WAIT instruction information. | Setting error | Make sure that there is a move instruction with ENC tag before WAIT instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Unable to set the correction data for the press synchronous control. | Setting error | The alarm occurs if the MOVE instruction except MOVJ with ENC tag is operated during Press synchronous control.<br>Reset the press synchronous control by the following operations to operate the MOVE instruction expect MOVJ with ENC tag.<br>• Confirm that press machine and robot must be stopped<br>• Make Specific Input PRESS SYNC OFF(#41010) ON<br>• Confirm that the Specific Output PRESS SYNC (#50683) is OFF. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4662: PRESS SYNCHRONOUS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 10 | Could not execute press synchronous program trajectory plan. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | Could not get press position. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | Update of press position was interrupted during press synchronization operation. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | "WAIT position operation general purpose output number output register number" is invalid. | Setting error | Please set a value other than 0 for the parameter "SE92". |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | The specified WAIT signal does not exist. | Setting error | Please check whether the specified WAIT signal exists. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000 | Can not communicate with ACP02 board. The response from the segment section and the handler section ceased. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP02 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000 | Can not communicate with ACP02 board. The response from the handler section ceased. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP02 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4662: PRESS SYNCHRONOUS ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3000 | Can not communicate with ACP02 board. The response from the segment section ceased. | ACP02 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ACP02 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4663: PRESS SYNC MOTION ERROR

An error(ARITH) occurred during press synchronous control.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | When correcting the position, the current value of the robot is outside the position range check. | Setting error | Check the current value of robot at position correction and SxE85: position correctable range (at position correction). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | At the start of synchronous operation, the current value of the robot is outside the position range check. | Setting error | Check the current value of the robot at the start of synchronous operation and SxE86: position correctable range (during synchronous operation). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Move instructions other than MOVJ are registered in the synchronization program. Or ENC 1 tag of MOVJ is not used. | Setting error | Remove moving instructions other than MOVJ from within the synchronization program. Also, please use ENC 1 tag for all MOVJ. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The move instruction in the synchronous program is one step or more than 361 steps. | Setting error | Correct the move instruction in the synchronous program from 2 to 360 steps. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | There are steps where the press position registered in MOVJ of press synchronization program is not in ascending order. | Setting error | Please set the press positions registered in MOVJ of press synchronization program in ascending order. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The number of robots in the press synchronization program is two or more. | Setting error | Please set the robot number of press synchronization program to one. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4663: PRESS SYNC MOTION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 7 | Press start position exceeded travel amount of 1 cycle(ADV). | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The press position registered in MOVJ of press synchronization program is as follows.<br>Press position < 0.00<br>Or<br>Press position >= 360.00 | Setting error | Please set the press position registered in MOVJ of Press Synchronization Program as follows.<br>0.00 <= Press position < 360.00 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | Press number error(ADV) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | DM_BANK error(ADV) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | ADV Bank Priority Error(ADV) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | Last Bank None Error(ADV) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | Alarm not occurred error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | Search failed error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | Bank priority error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | Motion command error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | NEXT_CBANK error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4663: PRESS SYNC MOTION ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 18 | Path creation incomplete error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | Current position creation error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | Position correction alarm not occurring error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | Position correction trajectory creation incomplete error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | Position correction press number error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 23 | Position correction search failure error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 24 | Position correction control group specification error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 25 | Shift data type error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | At the restart of synchronous operation, the current value of the robot is outside the position range check. | Setting error | Check the current value of the robot at restarting the synchronous operation and SxE 91: the synchronous operation restartable range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10000 | Number of steps displayed (ADV) | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20000 | Number of steps displayed | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4666: UNDEFINED WELD LENGTH CHECK FILE

The weld length check file is not set.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Complete the settings for the weld length check condition file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4667: DEFECTIVE GUN PRESSURE FILE

An error occurred in the gun pressure file.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Gun pressure file number | Setting error | Match the number of "END WAIT" in the gun pressure file, and the number of "Welding Conditions(WTM)" in the instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4668: MEMORY ERROR(PREVENTION FILE)

An error was detected at memory check.
The memory for the maintenance prevention file is damaged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the maintenance prevention file in maintenance mode, and then load the maintenance prevention file saved in the external memory device. |
| | | ACP01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ACP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the ACP01 board, and then insert the SD card which inserted original ACP01 board into the new ACP01 board. |
| | | AIF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4669: DETECT BRAKE SLIP

Brake slip was detected

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor.<br>3. If the alarm of "external brake" is occurred. , replace the external brake. |
| | | Setting error | 1. Reset the alarm.<br>2. Check the check torque value settings. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4670: INSUFFICIENT NUM OF SAMPLE DATA

The measurement section is too short.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | 1. Reset the alarm.<br>2. Lengthen the measurement section. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4671: SAMPLE BUFFER OVER FLOW

The measurement section is too long.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | 1. Reset the alarm.<br>2. Shorten the measurement section. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4672: BASIC SPEED UNREACHED

The motion speed could not exceeded the speed specified by BASICV.
The motion speed might have shifted to the speed reduction motion before BASICT has passed because BASICT was too long.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | 1. Reset the alarm.<br>2. Increase the speed specification value of a measurement job or set a small value for BASICV.<br>Or set a small value for BASICT, or lengthen the measurement section. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4673: MAX TRQ UNDETECTED

The measurement data contain the acceleration torque.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | 1. Reset the alarm.<br>2. Set a large value for the BASICT, and then check again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4674: SETE ERROR

An error occurred at SETE instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | An attempt was made to set tool for base/station-axis position-type variable. | Setting error | Check the settings for jobs. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4676: BROKEN FAN FUSE

The fuse (1FU/2FU) is blown in the APU01 unit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check if there is a ground fault or short circuit in the fan power line. |
| | | Fuse failure | (After cancellation of the short-circuit and ground fault) Replace the fuse. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check if there is a ground fault or short circuit in the fan power line. |
| | | Fuse failure | (After cancellation of the short-circuit and ground fault) Replace the fuse. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check if there is a ground fault or short circuit in the fan power line. |
| | | Fuse failure | (After cancellation of the short-circuit and ground fault) Replace the fuse. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4676: BROKEN FAN FUSE (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4 | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check if there is a ground fault or short circuit in the fan power line. |
| | | Fuse failure | (After cancellation of the short-circuit and ground fault) Replace the fuse. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check if there is a ground fault or short circuit in the fan power line. |
| | | Fuse failure | (After cancellation of the short-circuit and ground fault) Replace the fuse. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check if there is a ground fault or short circuit in the fan power line. |
| | | Fuse failure | (After cancellation of the short-circuit and ground fault) Replace the fuse. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check if there is a ground fault or short circuit in the fan power line. |
| | | Fuse failure | (After cancellation of the short-circuit and ground fault) Replace the fuse. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Sub Code 1to 8: Signifies the SDCA01 board No. in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check if there is a ground fault or short circuit in the fan power line. |
| | | Fuse failure | (After cancellation of the short-circuit and ground fault) Replace the fuse. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4677: IMPOSSIBLE LINEAR MOTION

Interpolation motion cannot perform from a current form (folded direction of arm) to the form at the target position. The move instruction other than MOVJ instruction, or the movement to the position variable by pressing FWD under the Cartesian jog operation cause error.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group and axis | Setting error | Check the following settings.<br>• If the sub code display is L- and U-axes, perform the teaching again to make the form (arm folded direction) of L- and U-axes same at start point and end point.<br>• If the sub code display is S- and L-axes, perform the teaching again to make the form (arm folded direction) of S- and L-axes same at start point and end point.<br>• Change the teaching move instruction to MOVJ instruction.<br>* Be careful to the peripheral interference since its movement changes. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4678: SPOT MONITOR DATA ERROR

Failed to read or write the database of spot weld history.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Internal control error in software | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, initialize the database of spot weld history.<br>3. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4680: F-SAFE COMMAND ERROR (ACP01)

It was not possible to send commands to the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The previous command was not completed.<br>Sub Code: Functional safety board station number. | Software operation error occurred | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4681: OVER SPEED(MainCPU)

The operation command which exceeds the designated max. speed was output.
It may occur when the robot operates near the singular point or when the robot is going to change its orientation widely with single control point.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group and axis | Setting error | Check the following settings.<br>• Reduce the speed of the step where the alarm occurred.<br>• Change the move instruction to joint interpolation (MOVJ).<br>* Be careful to the peripheral interference since its movement changes. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4684: INTERPOLATION INVALID

Operation to the position and posture in which the interpolation is impossible was occurred.
It may occur when the interpolation motion to the position in which the operation area is exceeded is performed, when the arm expands, or when the interpolation motion to the target position that cannot keep the position and posture is performed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group | Setting error | Check the following settings.<br>• At the Cartesian jog operation, switch to each-axes jog operations, and then change the orientation of manipulator.<br>• Change the teaching position and orientation. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4685: F-SAFE WRITE ERROR

An error occurred when recording the data in the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | An error occurred in the parameter write operation. | Data error | 1. Reset the alarm.<br>2. Try the write operation again. |
| | | ASF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | An error occurred in the file write operation. | Data error | 1. Reset the alarm.<br>2. Try the write operation again. |
| | | ASF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |

**4685: F-SAFE WRITE ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Write request has timed out. | Software operation error occurred | 1. Reset the alarm.<br>2. Try the write operation again. |
| | | ASF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4692: F-SAFE ENCODER BACKUP ERROR

The ASF01 board has detected a decrease in encoder battery.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Encoder battery failure | 1. Reset the alarm.<br>2. If AL4311 occurred simultaneously with this alarm, execute the trouble shooting for the AL4311. |
| | | ASF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4693: F-SAFE READBACK PROC. ERROR

The ASF01 board has detected a readback process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | Readback value of CPU1 and CPU2 mismatch. | Data error | 1. Reset the alarm.<br>2. Try the write operation again. |
| | | ASF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | Another readback request was issued to the readback process. (Parameter) | Software operation error occurred | 1. Reset the alarm.<br>2. Try the write operation again. |
| | | ASF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4693: F-SAFE READBACK PROC. ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | Another readback request was issued to the readback process. (File) | Software operation error occurred | 1. Reset the alarm.<br>2. Try the write operation again. |
| | | ASF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Incorrect file type. | Data error | 1. Reset the alarm.<br>2. Try the write operation again. |
| | | ASF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Incorrect file number. | Data error | 1. Reset the alarm.<br>2. Try the write operation again. |
| | | ASF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Incorrect write data. | Data error | 1. Reset the alarm.<br>2. Try the write operation again. |
| | | ASF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Process order error. | Software operation error occurred | 1. Reset the alarm.<br>2. Try the write operation again. |
| | | ASF01 board failure | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4696: TURN TABLE CALIBRATION ERROR

An error occurred at the conveyor coordinate creation for the turn-table.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | There was the same point in three points where the calibration had been executed. | Setting error | Correct the calibration position so that each point is different. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The three points where the calibration had been executed lie in a straight line. | Setting error | Check the calibration position so that the three taught points are not aligned in a straight line. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The three points where the calibration had been executed lie in a straight line. | Setting error | Check the calibration position so that the three taught points are not aligned in a straight line. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4697: OFFLINE ARM BEND POS CONVERT ERR

An error occurred when executing of bending correction job conversion.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Incorrect information of standard position data for offline arm bend position data conversion | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Incorrect user-coordinate number in the standard position data for offline arm bend position data conversion | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Incorrect reference-point data offline arm bend position data conversion | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | The position data could not be converted correctly/conversely for the standard position data at the offline arm bend position data conversion. | Setting error | The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Incorrect pulse incremental value for offline arm bend position data conversion | Setting error | The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range. |

**4697: OFFLINE ARM BEND POS CONVERT ERR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The position data could not be converted correctly for the pulse incremental value at the offline arm bend position data conversion. | Setting error | The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Incorrect Cartesian incremental value for offline arm bend position data conversion | Setting error | The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The position data could not be converted correctly for the Cartesian incremental value at the offline arm bend position data conversion. | Setting error | The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | The position conversion could not be done in the conversion data for offline arm bend position data conversion. | Setting error | The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Incorrect incremental value of angle for offline arm bend position data conversion | Setting error | The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | The position data could not be converted correctly for the incremental value of angle at the offline arm bend position data conversion. | Setting error | The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | The gravity moment for offline arm bend position data conversion could not be calculated. | Setting error | The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4697: OFFLINE ARM BEND POS CONVERT ERR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 13 | The position data could not be converted correctly for the revised conversion data at the offline arm bend position data conversion. | Setting error | The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4698: SHIFT VALUE MAKING ERROR

The shift value could not be set.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Reference position and target position occupation control-group error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Reference position and target position enabling control-group error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The position data type is not applicable. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Coordinated control-group error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | User coordinates number on the specified tag side error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4699: SYSTEM ERROR 1(RSC1)

An error was detected into RSC1 control task.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code<br>Internal control error in software | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4700: SYSTEM ERROR 2(RSC1)

An error was detected into RSC1 control task.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code<br>Internal control error in software | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4701: MEMORY ALLOCATION ERROR

Use memory is lacking and the area could not be obtained.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4703: F-SAFE OPERATION MODE ERROR

Cannot change the mode to PLAY under ENCODER BACK-UP ERROR in ASF01 system.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Data error | 1. Change the teach mode.<br>2. Reset the alarm, and then try again.<br>3. If the alarm occurs again, set to home position. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the unit to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4707: TIMING CONTROL ERROR

A error occurred in the timing control processing.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Control data error occurred at prereading. (Function the timing control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Control data error occurred. (Function the timing control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Index number of the target does not exist. (Function the timing control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4707: TIMING CONTROL ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 4 | Bank number of the target does not exist. (Function the timing control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Control data size over. (Function the timing control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Control index overflow. (Function the timing control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The control-group of surveillance does not exist. (Function the timing control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Instruction index overflow. (Function the timing control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | An error occurred when calculate a feedback position. (Function the timing control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | The control-group of the target which supervises a position does not exist. (Function the timing control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | Waiting time exceeded the limit. (Function the timing control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | watching information settings incomplete (Function the timing control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | Delay control impossible (Function the timing control) | Setting error | Please change the settings so as not to delay control. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | Execution control request settings incomplete (Function the timing control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4707: TIMING CONTROL ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 15 | Instruction that can not coexist with FPL/+DOUT/+PULSE was used | Setting error | 1. Check the following settings.<br>• FPL/DOUT/+PULSE and NWAIT can not be used at the same time for SYMOVL instruction. Correct the job.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 16 | Monitor error occurred.<br>(Function the timing control) | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | Executed step designation error | Setting error | 1. Check the following settings.<br>• Please review a job so that prereading processing of timing control is completed before an operation start of the control object step.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4708: MOTOR GUN AUTO TUNING INCOMPLETE

The SVSPOT command is executed before the GUN completes the setting of MOTOR GUN AUTO TUNING FILE.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Gun number | Setting error | Please complete the setting of MOTOR GUN AUTO TUNING FILE as the following operations.<br>1. choose [SPOT WELDING] ->[MOTOR GUN AUTO TUNING].<br>2. change the mode to PLAYBACK, then push [EXECUTE].<br>3. select [REGIST] , after the setting of MOTOR GUN AUTO TUNING FILE completes. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4709: WELD COMPLETE SIGNAL OFF

The spot welding wasn't completed normally.
The welding completion signal was not received from the timer conductor within the time limit after the gun open start signal was received.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Welder number | Setting error | 1. Reset the alarm, and then try again.<br>NOTE) When trying the job again, the manipulator returns to the previous welding point where the spot welding wasn't completed normally and welds again there.<br>2. If the alarm occurs again, check the following setting of the timer.<br>• Decrease the offset time of opening the gun. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4710: WELDER ERROR

Arc failure signal was input from the welder even though ARCON is not performed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | It will be automatically reset after 10 seconds. Then, start again. |
| | | Welding power failure | Turn the primary power of welding power OFF then back ON |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4711: 24V FUSE BLOWN(EW-BOARD)

24V fuse blown is detected in the AEW01

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Parts failure | Replace the fuse on the AEW board. |
| | | Board failure | Replace the AEW board of the corresponding station. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4712: 24V DETECT CIR ERR(AEW-BOARD)

An error was detected in 24V detection circuit of welding board (AEW01)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: AEW board number | Board failure | Replace the AEW board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4713: EXT 24V POWER ERR(EW-BOARD)

External power (24V) for welding board (AEW01) is OFF

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | Check if the 24V line that is input for AEW board is correctly wired. |
| | | Unit failure | Replace the unit that supplies with the external 24V power. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4714: 18V LINE BROKEN(EW-BOARD)

18V voltage error for welding board (AEW01) was detected

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: AEW board number | AEW01 board failure | Replace the AEW board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4715: CIP MESSAGE SERVER FUNC ERROR

An error occurred during CIP message communication

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Failed in the generation of the CIP server task. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Failed in the ID take of the CIP server task. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Failed in the generation of the class entry table. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Library initialize error. | Setting error | Check the following settings.<br>• EtherNet/IP(CPU Board) setting in maintenance mode<br>• LAN interface setting in maintenance mode<br>(In particular, the IP address, subnet mask, default gateway are set correctly, and DHCP is not used)<br>• IO module setting in maintenance mode<br>• IP address setting of devices connected to the network (the same IP address does not exist). |
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4715: CIP MESSAGE SERVER FUNC ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 5 | Failed in the generation of the access process. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Detect undefined error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | Detect sever function started processing. | Setting error | Check the following settings.<br>• EtherNet/IP(CPU Board) setting in maintenance mode<br>• LAN interface setting in maintenance mode<br>(In particular, the IP address, subnet mask, default gateway are set correctly, and DHCP is not used)<br>• IO module setting in maintenance mode<br>• IP address setting of devices connected to the network (the same IP address does not exist). |
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | Detect request error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 31 | Detect memory error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32 | Detect mail send error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 33 | Detect CIP answer error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 40 | Detect CIP server task mail receive error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 41 | Detect CIP server task request data error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 50 | Detect CIP server task send error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4716: BINARY ETHERNET SERVER FUNC ERR

An error occurred during high speed Ethernet sever communication

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | IP address duplicated. | IP address setting error | 1. Reset the alarm, and then try again.<br>2. The IP address is duplicated with the YRC1000 controller. Confirm the IP address of the communication target.<br>3. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | Detect message library initialize error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Failed in the generation of the RC connect management task. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Failed in the generation of the RC server task. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Failed in the generation of the file server task. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Failed in the generation of the command relay function server task. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1040 | Failed in the request take of the RC connect management task. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1041 | Failed in the endian conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1042 | Received data area overflow. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1043 | Failed in the request error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1044 | Failed in the request error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4716: BINARY ETHERNET SERVER FUNC ERR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1059 | In a RC connect management task, undefine error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1060 | Failed in the ID take of the RC server task. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1061 | Failed in the mail take of the RC server task. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1062 | In a RC server task, request mail data error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1063 | Answer data area overflow. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1064 | In a RC server task, receive data area overflow. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1079 | In a RC server task, undefined error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1080 | In a file server task, mail receive error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1081 | In a file server task, request mail data error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1082 | IP address duplicated. | IP address setting error | 1. Reset the alarm, and then try again.<br>2. The IP address is duplicated with the YRC1000 controller. Confirm the IP address of the communication target.<br>3. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | In a file server task, request error occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1083 | Failed in the endian conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4716: BINARY ETHERNET SERVER FUNC ERR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1084 | In a file server task, receive data area overflow. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2045 | In a RC connect management task , send error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2046 | Failed in the endian conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2065 | Detect RC server task send error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2066 | Failed in the endian conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2085 | Detect file server task send error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2086 | Failed in the endian conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2087 | In a file server task, answer data error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2088 | Failed in the endian conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2089 | In a file server task, answer data area overflow. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2098 | Failed in the status error occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4716: BINARY ETHERNET SERVER FUNC ERR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2099 | In a file server task, undefined error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3090 | In a file sever task, file close error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4718: BINARY ETHERNET CLIENT FUNC ERR

An error occurred during high speed Ethernet client communication

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Detect message library initialize error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Failed in the generation of the file function task. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Failed in the generation of the RC function task. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Detect I/F data error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | Detect undefined error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 110 | In a file task, undefined error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 510 | In a RC task, undefined error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 511 | In a RC task, request command error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 512 | In RC task, there is not the class entry of the request command. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4718: BINARY ETHERNET CLIENT FUNC ERR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 513 | In RC task, there is not the service entry of the request command. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1130 | In a high speed Ethernet task, request mail error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1131 | In a high speed Ethernet task, request command error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1132 | In a file task, mail receive error occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2140 | In a file task, file reading error occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2141 | In a file task, file writing error occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3150 | In a file task, request send error occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3151 | Failed in the endian conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3160 | In a file task, reply packet clear error occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3161 | Failed in the take of the reply packet data error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3162 | Failed in the endian conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3163 | In a file task, time out occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4718: BINARY ETHERNET CLIENT FUNC ERR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3164 | In a file task, receive data area overflow occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3165 | In a file task, received data unmatched. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3166 | In a file task, receive data size overflow occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3167 | In a file task, received data size set to zero occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3168 | In a file task, reply head error occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3169 | In a file task, reply status error occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5530 | In a RC task, interface request error occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5531 | In a RC task, interface answer error occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5532 | In a RC task, interface data area overflow occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5533 | In a RC task, interface data writing error occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6540 | In a RC task, time out occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6541 | Detect data error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4718: BINARY ETHERNET CLIENT FUNC ERR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 6542 | Detect exclusive process error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6543 | Detect time out. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6544 | Setting error | Setting error | Reset the alarm, and confirm whether the following parameter is set to zero.<br>• S2C541<br>• S2C542 |
| | Detect data error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6545 | Detect exclusive process error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7550 | In a RC task, request send error occurred. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7551 | Failed in the endian conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7560 | In a RC task, reply packet error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7561 | In a RC task, reply take error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7562 | Failed in the endian conversion. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7563 | Detect time out. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7564 | In a RC task, receive data area overflow detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4718: BINARY ETHERNET CLIENT FUNC ERR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 7565 | In a RC task, received data unmatched. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7566 | In a RC task, received data size over. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7567 | In a RC task, receive data size zero detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7568 | In a RC task, reply head error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7569 | In a RC task, reply status error detected. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4719: VIB SUPPRESSION FLT TIME OUT

vibration suppression filter did not complete within the specified time.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4721: IMPROPER TOOL FILE SETTING

The current tool file setting doesn't allow the manipulator to be operated.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group number & tool data & tool number. | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• Select a sub menu [TOOL] under main menu [ROBOT].<br>• Select the coordinate window of the number specified by sub code(tool number).<br>• Set "0" to the coordinate data specified by sub code (tool data). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4725: SETTM ERROR

An error occurred at SETTM instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | TM variable number exceeded the limit. | Setting error | Check the TM variable number used in the job, and then correct the job to fall within the range of TM variable number (0-59). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Same TM variable set up as "LOCAL" was used in different tasks. | Setting error | Correct the job not to use the same TM variable set up as "LOCAL" in different tasks. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The I/O signal number set up in the "SETTM SETUP FILE" cannot be carried out. | Setting error | Check the I/O signal number set in the "SETTM SETUP FILE", and then correct it within the effective setting range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4727: GETCVSFT ERROR

An error occurred at GETCVSFT instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Conveyor condition support file (WORK ID shift) is not set. | Setting error | Set "Use state" of conveyor condition support file(WORK ID shift) to "1: Use." |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Conveyor condition support file (WORK IN/OUT shift) is not set. | Setting error | Set "USED STATUS" of conveyor condition support file (WORK IN/OUT shift) to "1: Use." |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Conveyor condition file is not set. | Setting error | Set "USED STATUS" of conveyor condition file to "1: Use." |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Conveyor condition support file (Start shift) is not set. | Setting error | Set "USED STATUS" of conveyor condition support file(Start shift) to "1: Use." |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | "WORK ID signal" of the Conveyor condition support file (WORK ID shift) is not set | Setting error | Set "WORK ID signal" of Conveyor condition support file (WORK ID shift) |

**4727: GETCVSFT ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | "WORK IN/OUT signal" of the Conveyor condition support file (WORK IN/OUT shift)is not set | Setting error | Set "WORK IN/OUT signal" of Conveyor condition support file(WORK IN/OUT shift) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4728: CONVEYOR SYNCHRONIZATION (SHIFT FUNCTION) ERROR

An error occurred in conveyor synchronization (shift function) execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | "WORK ID signal" of the Conveyor condition support file (WORK ID shift)is not set | Setting error | Set "WORK ID signal" of Conveyor condition support file (WORK ID shift) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | "WORK IN/OUT signal" of the Conveyor condition support file (WORK IN/OUT shift)is not set | Setting error | Set "WORK IN/OUT signal" of Conveyor condition support file(WORK IN/OUT shift) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4729: ASCII IF CONTROL ERROR

An error occurred in the ASCII-IF control processing.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The file number is wrong.<br>An attempt was made to record again the file being recorded by IBGNSTART instruction. | Setting error | Set a number of the file in IBGNSTART instruction, so that the file being recorded does not repeat. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The number of robot in the JOB is wrong.<br>An attempt was made to record the file in the JOB including robots more than two. | Setting error | Correct the JOB, so that IBGNSTART instruction is used in the JOB of one robot. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4729: ASCII IF CONTROL ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3 | The number of external axis (STATION or BASE) in the JOB is wrong.<br>An attempt was made to record the file in the JOB including external axis(STATION or BASE) more than two. | Setting error | Correct the JOB, so that IBGNSTART instruction is used in the JOB of one external axis(STATION or BASE). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | IBGNEND instruction is not registered. | Setting error | Register IBGNEND instruction in the same job after the line where IBGNSTART instruction was registered. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | IBGNEND signal is not turned OFF before a specified time at the time of IBGNSTART instruction executed. | Setting error | Turn off IBGNEND signal by executing mpNoticeIBGNRecordRefEnd() in the MotoPlus application before IBGNSTART instruction is executed. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The setting of the playback file is not completed at the time of IBGNSTART PLAYBACK=ON instruction executed. | Setting error | Complete the setting of the playback file by executing mpNoticeIBGNPlaybackSetEnd() in the MotoPlus application before IBGNSTART PLAYBACK=ON instruction is executed. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Job name in the playback file is wrong at the time of IBGNSTART PLAYBACK=ON instruction executed. | Setting error | Set the job name in which IBGNSTART PLAYBACK=ON instruction is executed in the playback file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The setting of interpolation clock in the playback file is wrong at the time of IBGNSTART PLAYBACK=ON instruction executed. | Setting error | Set the interpolation clock acquired in the record file in the playback file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | The start/end step number in the playback file is wrong at the time of IBGNSTART PLAYBACK=ON instruction executed. | Setting error | Set the start/end step number of the job in which the record file was made in the playback file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4729: ASCII IF CONTROL ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 10 | IBGNSTART PLAYBACK=ON instruction was executed in a forward direction, before a robot arrives at the start step of the playback file in a backward direction. | Setting error | Execute IBGNSTART PLAYBACK=ON instruction in a forward direction, after a robot arrives at the start step of the playback file in a backward direction, when IBGNSTART PLAYBACK=ON instruction was executed in a backward direction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | An error occurred when IBGNSTART PLAYBACK=ON instruction was executed in a backward direction. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4730: CANNOT EXECUTE BRAKE SLIP DETECT

Brake slip detection could not be executed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Brake slip detection was commanded to be executed while another optional function was in execution. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If another optional function was commanded to be executed, cannot execute brake slip detection. Correct the job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Brake slip detection could not be executed in the specified axis. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Holding torque data which is calculated by the brake slip detection is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Detection torque data which is calculated by the brake slip detection is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | The torque value for the brake slip detection device is not set. | Software operation error occurred | 1. Reset the alarm.<br>2. Check the check torque value settings. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Holding torque data which is calculated by the brake slip detection exceeds the limit. | Software operation error occurred | 1. Reset the alarm.<br>2. Check the check torque value settings. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4730: CANNOT EXECUTE BRAKE SLIP DETECT (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 7 | The parameter of the pulse operation exceeds the limit. | Software operation error occurred | 1. Reset the alarm.<br>2. Check the following settings.<br>• Pulse operation (S1CxG940 to 949) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | The parameter of the error detection value parameter is incorrect. | Software operation error occurred | 1. Reset the alarm.<br>2. Check the following settings.<br>• Error detection value (S1CxG950 to 959) |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4733: WRIST MOTION ERROR (SINGULAR POINT)

The wrist axis was about to enter singular area.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An attempt was made to pass the B-axis zero degree position (singular area). | Setting error | Check the teaching position of the job so that the manipulator does not pass the B-axis zero degree position (singular area). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4734: FIGURE CONVERSION IMPOSSIBLE

Cannot convert to the specified figure.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The setting of the form data for Flip/No Flip is not "B-axis Angle. | Setting error | Set "1" to "S2C658: Type data detail settings". |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4735: SENSOR-LESS LEARNING CTRL ERROR

An error occurred in learning control.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Learning control table setting error. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If another optional function was commanded to be executed, cannot execute brake slip detection. Correct the job. |
| 2 | Learning control table ID is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4735: SENSOR-LESS LEARNING CTRL ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3 | Multiple task execution error | Setting error | The Learning control cannot execute the same time by multiple tasks.<br>Correct the job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4736: USER GROUP IO ERROR

An error occurred in the user group I/O control processing.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Setting of "START" in the user group I/O setting file is 0. | Setting error | Set a value of 1-4096 at "START" in the user group I/O setting file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Setting of "LENGTH" in the user group I/O setting file is abnormal. | Setting error | Set a value of 1-32 at "LENGTH" in the user group I/O setting file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The number of I/O signals in the definition of the user group I/O is out of a range. | Setting error | Set "START" or "LENGTH" in the user group I/O setting file, so that the number of I/O signals in the definition of the user group I/O is within a range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | A number of the user group I/O is abnormal. | Setting error | Set a number of the user group I/O to 1-64 used in the JOB. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4737: MOTION RANGE LIMIT OVER

The manipulator exceeded its motion range limit.
Cause 1: When the instruction point is outside the motion range limit, this alarm occurs.
Cause 2: The special range of motion is the function from which the movement area expands with weight information setting of a tool file.
In case of the robot with the special range of motion, when the weight information on a tool file was changed to the setting the movement area reduces, after teaching the area which expanded, this alarm occurs.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group | Setting error | Check the following settings.<br>• Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is within the motion range.<br>1. Check the following setting in case of the robot with the special range of motion.<br>• Check the weight information in the tool file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4738: DEST MOTION RANGE LIMIT OVER

The manipulator exceeded its motion range limit in the motion target position.
Cause 1: When the instruction point is outside the motion range limit, this alarm occurs.
Cause 2: The special range of motion is the function from which the movement area expands with weight information setting of a tool file.
In case of the robot with the special range of motion, when the weight information on a tool file was changed to the setting the movement area reduces, after teaching the area which expanded, this alarm occurs.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group | Setting error | Check the following settings.<br>• Check the position setting for the step (move instruction) where the alarm occurred.<br>1. Check the following setting in case of the robot with the special range of motion.<br>• Check the weight information in the tool file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4739: USER ANALOG IO ERROR

An error occurred in the user analog I/O control processing.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Setting of "START" in the user analog I/O setting file is 0. | Setting error | Set a value of 1-4096 at "START" in the user analog I/O setting file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4739: USER ANALOG IO ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2 | The number of I/O signals in the definition of the user analog I/O is out of a range. | Setting error | Set "START" or "LENGTH" in the user analog I/O setting file, so that the number of I/O signals in the definition of the user analog I/O is within a range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The number of the user analog I/O setting file is abnormal. | Setting error | Set the number of the user analog I/O setting file to 1-16 used in the JOB. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4740: M-SAF OVERRUN DETECT

Overrun signal is detected in the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Overrun limit switch control group that is displayed in the sub code has tripped. | Overrun limit switch released | 1. Reset the alarm.<br>2. If the alarm occurs again, overrun limit switch is released. Select "OVERRUN&SHOCK SENSOR" under sub menu "ROBOT" to reset the limit switch. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Check the electrical connection of slack and cable of connection between the control group in whom the overrun limit switch operated, IM-YE250/5-80P terminal board or IM-YE250/5-80P terminal board and ASF01 board (CN204,206), and a connector.<br>• Check the connection and inserting state of the following manipulator cables (Between Manipulator and YRC1000) and connectors. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the control group on which the alarm occurred. |
| | | Overrun limit switch failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the limit switch or an equivalent switch. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4741: M-SAF PPESP SIG. ERROR

Emergency stop signal of PP is unmatched.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Emergency stop signal of programming pendant was unmatched longer than a certain time. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• ASF01 board - CN203 connector<br>• Replace the cable of the Programming Pendant.<br>• Check connectors of the connected outside devices of EMERGENCY STOP signal of programming pendant line. |
| | | Programming pendant failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the programming pendant. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the ASF01 board which is connected to the first SDCA01 board. |
| | | Fuse failure | [Controller for painting use (Explosion-proof programming pendant spec)]<br>1. Reset the alarm.<br>2. If the alarm occurs again, replace the fuse (FU10, FU11) in the painting module. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4742: M-SAF PBESP SIG. ERROR

Emergency stop signal of the panel box is unmatched.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Emergency stop signal of the panel box was unmatched for a certain time. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• ASF01 board - CN203 connector<br>• Emergency stop switch - ASF01-CN203 connector cable |
| | | Hardware failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the emergency stop switch of the panel box. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. In a system where a plurality of ASF01 boards are connected, replace the ASF01 board which is connected to the first SDCA01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4743: M-SAF EXESP SIG. ERROR

External emergency stop signal is unmatched.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | External emergency stop signal was unmatched for a certain time. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• EXTERNAL EMERGENCY STOP switch and IM-YE250/5-80P terminal board cable<br>• ASF01 board (CN206) - IM-YE250/5-80P terminal board cable<br>• Check connectors of the connected outside devices of EXTERNAL EMERGENCY STOP signal line. |
| | | Hardware failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the external emergency stop switch. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. In a system where a plurality of ASF01 boards are connected, replace the ASF01 board which is connected to the first SDCA01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4744: M-SAF PP ENABLE SW SIG. ERROR

The enable switch signal of Programming Pendant is unmatched.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The enable switch signal of Programming Pendant was unmatched for a certain time. | Programing pendant illegal operation | 1. Reset the alarm.<br>2. There are two contact points for an enable switch, and only one point may be turned on by how to squeeze it or when putting it on the place where it is not a plane such as on the knee etc.<br>Check how to squeeze or put the programming pendant on flat. |
| | | Programming pendant failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the programming pendant. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the programming pendant. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. In a system where a plurality of ASF01 boards are connected, replace the ASF01 board which is connected to the first SDCA01 board. |

**4744: M-SAF PP ENABLE SW SIG. ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Fuse failure | [Controller for painting use (Explosion-proof programming pendant spec)]<br>1. Reset the alarm.<br>2. If the alarm occurs again, replace the fuse (FU14, FU15) in the painting module. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4745: M-SAF EX ENABLE SW SIG. ERROR

External Enable signal is unmatched.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | External Enable signal was unmatched for a certain time. | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the ON_ ENABLE signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4746: M-SAF SAFETY FENCE SIG. ERROR

Safety fence signal is unmatched.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Safety fence signal is unmatched for a certain time. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SAFETY FENCE switch and IM-YE250/5-80P terminal board cable<br>• ASF01(CN206)-IM-YE250/5-80P terminal board cable<br>• Check connectors of the connected outside devices of SAFETY FENCE signal line. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. In a system where a plurality of ASF01 boards are connected, replace the ASF01 board which is connected to the first SDCA01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4747: M-SAF OVERRUN SIG. ERROR

Overrun signal unmatch is detected by ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>1:OT1<br>2:OT2<br>3:OT3<br>4:OT4 | Overrun limit switch released | 1. Reset the alarm.<br>2. If the alarm occurs again, overrun limit switch is released. Select "OVERRUN&SHOCK SENSOR" under sub menu "ROBOT" to reset the limit switch. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, please insert, and conduction state of the cable and connector of the control group to which the overrun limit switch has tripped. |
| | | Overrun limit switch failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the limit switch or an equivalent switch. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the OT signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4748: M-SAF ON_ENABLE SIG. ERROR

ON_ENABLE signal unmatch is detected by ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>1:ON_ENABLE1<br>2:ON_ENABLE2<br>3:ON_ENABLE3<br>4:ON_ENABLE4 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• ON_ENABLE switch and IM-YE250/5-80P terminal board cable<br>• ASF01(CN206) - IM-YE250/5-80P terminal board cable |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the ON_ ENABLE signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4749: M-SAF FULL SPEED SIG. ERROR

Full speed test signal is unmatched.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Full speed test signal was unmatched for a certain time. | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4750: M-SAF GENERAL INPUT SIG. ERROR

General input signal unmatch is detected by ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>1:GSIN1<br>2:GSIN2 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Connected outside devices of GSIN signal line and IM-YE250/5-80P terminal board.<br>• ASF01 - IM-YE250/5-80P terminal board cable.<br>• Check connectors of the connected outside devices of GSIN signal line. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the GSIN signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4751: M-SAF GENERAL INPUT SIG. ERROR2

Unmatch of general safety input signal of function safety is detected by ASF02 board, ASU03 unit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>D01:XIN01<br>D02:XIN02<br>D03:XIN03<br>D04:XIN04<br>D05:XIN05<br>D06:XIN06<br>D07:XIN07<br>D08:XIN08<br>D09:XIN09<br>D10:XIN10<br>D11:XIN11<br>D12:XIN12<br>D13:XIN13<br>D14:XIN14<br>D15:XIN15<br>D16:XIN16 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Connected outside devices of XIN01-16 signal line and IM-YE250/5-80P terminal board<br>• ASF01-ASF02, ASF01 cable<br>• Check connectors of the connected outside devices of XIN signal line. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ASF02 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF02 board.<br>In a system where a plurality of ASF02 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | ASU03 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASU03 unit.<br>In a system where a plurality of ASU03 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4752: M-SAF PPESP DIAG. ERROR

An error is detected by ASF01 board in self diagnosis process of ESP signal of Programming Pendant.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub code indicates the process that the software of CPU1 or CPU2 detected an error. | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the ASF01 board which is connected to the first SDCA01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4753: M-SAF PBESP DIAG. ERROR

An error is detected by ASF01 board in self diagnosis process of ESP signal of Panel Box.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub code indicates the process that the software of CPU1 or CPU2 detected an error. | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the ASF01 board which is connected to the first SDCA01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4754: M-SAF EXESP DIAG. ERROR

An error is detected by ASF01 board in self diagnosis process of external ESP signal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub code indicates the process that the software of CPU1 or CPU2 detected an error. | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the ASF01 board which is connected to the first SDCA01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4755: M-SAF PP ENABLE SW DIAG. ERROR

An error is detected by ASF01 board in self diagnosis process of ENABLE signal of Programming Pendant.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub code indicates the process that the software of CPU1 or CPU2 detected an error. | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the ASF01 board which is connected to the first SDCA01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4756: M-SAF EX ENABLE SW DIAG. ERROR

An error is detected by ASF01 board in self diagnosis process of external ENABLE signal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub code indicates the process that the software of CPU1 or CPU2 detected an error. | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the ASF01 board which is connected to the first SDCA01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4757: M-SAF SAFETY GUARD DIAG. ERROR

An error is detected by ASF01 board in self diagnosis process of safety guard signal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub code indicates the process that the software of CPU1 or CPU2 detected an error. | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the ASF01 board which is connected to the first SDCA01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4758: M-SAF OVERRUN DIAG. ERROR

An error is detected by ASF01 board in self diagnosis process of overrun signal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error is detected by ASF01 board.<br>The error is occurred in the signal that is inverted representation.<br>CPU1 1:OT1<br>CPU1 2:OT2<br>CPU1 3:OT3<br>CPU1 4:OT4<br>CPU2 1:OT1<br>CPU2 2:OT2<br>CPU2 3:OT3<br>CPU2 4:OT4 | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the overrun signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4759: M-SAF ON_ENABLE DIAG. ERROR

An error is detected by ASF01 board in self diagnosis process of ON_ENABLE signal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | An error is detected by ASF01 board.<br>The meaning of each sub code is as follows:<br>CPU1 1:ON_ENABLE1<br>CPU1 2:ON_ENABLE2<br>CPU1 3:ON_ENABLE3<br>CPU1 4:ON_ENABLE4<br>CPU2 1:ON_ENABLE1<br>CPU2 2:ON_ENABLE2<br>CPU2 3:ON_ENABLE3<br>CPU2 4:ON_ENABLE4 | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the ON_ENABLE signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4760: M-SAF FULL SPEED DIAG. ERROR

An error is detected by ASF01 board in self diagnosis process of full speed signal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub code indicates the process that the software of CPU1 or CPU2 detected an error. | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the ON_ENABLE signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4761: M-SAF GENERAL INPUT DIAG. ERROR

An error is detected by ASF01 board in self diagnosis process of general safety input signal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>CPU1 1:GSIN1<br>CPU1 2:GSIN2<br>CPU2 1:GSIN1<br>CPU2 2:GSIN2 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• IM-YE250/5-80P terminal board<br>• ASF01 - IM-YE250/5-80P terminal board cable<br>• Check connectors of the connected outside devices of GSIN signal line.<br>• Check that the connection destination of the duplicated signal is correct. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4762: M-SAF GENERAL INPUT DIAG. ERROR2

An error is detected by ASF01 board in self diagnosis process of function safety general safety input signal of ASF02 board, ASU03 unit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>D01:XIN01<br>D02:XIN02<br>D03:XIN03<br>D04:XIN04<br>D05:XIN05<br>D06:XIN06<br>D07:XIN07<br>D08:XIN08<br>D09:XIN09<br>D10:XIN10<br>D11:XIN11<br>D12:XIN12<br>D13:XIN13<br>D14:XIN14<br>D15:XIN15<br>D16:XIN16 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• IM-YE250/5-80P terminal board<br>• ASF02, ASU03 - IM-YE250/5-80P terminal board cable<br>• Check connectors of the connected outside devices of XIN signal line.<br>• Check that the connection destination of the duplicated signal is correct. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ASF02 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF02 board.<br>In a system where a plurality of ASF02 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |

**4762: M-SAF GENERAL INPUT DIAG. ERROR2 (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASU03 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASU03 unit.<br>In a system where a plurality of ASU03 units are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4763: M-SAF CONTACT FB DIAG. ERR(CPU1)

An feedback error of the output of contactors signal is detected by ASF01 board in diagnosis process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>1:KMMB1<br>2:KMMB2<br>3:KMMB3<br>4:KMMB4 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Cable continuity between ASF01 board and APU01 unit. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ASU03 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASU03 unit.<br>In a system where a plurality of ASU03 units are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4764: M-SAF STO FB DIAG. ERROR

An feedback error of the output of STO signal is detected by ASF01 board in diagnosis process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>CPU1 1:EDM1<br>CPU1 2:EDM2<br>CPU1 3:EDM3<br>CPU1 4:EDM4<br>CPU2 1:EDM1<br>CPU2 2:EDM2<br>CPU2 3:EDM3<br>CPU2 4:EDM4 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Cable continuity between ASF01 board and SDCA01 board. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board on which the alarm occurred. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board.<br>In a system where a plurality of SDCA01 boards are connected, replace the board on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4765: M-SAF BRAKE FB DIAG. ERROR

An feedback error of the output of brake signal is detected by ASF01 board in diagnosis process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board on which the alarm occurred. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board.<br>In a system where a plurality of SDCA01 boards are connected, replace the board, which is connected to the board on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4766: M-SAF CONTACT OFF FB DIAG. ERROR

An feedback error of the output of contactor control signal is detected by ASF01 board in diagnosis process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• APU01 unit-CN604<br>• Cable continuity between ASF01 board(CN205) and APU01 unit(CN604). |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board on which the alarm occurred. |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit.<br>In a system where a plurality of APU01 units are connected, replace the board, which is connected to the unit on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4767: M-SAF GENERAL OUT FB DIAG. ERROR

An feedback error of general safety output signal is detected by ASF01 board in diagnosis process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>CPU1 1:GSEDM1<br>CPU1 2:GSEDM2<br>CPU2 1:GSEDM1<br>CPU2 2:GSEDM2 | Setting error | This alarm can occur after the software update.<br>If feedback signals of GSOUTs are not necessary in the system, change settings about 'GSOUT Feedback SETTING' in SAFETY LOGICAL CIRCUIT SETTING on maintenance mode. |
| | | Setting error | If feedback signals of GSOUTs are necessary in the system, check safety logic circuits and signal status about GSOUTs and S_GSEDMs.<br>According to the system requirements, change the settings of safety logic circuits. |
| | | Connection failure | If feedback signals of GSOUTs are necessary in the system, check safety logic circuits and signal status about GSOUTs and S_GSEDMs.<br>If the S_GSEDMs signal status isn't changed by GSOUTs, check the connections, cables, and connectors between GSOUTs and S_GSEDMs. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4768: M-SAF GENERAL OUT FB DIAG. ERROR2

An feedback error of function safety general safety output signal is detected by ASF01 board in diagnosis process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>D01:XOUT01<br>D02:XOUT02<br>D03:XOUT03<br>D04:XOUT04<br>D05:XOUT05<br>D06:XOUT06<br>D07:XOUT07<br>D08:XOUT08<br>D09:XOUT09<br>D10:XOUT10<br>D11:XOUT11<br>D12:XOUT12<br>D13:XOUT13<br>D14:XOUT14<br>D15:XOUT15<br>D16:XOUT16 | Setting error | This alarm can occur after the software update.<br>If feedback signals of FSBOUTs(XOUTs) are not necessary in the system, change settings about 'XOUT Feedback SETTING' in SAFETY LOGICAL CIRCUIT SETTING on maintenance mode. |
| | | Setting error | If feedback signals of FSBOUTs(XOUTs) are necessary in the system, check safety logic circuits and signal status about FSBOUTs and S_XEDMs.<br>According to the system requirements, change the settings of safety logic circuits. |
| | | Connection failure | If feedback signals of FSBOUTs(XOUTs) are necessary in the system, check safety logic circuits and signal status about FSBOUTs and S_XEDMs.<br>If the S_XEDMs signal status isn't changed by FSBOUTs, check the connections, cables, and connectors between FSBOUTs and S_XEDMs. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• ASF02,ASU03 - IM-YE250/5-80P terminal board cable<br>• Check connectors of the connected outside devices of XEDM signal line. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ASF02 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF02 board.<br>In a system where a plurality of ASF02 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | ASU03 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASU03 unit.<br>In a system where a plurality of ASU03 units are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4769: M-SAF CONTACTOR DIAG. ERROR

An error is detected by CPU1 on ASF01 board in self diagnosis process of contactor output signal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>CPU1 1:SFRON1<br>CPU1 2:SFRON2<br>CPU1 3:SFRON3<br>CPU1 4:SFRON4<br>CPU2 1:SFRON1<br>CPU2 2:SFRON2<br>CPU2 3:SFRON3<br>CPU2 4:SFRON4 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Cable continuity between ASU03 unit and APU01 unit. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | ASU03 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASU03 unit.<br>In a system where a plurality of ASU03 units are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit.<br>In a system where a plurality of APU01 units are connected, replace the unit, which is connected to the unit on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4770: M-SAF STO DIAG. ERROR

An error is detected by ASF01 board in self diagnosis process of STO signal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>CPU1 1:STO1<br>CPU1 2:STO2<br>CPU1 3:STO3<br>CPU1 4:STO4<br>CPU2 1:STO1<br>CPU2 2:STO2<br>CPU2 3:STO3<br>CPU2 4:STO4 | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board.<br>In a system where a plurality of SDCA01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4771: M-SAF GENERAL OUTPUT DIAG. ERROR

An error is detected by ASF01 board in self diagnosis process of general safety output signal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>CPU1 1:GSOUT1<br>CPU1 2:GSOUT2<br>CPU2 1:GSOUT1<br>CPU2 2:GSOUT2 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Cable continuity between ASF01 board and IM-YE250/5-80P terminal board. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4772: M-SAF GENERAL OUTPUT DIAG. ERROR2

An error is detected by ASF02 board, ASU03 unit in self diagnosis process of function safety general safety output signal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>D01:XOUT01<br>D02:XOUT02<br>D03:XOUT03<br>D04:XOUT04<br>D05:XOUT05<br>D06:XOUT06<br>D07:XOUT07<br>D08:XOUT08<br>D09:XOUT09<br>D10:XOUT10<br>D11:XOUT11<br>D12:XOUT12<br>D13:XOUT13<br>D14:XOUT14<br>D15:XOUT15<br>D16:XOUT16 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Cable continuity between ASF02 board and ASU03 unit, IM-YE250/5-80P terminal board. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | ASF02 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF02 board.<br>In a system where a plurality of ASF02 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |

**4772: M-SAF GENERAL OUTPUT DIAG. ERROR2 (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASU03 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASU03 unit.<br>In a system where a plurality of ASU03 units are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4773: M-SAF CONTACT FB DIAG. ERR(CPU2)

An feedback error of the output of contactors signal is detected by ASF01 board in diagnosis process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>1:KMMB1<br>2:KMMB2<br>3:KMMB3<br>4:KMMB4 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Cable continuity between ASU03 unit and APU01 unit. |
| | | ASU03 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASU03 unit.<br>In a system where a plurality of ASU03 units are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4776: M-SAF YSF LOGIC FILE SIGNAL ERR

The undefined signal was detected in the safety logical circuit function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub-code indicates the circuit number that detected the error. | Setting error | Please display the screen of the "safety function" - "safety logical circuit", and check the value of a "signal", "logic", and a "timer."<br>When a value is inaccurate, please set up the right value and perform "writing." |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4778: 24V VOLTAGE ERROR(SERVO I/O)

ASF01 board detected an error of the 24V power supply for SERVO I/O( DIRECTIN ) signals.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors. Check the insertion, connection, Short circuit , ground or 24V power line (DIRECTIN signals) fault of the followings.<br>• IM-YE250/5-80P terminal board -61,62,70,71,77,78 : 24VAX<br>• Cable between ASF01 board and IM-YE250/5-80P terminal board. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4779: PointPLC CONTROL ERROR

An error occurred in PointPLC.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | When P-PLC instruction was executed, there was not PLCSTPON instruction or PLCSTPOF instruction. | Setting error | 1. Reset the alarm.<br>2. Check whether PLCSTPON instruction and PLCSTPOF instruction is registered. When unregistered, register PLCSTPON instruction and PLCSTPOF instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | PLCSTPON instruction or PLCSTPOF instruction is duplicated in the PointPLC program. | Setting error | 1. Reset the alarm.<br>2. delete duplicate PLCSTPON instruction or PLCSTPOF instruction |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | An attempt was made to execute an instruction that could not be executed in the PointPLC program. | Setting error | 1. Reset the alarm.<br>2. delete the instruction which cannot be executed in the PointPLC program. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | PointPLC Program could not be executed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4779: PointPLC CONTROL ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 5 | PointPLC Program could not be executed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | PointPLC Program execution result is err. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | PointPLC Program execution result is err. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | PointPLC Program execution result is err. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | PointPLC function is invalid. | Setting error | Enable PointPLC function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4780: F-SAFE AXIS RANGE LIMIT INTF

Each axis is trying to move outside the limits.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the file number, control group and axis in which the alarm occurred. | Setting error | Check the following settings.<br>• Check the axis range limit condition file that is indicated in the sub code is set correctly.<br>• Modify the teaching so as not to interfere limit range setting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4781: AXIS RANGE LIMIT INTF

Each axis is trying to move outside the limits. (detected in ACP01)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the file number, control group and axis in which the alarm occurred. | Setting error | Check the following settings.<br>• Check the axis range limit condition file that is indicated in the sub code is set correctly.<br>• Modify the teaching so as not to interfere limit range setting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4782: F-SAFE AXIS SPEED MONITOR ERROR

Each axis has moved beyond the limit speed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the file number, control group, axis and error type in which the alarm occurred. | Setting error | Check the following settings.<br>• Check the axis speed monitor condition file that is indicated in the sub code is set correctly.<br>• Modify the teaching so as not to over with limit speed setting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4783: F-SAFE ROBOT RANGE LIMIT INTF

Robot tried to interfere with the limited area.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the file number, control group and axis in which the alarm occurred. | Setting error | Check the following settings.<br>• Check robot range limit condition file that is indicated in the sub code is set correctly.<br>• Modify the teaching so as not to interfere limit area setting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4784: ROBOT RANGE LIMIT INTF

Robot tried to interfere with the limited area. (detected in ACP01)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the file number, control group and axis in which the alarm occurred. | Setting error | Check the following settings.<br>• Check the robot range limit condition file that is indicated in the sub code is set correctly.<br>• Modify the teaching so as not to interfere limit area setting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4785: F-SAFE SPEED LIMIT ERROR

Robot has moved beyond the limit speed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the file number, control group and error type in which the alarm occurred. | Setting error | Check the speed limit condition file that is indicated in the sub code is set correctly. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4786: F-SAFE TEACH SAFETY SPEED ERROR

Robot has moved beyond the teach mode safety speed (250mm/sec).

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the control group and error type in which the alarm occurred. | Setting error | Check the speed limit condition file that is indicated in the sub code is set correctly. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4787: F-SAFE ROBOT STOP MONITOR ERROR

Robot has moved, when the robot stop monitor is enabled.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the file number and control group in which the alarm occurred. | Setting error | Check the speed limit condition file that is indicated in the sub code is set correctly. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4788: F-SAFE STATION STOP MONITOR ERR

Station axis has moved, when the station stop monitor is enabled.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the file number, control group and axis in which the alarm occurred. | Setting error | Check the speed limit condition file that is indicated in the sub code is set correctly. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4789: F-SAFE TOOL CHANGE MONITOR ERR

Selection tool file number is anomaly.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the file number, control group and error type in which the alarm occurred.<br>Error type means:<br>1:All tool change monitoring condition files is invalid.<br>2:It detects a mismatch of monitoring tool number and the selection tool file number.<br>3:Multiple tool change monitoring condition files is enabled.<br>4:Monitoring tool model(tool interference file) is not set. | Setting error | Check the following settings.<br>• Check the tool change monitor condition file that is indicated in the sub code is set correctly.<br>• Check whether only one tool change monitor condition file enable.<br>• Please coincide the tool file number chosen as the robot of the control group displayed in subcode, and a tool change monitor condition file.<br>• Check that the tool model(tool interference file) is set correctly. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4790: F-SAFE TOOL ANGL MONITOR ERR

Selection tool angle is anomaly.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the file number and control group in which the alarm occurred. | Setting error | Check the following settings.<br>• Check the tool angle monitor condition file that is indicated in the sub code is set correctly.<br>• Modify the teaching so as not to over limit angle setting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4791: F-SAFE AXIS STOP MONITOR ERROR

Each axis has moved, when the axis stop monitor is enabled.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the file number, control group and axis in which the alarm occurred. | Setting error | Check the following settings.<br>• Check the axis speed monitor condition file that is indicated in the sub code is set correctly.<br>• Modify the teaching so as not to over with limit speed setting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4792: TOOL ANGL MONITOR ERR

Selection tool angle is anomaly. (detected in ACP01)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the file number and control group in which the alarm occurred. | Setting error | Check the following settings.<br>• Check the tool angle monitor condition file that is indicated in the sub code is set correctly.<br>• Modify the teaching so as not to over limit angle setting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4793: F-SAFE SIGNAL SET ERR(GENERAL)

There is a problem with the configuration data of the general safety signal of safety monitoring conditions file.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code:<br>Code [X _ _ _ ] indicates the abnormal content.<br>1000:Input/output signal number in condition file is abnormal.<br>2000:General safety input signal that is not available is set in condition file.<br>3000:General safety output signal that is not available is set in condition file.<br>4000:Safety fieldbus input signal that is not available is set in condition file.<br>5000:Safety fieldbus output signal that is not available is set in condition file.<br>6000:File valid condition data is abnormal.<br>Code [ _ Y _ _ ] indicates the type of condition file abnormality occurs.<br>100:Axis range limit function<br>200:Axis speed monitor function<br>300:Speed limit function<br>400:Robot range limit function<br>500:Tool angle monitor function<br>600:Tool change monitor function<br>Code [ _ _ Z Z] indicates the number of condition file abnormality occurs. | Data error | 1. Check the configuration of condition file abnormality occurs.<br>2. Reset the alarm, and then try again. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4794: F-SAFE MONITOR EXECUTE TIME OVER

Execution time of the safety monitoring process has exceeded the specified value.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, reduce the number of robot range limit condition files validated at the same time. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4795: F-SAFE CANNOT OPERATE TEMP DSBL

Can not change the play mode, when function disable mode is ON in temporary,

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Change the teach mode.<br>2. Reset the alarm, and then try again. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4796: F-SAFE DATA CRC UNMATCH

The communication data error occurred between the ASF01 board and the ASF01 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the file kind in which the alarm occurred. | Data error | 1. Reset the alarm, and then try again.<br>2. Check whether the data which it is going to load is surely saved as data of functional safety. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | AIF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4797: F-SAFE RANGE COMBINATION ERR

The ASF01 board has detected a range combine function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4798: F-SAFE SIGNAL SET ERR(SFB)

There is a problem with the configuration data of the safety fieldbus signal of safety monitoring conditions file.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code:<br>Code [X _ _ _ ] indicates the abnormal content.<br>1000:Input/output signal number in conditionfile is abnormal.<br>4000:Safety fieldbus input signal that is not available is set in condition file.<br>5000:Safety fieldbus output signal that is not available is set in condition file.<br>6000:File valid condition data is abnormal.<br>Code [ _ Y _ _ ] indicates the type of condition file abnormality occurs.<br>100:Axis range limit function<br>200:Axis speed monitor function<br>300:Speed limit function<br>400:Robot range limit function<br>500:Tool angle monitor function<br>600:Tool change monitor function<br>Code [ _ _ Z Z] indicates the number of condition file abnormality occurs. | Data error | 1. Check the configuration of condition file abnormality occurs.<br>2. Reset the alarm, and then try again. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4799: F-SAFE SIGNAL SET ERR(LOGIC)

There is a problem with the configuration data of the safety logical circuit signal of safety monitoring conditions file.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code:<br>Code [X _ _ _ ] indicates the abnormal content.<br>1000:Input/output signal number in conditionfile is abnormal.<br>4000:Safety logical circuit input signal that is not available is set in condition file.<br>5000:Safety logical circuit output signal that is not available is set in condition file.<br>6000:File valid condition data is abnormal.<br>Code [ _ Y _ _ ] indicates the type of condition file abnormality occurs.<br>100:Axis range limit function<br>200:Axis speed monitor function<br>300:Speed limit function<br>400:Robot range limit function<br>500:Tool angle monitor function<br>600:Tool change monitor function<br>Code [ _ _ Z Z] indicates the number of condition file abnormality occurs. | Data error | 1. Check the configuration of condition file abnormality occurs.<br>2. Reset the alarm, and then try again. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4812: M-SAF FB DIAG. ERROR

An error of the feedback signal is detected by ASF01 board in feedback diagnosis.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4822: HARD WIRE BASE BLOCK ERROR

An feedback error of the output of STO signal is detected by SDCA01 board in diagnosis process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the control axis number which detected an error | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the ASF01-CN205 connectors. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4823: HARD WIRE BASE ENABLE ERROR

An feedback error of the output of STO signal is detected by SDCA01 board in diagnosis process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the control axis number which detected an error | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the ASF01-CN205 connectors. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4824: BASE BLOCK ERROR

Base block signal is detected by SDCA01 board in diagnosis process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the control axis number which detected an error | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the ASF01-CN205 connectors. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |

**4824: BASE BLOCK ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4825: BASE ENABLE ERROR

Base block signal is detected by SDCA01 board in diagnosis process.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the control axis number which detected an error | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN501<br>• ASF01-CN205<br>• Inverter board-CN571 |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4826: CONTACTOR ERROR(STO)

The YRC1000 system checks the status of the power-ON (APU01 unit) contactors. This alarm occurs if there is an inconsistency between the control output and contactor status.
Ex.)

- The signal from the contactor turned OFF while the servo was ON.
- The contactor turned ON while the servo was OFF for emergency stop.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the control axis number which detected an error | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit. Save the CMOS.BIN before replacing the unit to be safe. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• ASF01-CN205<br>• APU01-CN604 |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board. Save the CMOS.BIN before replacing the board to be safe. |

**4826: CONTACTOR ERROR(STO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4827: DRESSER SERVO POWER OFF

The servo power is not supplied to the servo dresser axis to be operated.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the control axis number which detected an error | The servo power is not supplied. | Turn ON the servo power for the servo dresser axis to be operated. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4828: TIP DRESS TIME OVER

The tip dress instruction was not completed within the specified time.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the control axis number which detected an error | Metal pieces getting into dresser blades | Check if metal pieces getting into dresser blades prevent the dresser from rotating. |
| | | Setting error | Check whether the "PRESS CONDITION" setting in TIP DRESS CONDITION file is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4842: MotoLogix (SYSTEM ERROR)

An error occurred in MotoLogix.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm and execute again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4846: MotoLogix (OPERATION ERROR)

MotoLogix command is not correct.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1000000 | Failed in Move command. Undefined Move command has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000001 | Failed in Move command. Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000002 | Failed in Move command. Move command is received while multi move motion after MultiMoveOff. | Setting error | 1. Reset the alarm.<br>2. Send move command after multi move motion completed. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000100 | Failed in MoveLinearAbsolute command. (Control group1) Undefined target position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000101 | Failed in MoveLinearAbsolute command. (Control group1) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000102 | Failed in MoveLinearAbsolute command. (Control group1) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000103 | Failed in MoveLinearAbsolute command. (Control group1) Undefined speed unit has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000104 | Failed in MoveLinearAbsolute command. (Control group1) Undefined rotational speed has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000105 | Failed in MoveLinearAbsolute command. (Control group1) The blend factor is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000106 | Failed in MoveLinearAbsolute command. (Control group1) Undefined blend type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000107 | Failed in MoveLinearAbsolute command. (Control group1) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000108 | Failed in MoveLinearAbsolute command. (Control group1) Incorrect number of position variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000109 | Failed in MoveLinearAbsolute command. (Control group1) Incorrect value of frame shift has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000110 | Failed in MoveLinearAbsolute command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000111 | Failed in MoveLinearAbsolute command. (Control group1) Incorrect parameter of +DOUT has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000112 | Failed in MoveLinearAbsolute command. (Control group1) The acceleration is out of range. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000113 | Failed in MoveLinearAbsolute command. (Control group1) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000114 | Failed in MoveLinearAbsolute command. (Control group1) The VMAX speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000115 | Failed in MoveLinearAbsolute command. (Control group1) Failed in search motion. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000116 | Failed in MoveLinearAbsolute command. (Control group1) The VMAX and search can not be specified to the same target. | Setting error | 1. Reset the alarm<br>2. Specify other than 2 to speedUnits or, Reset search by executing ResetSearch command.<br>3. Then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000117 | Failed in MoveLinearAbsolute command. (Control group1) Failed in multi move motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000118 | Failed in MoveLinearAbsolute command. (Control group1) Incorrect control group is specified for multi move motion. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000119 | Failed in MoveLinearAbsolute command. (Control group1) The VMAX and multi move cannot be used. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1000120 | Failed in MoveLinearAbsolute command. (Control group1) Multi move with searching is not allowed. | Setting error | 1. Reset the alarm<br>2. Execute ResetSearch and MultiMoveOff command.<br>3. Execute either SetSearch or MultiMoveOn command.<br>4. Execute MoveLinearAbsolute command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000200 | Failed in MoveLinearRelative command. (Control group1) Undefined target position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000201 | Failed in MoveLinearRelative command. (Control group1) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000202 | Failed in MoveLinearRelative command. (Control group1) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000203 | Failed in MoveLinearRelative command. (Control group1) Undefined speed unit has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000204 | Failed in MoveLinearRelative command. (Control group1) Undefined rotational speed has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000205 | Failed in MoveLinearRelative command. (Control group1) The blend factor is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000206 | Failed in MoveLinearRelative command. (Control group1) Undefined blend type has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000207 | Failed in MoveLinearRelative command. (Control group1) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000208 | Failed in MoveLinearRelative command. (Control group1) Incorrect number of position variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000209 | Failed in MoveLinearRelative command. (Control group1) Incorrect value of frame shift has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000210 | Failed in MoveLinearRelative command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000211 | Failed in MoveLinearRelative command. (Control group1) Incorrect parameter of +DOUT has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000212 | Failed in MoveLinearRelative command. (Control group1) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000213 | Failed in MoveLinearRelative command. (Control group1) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000214 | Failed in MoveLinearRelative command. (Control group1) The VMAX speed is out of range. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000215 | Failed in MoveLinearRelative command. (Control group1) Failed in search motion. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000216 | Failed in MoveLinearRelative command. (Control group1) The VMAX and search can not be specified to the same target. | Setting error | 1. Reset the alarm<br>2. Specify other than 2 to speedUnits or, Reset search by executing ResetSearch command.<br>3. Then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000217 | Failed in MoveLinearRelative command. (Control group1) Failed in multi move motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000218 | Failed in MoveLinearRelative command. (Control group1) Incorrect control group is specified for multi move motion. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000219 | Failed in MoveLinearRelative command. (Control group1) The VMAX and multi move cannot be used. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000220 | Failed in MoveLinearRelative command. (Control group1) Multi move with searching is not allowed. | Setting error | 1. Reset the alarm<br>2. Execute ResetSearch and MultiMoveOff command.<br>3. Execute either SetSearch or MultiMoveOn command.<br>4. Execute MoveLinearRelative command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000300 | Failed in MoveAxisAbsolute command. (Control group1) Undefined target position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1000301 | Failed in MoveAxisAbsolute command. (Control group1) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000302 | Failed in MoveAxisAbsolute command. (Control group1) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000303 | Failed in MoveAxisAbsolute command. (Control group1) The blend factor is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000304 | Failed in MoveAxisAbsolute command. (Control group1) Undefined blend type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000305 | Failed in MoveAxisAbsolute command. (Control group1) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000306 | Failed in MoveAxisAbsolute command. (Control group1) Incorrect number of position variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000307 | Failed in MoveAxisAbsolute command. (Control group1) Incorrect value of frame shift has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000308 | Failed in MoveAxisAbsolute command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1000309 | Failed in MoveAxisAbsolute command. (Control group1) Incorrect parameter of +DOUT has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000310 | Failed in MoveAxisAbsolute command. (Control group1) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000311 | Failed in MoveAxisAbsolute command. (Control group1) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000312 | Failed in MoveAxisAbsolute command. (Control group1) Failed in search motion. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000313 | Failed in MoveAxisAbsolute command. (Control group1) Search is not available for axis motion. | Setting error | Search can be used linear motion.<br>1. Reset the alarm.<br>2. Execute linear move command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000314 | Failed in MoveAxisAbsolute command. (Control group1) Failed in multi move motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000315 | Failed in MoveAxisAbsolute command. (Control group1) Incorrect control group is specified for multi move motion. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000316 | Failed in MoveAxisAbsolute command. (Control group1) Multi move motion is not available for axis motion. | Setting error | 1. Reset the alarm<br>2. Use linear move command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1000400 | Failed in MoveAxisRelative command. (Control group1) Undefined target position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000401 | Failed in MoveAxisRelative command. (Control group1) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000402 | Failed in MoveAxisRelative command. (Control group1) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000403 | Failed in MoveAxisRelative command. (Control group1) The blend factor is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000404 | Failed in MoveAxisRelative command. (Control group1) Undefined blend type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000405 | Failed in MoveAxisRelative command. (Control group1) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000406 | Failed in MoveAxisRelative command. (Control group1) Incorrect number of position variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000407 | Failed in MoveAxisRelative command. (Control group1) Incorrect value of frame shift has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000408 | Failed in MoveAxisRelative command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000409 | Failed in MoveAxisRelative command. (Control group1) Incorrect parameter of +DOUT has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000410 | Failed in MoveAxisRelative command. (Control group1) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000411 | Failed in MoveAxisRelative command. (Control group1) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000412 | Failed in MoveAxisRelative command. (Control group1) Failed in search motion. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000413 | Failed in MoveAxisRelative command. (Control group1) Search is not available for axis motion. | Setting error | Search can be used linear motion.<br>1. Reset the alarm.<br>2. Execute linear move command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000414 | Failed in MoveAxisRelative command. (Control group1) Failed in multi move motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000415 | Failed in MoveAxisRelative command. (Control group1) Incorrect control group is specified for multi move motion. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000416 | Failed in MoveAxisRelative command. (Control group1) Multi move motion is not available for axis motion. | Setting error | 1. Reset the alarm.<br>2. Execute linear move command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000500 | Failed in Jog command. Incorrect command index has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000501 | Failed in Jog command. Undefined Jog command has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000600 | Failed in JogAxes command. (Control group1) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000601 | Failed in JogAxes command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000602 | Failed in JogAxes command. Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000700 | Failed in JogTcp command. (Control group1) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000701 | Failed in JogTcp command. (Control group1) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1000702 | Failed in JogTcp command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000703 | Failed in JogTcp command. Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000800 | Failed in JogAxesToPoint command. (Control group1) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000801 | Failed in JogAxesToPoint command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000802 | Failed in JogAxesToPoint command. Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000900 | Failed in JogTcpToPoint command. (Control group1) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000901 | Failed in JogTcpToPoint command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1000902 | Failed in JogTcpToPoint command. Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001000 | Failed in MoveCircularOutBorder command. (Control group1) Undefined coordinate system has been set. | Setting error | 1. Reset the alarm<br>2. Set correct coordinate system and then execute command again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001001 | Failed in MoveCircularOutBorder command. (Control group1) The speed is out of range. | Setting error | 1. Reset the alarm<br>2. Set correct speed and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001002 | Failed in MoveCircularOutBorder command. (Control group1) Undefined speed unit has been set. | Setting error | 1. Reset the alarm<br>2. Set correct speed unit and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001003 | Failed in MoveCircularOutBorder command. (Control group1) The blend factor is out of range. | Setting error | 1. Reset the alarm<br>2. Set correct blend factor and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001004 | Failed in MoveCircularOutBorder command. (Control group1) Undefined blend type has been set. | Setting error | 1. Reset the alarm<br>2. Set correct blend type and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001005 | Failed in MoveCircularOutBorder command. (Control group1) Incorrect number of user coordinate has been set. | Setting error | 1. Reset the alarm<br>2. Set correctuser coordinate and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001006 | Failed in MoveCircularOutBorder command. (Control group1) Incorrect value of frame shift has been set. | Setting error | 1. Reset the alarm<br>2. Set correct value of frame shift and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001007 | Failed in MoveCircularOutBorder command. (Control group1) | Setting error | 1. Reset the alarm and then execute command again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001008 | Failed in MoveCircularOutBorder command. (Control group1) Incorrect parameter of +DOUT has been set. | Setting error | 1. Reset the alarm<br>2. Set correct +DOUT and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001009 | Failed in MoveCircularOutBorder command. (Control group1) The acceleration is out of range. | Setting error | 1. Reset the alarm<br>2. Set correct acceleration and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001010 | Failed in MoveCircularOutBorder command. (Control group1) The deceleration is out of range. | Setting error | 1. Reset the alarm<br>2. Set correct deceleration and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001011 | Failed in MoveCircularOutBorder command. (Control group1) Failed in search motion. | Setting error | 1. Reset the alarm<br>2. Reset search and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001012 | Failed in MoveCircularOutBorder command. (Control group1) Search function is not available for this command. | Setting error | 1. Reset the alarm<br>2. Reset search and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001013 | Failed in MoveCircularOutBorder command. (Control group1) Failed in multi move motion. | Setting error | 1. Reset the alarm and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001014 | Failed in MoveCircularOutBorder command. (Control group1) Incorrect control group is specified for multi move motion. | Setting error | 1. Reset the alarm<br>2. Set robot axis and then execute command again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1001015 | Failed in MoveCircularOutBorder command. (Control group1) Multi move with searching is not allowed. | Setting error | 1. Reset the alarm<br>2. Reset mutli move and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010100 | Failed in MoveLinearAbsolute command. (Control group2) Undefined target position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010101 | Failed in MoveLinearAbsolute command. (Control group2) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010102 | Failed in MoveLinearAbsolute command. (Control group2) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010103 | Failed in MoveLinearAbsolute command. (Control group2) Undefined speed unit has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010104 | Failed in MoveLinearAbsolute command. (Control group2) Undefined rotational speed has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010105 | Failed in MoveLinearAbsolute command. (Control group2) The blend factor is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1010106 | Failed in MoveLinearAbsolute command. (Control group2) Undefined blend type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010107 | Failed in MoveLinearAbsolute command. (Control group2) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010108 | Failed in MoveLinearAbsolute command. (Control group2) Incorrect number of position variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010109 | Failed in MoveLinearAbsolute command. (Control group2) Incorrect value of frame shift has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010110 | Failed in MoveLinearAbsolute command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010111 | Failed in MoveLinearAbsolute command. (Control group2) Incorrect parameter of +DOUT has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010112 | Failed in MoveLinearAbsolute command. (Control group2) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010113 | Failed in MoveLinearAbsolute command. (Control group2) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1010114 | Failed in MoveLinearAbsolute command. (Control group2) The VMAX speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010115 | Failed in MoveLinearAbsolute command. (Control group2) Failed in search motion. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010116 | Failed in MoveLinearAbsolute command. (Control group2) The VMAX and search can not be specified to the same target. | Setting error | 1. Reset the alarm<br>2. Specify other than 2 to speedUnits or, Reset search by executing ResetSearch command.<br>3. Then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010117 | Failed in MoveLinearAbsolute command. (Control group2) Failed in multi move motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010118 | Failed in MoveLinearAbsolute command. (Control group2) Incorrect control group is specified for multi move motion. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010119 | Failed in MoveLinearAbsolute command. (Control group2) The VMAX and multi move cannot be used. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010120 | Failed in MoveLinearAbsolute command. (Control group2) Multi move with searching is not allowed. | Setting error | 1. Reset the alarm<br>2. Execute ResetSearch and MultiMoveOff command.<br>3. Execute either SetSearch or MultiMoveOn command.<br>4. Execute MoveLinearAbsolute command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010200 | Failed in MoveLinearRelative command. (Control group2) Undefined target position type has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010201 | Failed in MoveLinearRelative command. (Control group2) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010202 | Failed in MoveLinearRelative command. (Control group2) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010203 | Failed in MoveLinearRelative command. (Control group2) Undefined speed unit has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010204 | Failed in MoveLinearRelative command. (Control group2) Undefined rotational speed has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010205 | Failed in MoveLinearRelative command. (Control group2) The blend factor is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010206 | Failed in MoveLinearRelative command. (Control group2) Undefined blend type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010207 | Failed in MoveLinearRelative command. (Control group2) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1010208 | Failed in MoveLinearRelative command. (Control group2) Incorrect number of position variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010209 | Failed in MoveLinearRelative command. (Control group2) Incorrect value of frame shift has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010210 | Failed in MoveLinearRelative command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010211 | Failed in MoveLinearRelative command. (Control group2) Incorrect parameter of +DOUT has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010212 | Failed in MoveLinearRelative command. (Control group2) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010213 | Failed in MoveLinearRelative command. (Control group2) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010214 | Failed in MoveLinearRelative command. (Control group2) The VMAX speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010215 | Failed in MoveLinearRelative command. (Control group2) Failed in search motion. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1010216 | Failed in MoveLinearRelative command. (Control group2) The VMAX and search can not be specified to the same target. | Setting error | 1. Reset the alarm<br>2. Specify other than 2 to speedUnits or, Reset search by executing ResetSearch command.<br>3. Then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010217 | Failed in MoveLinearRelative command. (Control group2) Failed in multi move motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010218 | Failed in MoveLinearRelative command. (Control group2) Incorrect control group is specified for multi move motion. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010219 | Failed in MoveLinearRelative command. (Control group2) The VMAX and multi move cannot be used. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010220 | Failed in MoveLinearRelative command. (Control group2) Multi move with searching is not allowed. | Setting error | 1. Reset the alarm<br>2. Execute ResetSearch and MultiMoveOff command.<br>3. Execute either SetSearch or MultiMoveOn command.<br>4. Execute MoveLinearRelative command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010300 | Failed in MoveAxisAbsolute command. (Control group2) Undefined target position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010301 | Failed in MoveAxisAbsolute command. (Control group2) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010302 | Failed in MoveAxisAbsolute command. (Control group2) The speed is out of range. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010303 | Failed in MoveAxisAbsolute command. (Control group2) The blend factor is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010304 | Failed in MoveAxisAbsolute command. (Control group2) Undefined blend type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010305 | Failed in MoveAxisAbsolute command. (Control group2) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010306 | Failed in MoveAxisAbsolute command. (Control group2) Incorrect number of position variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010307 | Failed in MoveAxisAbsolute command. (Control group2) Incorrect value of frame shift has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010308 | Failed in MoveAxisAbsolute command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010309 | Failed in MoveAxisAbsolute command. (Control group2) Incorrect parameter of +DOUT has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010310 | Failed in MoveAxisAbsolute command. (Control group2) The acceleration is out of range. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010311 | Failed in MoveAxisAbsolute command. (Control group2) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010312 | Failed in MoveAxisAbsolute command. (Control group2) Failed in search motion. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010313 | Failed in MoveAxisAbsolute command. (Control group2) Search is not available for axis motion. | Setting error | Search can be used linear motion.<br>1. Reset the alarm.<br>2. Execute linear move command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010314 | Failed in MoveAxisAbsolute command. (Control group2) Failed in multi move motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010315 | Failed in MoveAxisAbsolute command. (Control group2) Incorrect control group is specified for multi move motion. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010316 | Failed in MoveAxisAbsolute command. (Control group2) Multi move motion is not available for axis motion. | Setting error | 1. Reset the alarm<br>2. Use linear move command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010400 | Failed in MoveAxisRelative command. (Control group2) Undefined target position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010401 | Failed in MoveAxisRelative command. (Control group2) Undefined coordinate system has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010402 | Failed in MoveAxisRelative command. (Control group2) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010403 | Failed in MoveAxisRelative command. (Control group2) The blend factor is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010404 | Failed in MoveAxisRelative command. (Control group2) Undefined blend type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010405 | Failed in MoveAxisRelative command. (Control group2) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010406 | Failed in MoveAxisRelative command. (Control group2) Incorrect number of position variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010407 | Failed in MoveAxisRelative command. (Control group2) Incorrect value of frame shift has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010408 | Failed in MoveAxisRelative command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010409 | Failed in MoveAxisRelative command. (Control group2) Incorrect parameter of +DOUT has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010410 | Failed in MoveAxisRelative command. (Control group2) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010411 | Failed in MoveAxisRelative command. (Control group2) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010412 | Failed in MoveAxisRelative command. (Control group2) Failed in search motion. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010413 | Failed in MoveAxisRelative command. (Control group2) Search is not available for axis motion. | Setting error | Search can be used linear motion.<br>1. Reset the alarm.<br>2. Execute linear move command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010414 | Failed in MoveAxisRelative command. (Control group2) Failed in multi move motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010415 | Failed in MoveAxisRelative command. (Control group2) Incorrect control group is specified for multi move motion. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010416 | Failed in MoveAxisRelative command. (Control group2) Multi move motion is not available for axis motion. | Setting error | 1. Reset the alarm.<br>2. Execute linear move command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010600 | Failed in JogAxes command. (Control group2) The speed is out of range. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010601 | Failed in JogAxes command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010700 | Failed in JogTcp command. (Control group2)<br>The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010701 | Failed in JogTcp command. (Control group2)<br>Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010702 | Failed in JogTcp command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010800 | Failed in JogAxesToPoint command. (Control group2)<br>The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010801 | Failed in JogAxesToPoint command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010900 | Failed in JogTcpToPoint command. (Control group2)<br>The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1010901 | Failed in JogTcpToPoint command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1011000 | Failed in MoveCircularOutBorder command. (Control group2) Undefined coordinate system has been set. | Setting error | 1. Reset the alarm<br>2. Set correct coordinate system and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1011001 | Failed in MoveCircularOutBorder command. (Control group2) The speed is out of range. | Setting error | 1. Reset the alarm<br>2. Set correct speed and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1011002 | Failed in MoveCircularOutBorder command. (Control group2) Undefined speed unit has been set. | Setting error | 1. Reset the alarm<br>2. Set correct speed unit and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1011003 | Failed in MoveCircularOutBorder command. (Control group2) The blend factor is out of range. | Setting error | 1. Reset the alarm<br>2. Set correct blend factor and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1011004 | Failed in MoveCircularOutBorder command. (Control group2) Undefined blend type has been set. | Setting error | 1. Reset the alarm<br>2. Set correct blend type and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1011005 | Failed in MoveCircularOutBorder command. (Control group2) Incorrect number of user coordinate has been set. | Setting error | 1. Reset the alarm<br>2. Set correctuser coordinate and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1011006 | Failed in MoveCircularOutBorder command. (Control group2) Incorrect value of frame shift has been set. | Setting error | 1. Reset the alarm<br>2. Set correct value of frame shift and then execute command again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1011007 | Failed in MoveCircularOutBorder command. (Control group2) | Setting error | 1. Reset the alarm and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1011008 | Failed in MoveCircularOutBorder command. (Control group2) Incorrect parameter of +DOUT has been set. | Setting error | 1. Reset the alarm<br>2. Set correct +DOUT and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1011009 | Failed in MoveCircularOutBorder command. (Control group2) The acceleration is out of range. | Setting error | 1. Reset the alarm<br>2. Set correct acceleration and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1011010 | Failed in MoveCircularOutBorder command. (Control group2) The deceleration is out of range. | Setting error | 1. Reset the alarm<br>2. Set correct deceleration and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1011011 | Failed in MoveCircularOutBorder command. (Control group2) Failed in search motion. | Setting error | 1. Reset the alarm<br>2. Reset search and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1011012 | Failed in MoveCircularOutBorder command. (Control group2) Search function is not available for this command. | Setting error | 1. Reset the alarm<br>2. Reset search and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1011013 | Failed in MoveCircularOutBorder command. (Control group2) Failed in multi move motion. | Setting error | 1. Reset the alarm and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1011014 | Failed in MoveCircularOutBorder command. (Control group2) Incorrect control group is specified for multi move motion. | Setting error | 1. Reset the alarm<br>2. Set robot axis and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1011015 | Failed in MoveCircularOutBorder command. (Control group2) Multi move with searching is not allowed. | Setting error | 1. Reset the alarm<br>2. Reset mutli move and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020100 | Failed in MoveLinearAbsolute command. (Control group3) Undefined target position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020101 | Failed in MoveLinearAbsolute command. (Control group3) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020102 | Failed in MoveLinearAbsolute command. (Control group3) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020103 | Failed in MoveLinearAbsolute command. (Control group3) Undefined speed unit has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020104 | Failed in MoveLinearAbsolute command. (Control group3) Undefined rotational speed has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020105 | Failed in MoveLinearAbsolute command. (Control group3) The blend factor is out of range. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020106 | Failed in MoveLinearAbsolute command. (Control group3) Undefined blend type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020107 | Failed in MoveLinearAbsolute command. (Control group3) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020108 | Failed in MoveLinearAbsolute command. (Control group3) Incorrect number of position variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020109 | Failed in MoveLinearAbsolute command. (Control group3) Incorrect value of frame shift has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020110 | Failed in MoveLinearAbsolute command. (Control group3) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020111 | Failed in MoveLinearAbsolute command. (Control group3) Incorrect parameter of +DOUT has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020112 | Failed in MoveLinearAbsolute command. (Control group3) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020113 | Failed in MoveLinearAbsolute command. (Control group3) The deceleration is out of range. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020114 | Failed in MoveLinearAbsolute command. (Control group3) The VMAX speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020115 | Failed in MoveLinearAbsolute command. (Control group3) Failed in search motion. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020116 | Failed in MoveLinearAbsolute command. (Control group3) The VMAX and search can not be specified to the same target. | Setting error | 1. Reset the alarm<br>2. Specify other than 2 to speedUnits or, Reset search by executing ResetSearch command.<br>3. Then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020117 | Failed in MoveLinearAbsolute command. (Control group3) Failed in multi move motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020118 | Failed in MoveLinearAbsolute command. (Control group3) Incorrect control group is specified for multi move motion. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020119 | Failed in MoveLinearAbsolute command. (Control group3) The VMAX and multi move cannot be used. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020120 | Failed in MoveLinearAbsolute command. (Control group3) Multi move with searching is not allowed. | Setting error | 1. Reset the alarm<br>2. Execute ResetSearch and MultiMoveOff command.<br>3. Execute either SetSearch or MultiMoveOn command.<br>4. Execute MoveLinearAbsolute command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1020200 | Failed in MoveLinearRelative command. (Control group3) Undefined target position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020201 | Failed in MoveLinearRelative command. (Control group3) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020202 | Failed in MoveLinearRelative command. (Control group3) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020203 | Failed in MoveLinearRelative command. (Control group3) Undefined speed unit has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020204 | Failed in MoveLinearRelative command. (Control group3) Undefined rotational speed has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020205 | Failed in MoveLinearRelative command. (Control group3) The blend factor is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020206 | Failed in MoveLinearRelative command. (Control group3) Undefined blend type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020207 | Failed in MoveLinearRelative command. (Control group3) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020208 | Failed in MoveLinearRelative command. (Control group3) Incorrect number of position variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020209 | Failed in MoveLinearRelative command. (Control group3) Incorrect value of frame shift has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020210 | Failed in MoveLinearRelative command. (Control group3) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020211 | Failed in MoveLinearRelative command. (Control group3) Incorrect parameter of +DOUT has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020212 | Failed in MoveLinearRelative command. (Control group3) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020213 | Failed in MoveLinearRelative command. (Control group3) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020214 | Failed in MoveLinearRelative command. (Control group3) The VMAX speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020215 | Failed in MoveLinearRelative command. (Control group3) Failed in search motion. | Setting error | Reset the alarm, and then try again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020216 | Failed in MoveLinearRelative command. (Control group3) The VMAX and search can not be specified to the same target. | Setting error | 1. Reset the alarm<br>2. Specify other than 2 to speedUnits or, Reset search by executing ResetSearch command.<br>3. Then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020217 | Failed in MoveLinearRelative command. (Control group3) Failed in multi move motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020218 | Failed in MoveLinearRelative command. (Control group3) Incorrect control group is specified for multi move motion. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020219 | Failed in MoveLinearRelative command. (Control group3) The VMAX and multi move cannot be used. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020220 | Failed in MoveLinearRelative command. (Control group3) Multi move with searching is not allowed. | Setting error | 1. Reset the alarm<br>2. Execute ResetSearch and MultiMoveOff command.<br>3. Execute either SetSearch or MultiMoveOn command.<br>4. Execute MoveLinearRelative command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020300 | Failed in MoveAxisAbsolute command. (Control group3) Undefined target position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020301 | Failed in MoveAxisAbsolute command. (Control group3) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1020302 | Failed in MoveAxisAbsolute command. (Control group3) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020303 | Failed in MoveAxisAbsolute command. (Control group3) The blend factor is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020304 | Failed in MoveAxisAbsolute command. (Control group3) Undefined blend type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020305 | Failed in MoveAxisAbsolute command. (Control group3) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020306 | Failed in MoveAxisAbsolute command. (Control group3) Incorrect number of position variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020307 | Failed in MoveAxisAbsolute command. (Control group3) Incorrect value of frame shift has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020308 | Failed in MoveAxisAbsolute command. (Control group3) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020309 | Failed in MoveAxisAbsolute command. (Control group3) Incorrect parameter of +DOUT has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1020310 | Failed in MoveAxisAbsolute command. (Control group3) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020311 | Failed in MoveAxisAbsolute command. (Control group3) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020312 | Failed in MoveAxisAbsolute command. (Control group3) Failed in search motion. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020313 | Failed in MoveAxisAbsolute command. (Control group3) Search is not available for axis motion. | Setting error | Search can be used linear motion.<br>1. Reset the alarm.<br>2. Execute linear move command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020314 | Failed in MoveAxisAbsolute command. (Control group3) Failed in multi move motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020315 | Failed in MoveAxisAbsolute command. (Control group3) Incorrect control group is specified for multi move motion. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020316 | Failed in MoveAxisAbsolute command. (Control group3) Multi move motion is not available for axis motion. | Setting error | 1. Reset the alarm<br>2. Use linear move command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020400 | Failed in MoveAxisRelative command. (Control group3) Undefined target position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1020401 | Failed in MoveAxisRelative command. (Control group3) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020402 | Failed in MoveAxisRelative command. (Control group3) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020403 | Failed in MoveAxisRelative command. (Control group3) The blend factor is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020404 | Failed in MoveAxisRelative command. (Control group3) Undefined blend type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020405 | Failed in MoveAxisRelative command. (Control group3) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020406 | Failed in MoveAxisRelative command. (Control group3) Incorrect number of position variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020407 | Failed in MoveAxisRelative command. (Control group3) Incorrect value of frame shift has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020408 | Failed in MoveAxisRelative command. (Control group3) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1020409 | Failed in MoveAxisRelative command. (Control group3) Incorrect parameter of +DOUT has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020410 | Failed in MoveAxisRelative command. (Control group3) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020411 | Failed in MoveAxisRelative command. (Control group3) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020412 | Failed in MoveAxisRelative command. (Control group3) Failed in search motion. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020413 | Failed in MoveAxisRelative command. (Control group3) Search is not available for axis motion. | Setting error | Search can be used linear motion.<br>1. Reset the alarm.<br>2. Execute linear move command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020414 | Failed in MoveAxisRelative command. (Control group3) Failed in multi move motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020415 | Failed in MoveAxisRelative command. (Control group3) Incorrect control group is specified for multi move motion. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020416 | Failed in MoveAxisRelative command. (Control group3) Multi move motion is not available for axis motion. | Setting error | 1. Reset the alarm.<br>2. Execute linear move command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1020600 | Failed in JogAxes command. (Control group3) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020601 | Failed in JogAxes command. (Control group3) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020700 | Failed in JogTcp command. (Control group3) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020701 | Failed in JogTcp command. (Control group3) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020702 | Failed in JogTcp command. (Control group3) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020800 | Failed in JogAxesToPoint command. (Control group3) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020801 | Failed in JogAxesToPoint command. (Control group3) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020900 | Failed in JogTcpToPoint command. (Control group3) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1020901 | Failed in JogTcpToPoint command. (Control group3) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1021000 | Failed in MoveCircularOutBorder command. (Control group3) Undefined coordinate system has been set. | Setting error | 1. Reset the alarm<br>2. Set correct coordinate system and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1021001 | Failed in MoveCircularOutBorder command. (Control group3) The speed is out of range. | Setting error | 1. Reset the alarm<br>2. Set correct speed and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1021002 | Failed in MoveCircularOutBorder command. (Control group3) Undefined speed unit has been set. | Setting error | 1. Reset the alarm<br>2. Set correct speed unit and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1021003 | Failed in MoveCircularOutBorder command. (Control group3) The blend factor is out of range. | Setting error | 1. Reset the alarm<br>2. Set correct blend factor and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1021004 | Failed in MoveCircularOutBorder command. (Control group3) Undefined blend type has been set. | Setting error | 1. Reset the alarm<br>2. Set correct blend type and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1021005 | Failed in MoveCircularOutBorder command. (Control group3) Incorrect number of user coordinate has been set. | Setting error | 1. Reset the alarm<br>2. Set correctuser coordinate and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1021006 | Failed in MoveCircularOutBorder command. (Control group3) Incorrect value of frame shift has been set. | Setting error | 1. Reset the alarm<br>2. Set correct value of frame shift and then execute command again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1021007 | Failed in MoveCircularOutBorder command. (Control group3) | Setting error | 1. Reset the alarm and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1021008 | Failed in MoveCircularOutBorder command. (Control group3) Incorrect parameter of +DOUT has been set. | Setting error | 1. Reset the alarm<br>2. Set correct +DOUT and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1021009 | Failed in MoveCircularOutBorder command. (Control group3) The acceleration is out of range. | Setting error | 1. Reset the alarm<br>2. Set correct acceleration and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1021010 | Failed in MoveCircularOutBorder command. (Control group3) The deceleration is out of range. | Setting error | 1. Reset the alarm<br>2. Set correct deceleration and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1021011 | Failed in MoveCircularOutBorder command. (Control group3) Failed in search motion. | Setting error | 1. Reset the alarm<br>2. Reset search and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1021012 | Failed in MoveCircularOutBorder command. (Control group3) Search function is not available for this command. | Setting error | 1. Reset the alarm<br>2. Reset search and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1021013 | Failed in MoveCircularOutBorder command. (Control group3) Failed in multi move motion. | Setting error | 1. Reset the alarm and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1021014 | Failed in MoveCircularOutBorder command. (Control group3) Incorrect control group is specified for multi move motion. | Setting error | 1. Reset the alarm<br>2. Set robot axis and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1021015 | Failed in MoveCircularOutBorder command. (Control group3) Multi move with searching is not allowed. | Setting error | 1. Reset the alarm<br>2. Reset mutli move and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030100 | Failed in MoveLinearAbsolute command. (Control group4) Undefined target position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030101 | Failed in MoveLinearAbsolute command. (Control group4) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030102 | Failed in MoveLinearAbsolute command. (Control group4) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030103 | Failed in MoveLinearAbsolute command. (Control group4) Undefined speed unit has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030104 | Failed in MoveLinearAbsolute command. (Control group4) Undefined rotational speed has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030105 | Failed in MoveLinearAbsolute command. (Control group4) The blend factor is out of range. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030106 | Failed in MoveLinearAbsolute command. (Control group4) Undefined blend type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030107 | Failed in MoveLinearAbsolute command. (Control group4) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030108 | Failed in MoveLinearAbsolute command. (Control group4) Incorrect number of position variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030109 | Failed in MoveLinearAbsolute command. (Control group4) Incorrect value of frame shift has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030110 | Failed in MoveLinearAbsolute command. (Control group4) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030111 | Failed in MoveLinearAbsolute command. (Control group4) Incorrect parameter of +DOUT has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030112 | Failed in MoveLinearAbsolute command. (Control group4) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030113 | Failed in MoveLinearAbsolute command. (Control group4) The deceleration is out of range. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030114 | Failed in MoveLinearAbsolute command. (Control group4) The VMAX speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030115 | Failed in MoveLinearAbsolute command. (Control group4) Failed in search motion. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030116 | Failed in MoveLinearAbsolute command. (Control group4) The VMAX and search can not be specified to the same target. | Setting error | 1. Reset the alarm<br>2. Specify other than 2 to speedUnits or, Reset search by executing ResetSearch command.<br>3. Then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030117 | Failed in MoveLinearAbsolute command. (Control group4) Failed in multi move motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030118 | Failed in MoveLinearAbsolute command. (Control group4) Incorrect control group is specified for multi move motion. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030119 | Failed in MoveLinearAbsolute command. (Control group4) The VMAX and multi move cannot be used. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030120 | Failed in MoveLinearAbsolute command. (Control group4) Multi move with searching is not allowed. | Setting error | 1. Reset the alarm<br>2. Execute ResetSearch and MultiMoveOff command.<br>3. Execute either SetSearch or MultiMoveOn command.<br>4. Execute MoveLinearAbsolute command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1030200 | Failed in MoveLinearRelative command. (Control group4) Undefined target position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030201 | Failed in MoveLinearRelative command. (Control group4) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030202 | Failed in MoveLinearRelative command. (Control group4) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030203 | Failed in MoveLinearRelative command. (Control group4) Undefined speed unit has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030204 | Failed in MoveLinearRelative command. (Control group4) Undefined rotational speed has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030205 | Failed in MoveLinearRelative command. (Control group4) The blend factor is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030206 | Failed in MoveLinearRelative command. (Control group4) Undefined blend type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030207 | Failed in MoveLinearRelative command. (Control group4) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030208 | Failed in MoveLinearRelative command. (Control group4) Incorrect number of position variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030209 | Failed in MoveLinearRelative command. (Control group4) Incorrect value of frame shift has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030210 | Failed in MoveLinearRelative command. (Control group4) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030211 | Failed in MoveLinearRelative command. (Control group4) Incorrect parameter of +DOUT has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030212 | Failed in MoveLinearRelative command. (Control group4) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030213 | Failed in MoveLinearRelative command. (Control group4) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030214 | Failed in MoveLinearRelative command. (Control group4) The VMAX speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030215 | Failed in MoveLinearRelative command. (Control group4) Failed in search motion. | Setting error | Reset the alarm, and then try again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030216 | Failed in MoveLinearRelative command. (Control group4) The VMAX and search can not be specified to the same target. | Setting error | 1. Reset the alarm<br>2. Specify other than 2 to speedUnits or, Reset search by executing ResetSearch command.<br>3. Then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030217 | Failed in MoveLinearRelative command. (Control group4) Failed in multi move motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030218 | Failed in MoveLinearRelative command. (Control group4) Incorrect control group is specified for multi move motion. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030219 | Failed in MoveLinearRelative command. (Control group4) The VMAX and multi move cannot be used. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030220 | Failed in MoveLinearRelative command. (Control group4) Multi move with searching is not allowed. | Setting error | 1. Reset the alarm<br>2. Execute ResetSearch and MultiMoveOff command.<br>3. Execute either SetSearch or MultiMoveOn command.<br>4. Execute MoveLinearRelative command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030300 | Failed in MoveAxisAbsolute command. (Control group4) Undefined target position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030301 | Failed in MoveAxisAbsolute command. (Control group4) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1030302 | Failed in MoveAxisAbsolute command. (Control group4) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030303 | Failed in MoveAxisAbsolute command. (Control group4) The blend factor is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030304 | Failed in MoveAxisAbsolute command. (Control group4) Undefined blend type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030305 | Failed in MoveAxisAbsolute command. (Control group4) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030306 | Failed in MoveAxisAbsolute command. (Control group4) Incorrect number of position variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030307 | Failed in MoveAxisAbsolute command. (Control group4) Incorrect value of frame shift has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030308 | Failed in MoveAxisAbsolute command. (Control group4) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030309 | Failed in MoveAxisAbsolute command. (Control group4) Incorrect parameter of +DOUT has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1030310 | Failed in MoveAxisAbsolute command. (Control group4) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030311 | Failed in MoveAxisAbsolute command. (Control group4) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030312 | Failed in MoveAxisAbsolute command. (Control group4) Failed in search motion. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030313 | Failed in MoveAxisAbsolute command. (Control group4) Search is not available for axis motion. | Setting error | Search can be used linear motion.<br>1. Reset the alarm.<br>2. Execute linear move command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030314 | Failed in MoveAxisAbsolute command. (Control group4) Failed in multi move motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030315 | Failed in MoveAxisAbsolute command. (Control group4) Incorrect control group is specified for multi move motion. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030316 | Failed in MoveAxisAbsolute command. (Control group4) Multi move motion is not available for axis motion. | Setting error | 1. Reset the alarm<br>2. Use linear move command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030400 | Failed in MoveAxisRelative command. (Control group4) Undefined target position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1030401 | Failed in MoveAxisRelative command. (Control group4) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030402 | Failed in MoveAxisRelative command. (Control group4) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030403 | Failed in MoveAxisRelative command. (Control group4) The blend factor is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030404 | Failed in MoveAxisRelative command. (Control group4) Undefined blend type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030405 | Failed in MoveAxisRelative command. (Control group4) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030406 | Failed in MoveAxisRelative command. (Control group4) Incorrect number of position variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030407 | Failed in MoveAxisRelative command. (Control group4) Incorrect value of frame shift has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030408 | Failed in MoveAxisRelative command. (Control group4) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1030409 | Failed in MoveAxisRelative command. (Control group4) Incorrect parameter of +DOUT has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030410 | Failed in MoveAxisRelative command. (Control group4) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030411 | Failed in MoveAxisRelative command. (Control group4) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030412 | Failed in MoveAxisRelative command. (Control group4) Failed in search motion. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030413 | Failed in MoveAxisRelative command. (Control group4) Search is not available for axis motion. | Setting error | Search can be used linear motion.<br>1. Reset the alarm.<br>2. Execute linear move command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030414 | Failed in MoveAxisRelative command. (Control group4) Failed in multi move motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030415 | Failed in MoveAxisRelative command. (Control group4) Incorrect control group is specified for multi move motion. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030416 | Failed in MoveAxisRelative command. (Control group4) Multi move motion is not available for axis motion. | Setting error | 1. Reset the alarm.<br>2. Execute linear move command. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1030600 | Failed in JogAxes command. (Control group4) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030601 | Failed in JogAxes command. (Control group4) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030700 | Failed in JogTcp command. (Control group4) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030701 | Failed in JogTcp command. (Control group4) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030702 | Failed in JogTcp command. (Control group4) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030800 | Failed in JogAxesToPoint command. (Control group4) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030801 | Failed in JogAxesToPoint command. (Control group4) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030900 | Failed in JogTcpToPoint command. (Control group4) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1030901 | Failed in JogTcpToPoint command. (Control group4) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1031000 | Failed in MoveCircularOutBorder command. (Control group4) Undefined coordinate system has been set. | Setting error | 1. Reset the alarm<br>2. Set correct coordinate system and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1031001 | Failed in MoveCircularOutBorder command. (Control group4) The speed is out of range. | Setting error | 1. Reset the alarm<br>2. Set correct speed and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1031002 | Failed in MoveCircularOutBorder command. (Control group4) Undefined speed unit has been set. | Setting error | 1. Reset the alarm<br>2. Set correct speed unit and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1031003 | Failed in MoveCircularOutBorder command. (Control group4) The blend factor is out of range. | Setting error | 1. Reset the alarm<br>2. Set correct blend factor and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1031004 | Failed in MoveCircularOutBorder command. (Control group4) Undefined blend type has been set. | Setting error | 1. Reset the alarm<br>2. Set correct blend type and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1031005 | Failed in MoveCircularOutBorder command. (Control group4) Incorrect number of user coordinate has been set. | Setting error | 1. Reset the alarm<br>2. Set correctuser coordinate and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1031006 | Failed in MoveCircularOutBorder command. (Control group4) Incorrect value of frame shift has been set. | Setting error | 1. Reset the alarm<br>2. Set correct value of frame shift and then execute command again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1031007 | Failed in MoveCircularOutBorder command. (Control group4) | Setting error | 1. Reset the alarm and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1031008 | Failed in MoveCircularOutBorder command. (Control group4) Incorrect parameter of +DOUT has been set. | Setting error | 1. Reset the alarm<br>2. Set correct +DOUT and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1031009 | Failed in MoveCircularOutBorder command. (Control group4) The acceleration is out of range. | Setting error | 1. Reset the alarm<br>2. Set correct acceleration and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1031010 | Failed in MoveCircularOutBorder command. (Control group4) The deceleration is out of range. | Setting error | 1. Reset the alarm<br>2. Set correct deceleration and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1031011 | Failed in MoveCircularOutBorder command. (Control group4) Failed in search motion. | Setting error | 1. Reset the alarm<br>2. Reset search and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1031012 | Failed in MoveCircularOutBorder command. (Control group4) Search function is not available for this command. | Setting error | 1. Reset the alarm<br>2. Reset search and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1031013 | Failed in MoveCircularOutBorder command. (Control group4) Failed in multi move motion. | Setting error | 1. Reset the alarm and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1031014 | Failed in MoveCircularOutBorder command. (Control group4) Incorrect control group is specified for multi move motion. | Setting error | 1. Reset the alarm<br>2. Set robot axis and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1031015 | Failed in MoveCircularOutBorder command. (Control group4) Multi move with searching is not allowed. | Setting error | 1. Reset the alarm<br>2. Reset mutli move and then execute command again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000000 | Failed in Config command. Incorrect command index has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000001 | Failed in Config command. Undefined Config command has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000002 | Failed in Config command. The size of command buffer is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000100 | Failed in GetModuleInfo command. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000101 | Failed in GetModuleInfo command. The number of step is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000102 | Failed in GetModuleInfo command. The size of command buffer is out of range. (IP address) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2000103 | Failed in GetModuleInfo command.<br>The size of command buffer is out of range. (MAC address) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000104 | Failed in GetModuleInfo command.<br>The size of command buffer is out of range. (Module type) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000105 | Failed in GetModuleInfo command.<br>The size of command buffer is out of range. (Version) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000200 | Failed in GetProperties command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000201 | Failed in GetProperties command. (Control group1)<br>The number of step is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000202 | Failed in GetProperties command.<br>Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000300 | Failed in SetToolProperties command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000301 | Failed in SetToolProperties command. (Control group1)<br>Invalid data of tool has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2000302 | Failed in SetToolProperties command.<br>Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000303 | Failed in SetToolProperties command. (Control group1)<br>Incorrect number of tool has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000304 | Failed in SetToolProperties command. (Control group1)<br>Failed to write tool file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000400 | Failed in SetUserFrame command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000401 | Failed in SetUserFrame command. (Control group1)<br>Invalid data of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000402 | Failed in SetUserFrame command.<br>Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000403 | Failed in SetUserFrame command. (Control group1)<br>Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000404 | Failed in SetUserFrame command. (Control group1)<br>Failed to write user coordinate file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2000405 | Failed in SetUserFrame command. (Control group1) Failed to make user coordinate. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000406 | Failed in SetUserFrame command. (Control group1) Failed to convert user coordinate. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000500 | Failed in SetFrameShift command. Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000501 | Failed in SetFrameShift command. (Control group1) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000502 | Failed in SetFrameShift command. (Control group1) Failed to set frame shift. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000600 | Failed in SetCubicIZByCenterPoint command. (Control group1) Undefined IZ action has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000601 | Failed in SetCubicIZByCenterPoint command. (Control group1) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2000602 | Failed in SetCubicIZByCenterPoint command. (Control group1) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000603 | Failed in SetCubicIZByCenterPoint command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000604 | Failed in SetCubicIZByCenterPoint command. Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000605 | Failed in SetCubicIZByCenterPoint command. (Control group1) Incorrect ID number has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000606 | Failed in SetCubicIZByCenterPoint command. (Control group1) Failed to write cube file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000700 | Failed in SetCubicIZByTwoCorners command. (Control group1) Undefined IZ action has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000701 | Failed in SetCubicIZByTwoCorners command. (Control group1) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2000702 | Failed in SetCubicIZByTwoCorners command. (Control group1) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000703 | Failed in SetCubicIZByTwoCorners command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000704 | Failed in SetCubicIZByTwoCorners command. Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000705 | Failed in SetCubicIZByTwoCorners command. (Control group1) Incorrect ID number has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000706 | Failed in SetCubicIZByTwoCorners command. (Control group1) Failed to write cube file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000800 | Failed in CoordinateTransform command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000801 | Failed in CoordinateTransform command. Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000802 | Failed in CoordinateTransform command. (Control group1) Undefined transform type has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000803 | Failed in CoordinateTransform command. (Control group1) Failed to convert Axis coordinates to TCP coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000804 | Failed in CoordinateTransform command. (Control group1) Failed to convert Axis coordinates to TCP coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000805 | Failed in CoordinateTransform command. (Control group1) Failed to convert TCP coordinates to Axis coordinates. Incorrect number of tool has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000806 | Failed in CoordinateTransform command. (Control group1) Failed to convert TCP coordinates to Axis coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000807 | Failed in CoordinateTransform command. (Control group1) Failed to convert TCP in World frame to User frame. Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000808 | Failed in CoordinateTransform command. (Control group1) Failed to convert TCP in World frame to User frame. Failed to convert Input coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2000809 | Failed in CoordinateTransform command. (Control group1)<br>Failed to convert TCP in World frame to User frame.<br>Failed to convert User coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000810 | Failed in CoordinateTransform command. (Control group1)<br>Failed to convert TCP in World frame to User frame.<br>Failed to create inverse matrix of user coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000811 | Failed in CoordinateTransform command. (Control group1)<br>Failed to convert TCP in World frame to User frame.<br>Failed in multiplication of coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000812 | Failed in CoordinateTransform command. (Control group1)<br>Failed to convert TCP in World frame to User frame.<br>Failed to convert Output coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000813 | Failed in CoordinateTransform command. (Control group1)<br>Failed to convert TCP in User frame to World frame.<br>Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000814 | Failed in CoordinateTransform command. (Control group1)<br>Failed to convert TCP in User frame to World frame.<br>Failed to convert Input coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2000815 | Failed in CoordinateTransform command. (Control group1)<br>Failed to convert TCP in User frame to World frame.<br>Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000816 | Failed in CoordinateTransform command. (Control group1)<br>Failed to convert TCP in User frame to World frame.<br>Failed in multiplication of coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000817 | Failed in CoordinateTransform command. (Control group1)<br>Failed to convert TCP in User frame to World frame.<br>Failed to convert Output coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000900 | Failed in ConveyorSyncStart command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000901 | Failed in ConveyorSyncStart command.<br>Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000902 | Failed in ConveyorSyncStart command. (Control group1)<br>Incorrect number of conveyor has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000903 | Failed in ConveyorSyncStart command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001000 | Failed in ConveyorSyncStop command. (Control group1) | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001001 | Failed in ConveyorSyncStop command.<br>Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001002 | Failed in ConveyorSyncStop command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001100 | Failed in PositionVariableGet command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001101 | Failed in PositionVariableGet command. (Control group1)<br>The size of command buffer is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001102 | Failed in PositionVariableGet command. (Control group1)<br>Failed to read position variable file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001103 | Failed in PositionVariableGet command. (Control group1)<br>Failed to convert Pulse coordinates to Axis coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001104 | Failed in PositionVariableGet command. (Control group1)<br>Failed to convert Axis coordinates to TCP coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001105 | Failed in PositionVariableGet command. (Control group1)<br>Failed to convert TCP coordinates to Axis coordinates. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001106 | Failed in PositionVariableGet command. (Control group1) Failed to convert TCP in User frame to World frame. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001107 | Failed in PositionVariableGet command. (Control group1) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001108 | Failed in PositionVariableGet command. (Control group1) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001200 | Failed in PositionVariableSet command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001201 | Failed in PositionVariableSet command. (Control group1) Undefined position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001202 | Failed in PositionVariableSet command. (Control group1) Failed to write position variable file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001203 | Failed in PositionVariableSet command. (Control group1) Failed to convert Axis coordinates to Pulse coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2001204 | Failed in PositionVariableSet command.<br>Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001300 | Failed in SetBasePose command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001301 | Failed in SetBasePose command.<br>Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001302 | Failed in SetBasePose command. (Control group1)<br>Failed to write file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001303 | Failed in SetBasePose command.<br>You can not use this command for the robot of control group1. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001400 | Failed in SetHomeOffsets command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001401 | Failed in SetHomeOffsets command.<br>Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001402 | Failed in SetHomeOffsets command. (Control group1)<br>Failed to get current position of pulse type. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2001403 | Failed in SetHomeOffsets command. (Control group1) Failed to write file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001404 | Failed in SetHomeOffsets command. (Control group1) Undefined offset type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001500 | Failed in GetHomeOffsets command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001501 | Failed in GetHomeOffsets command. Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001502 | Failed in GetHomeOffsets command. (Control group1) Failed to get current position of pulse type. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001503 | Failed in GetHomeOffsets command. (Control group1) Failed to read file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001504 | Failed in GetHomeOffsets command. (Control group1) Undefined offset type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001600 | Failed in VarsGet command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2001601 | Failed in VarsGet command. (Control group1) Undefined variable type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001602 | Failed in VarsGet command. (Control group1) Incorrect number of variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001603 | Failed in VarsGet command. (Control group1) Incorrect number of getting has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001700 | Failed in VarsSet command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001701 | Failed in VarsSet command. (Control group1) Undefined variable type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001702 | Failed in VarsSet command. (Control group1) Incorrect number of variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001703 | Failed in VarsSet command. (Control group1) Incorrect number of setting has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001800 | Failed in WriteApplicationData command. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2001801 | Failed in WriteApplicationData command.<br>Failed to write user frame file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001900 | Failed in SetProperties command. (Control group1) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001901 | Failed in SetProperties command. (Control group1)<br>The number of step is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001902 | Failed in SetProperties command.<br>Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2001903 | Failed in SetProperties command. (Control group1)<br>The axis index is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2002000 | Failed in SetGlobalPrm command. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2002001 | Failed in SetGlobalPrm command.<br>Incorrect value of command type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2002002 | Failed in SetGlobalPrm command.<br>The speed override value is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2002100 | Failed in ToolCalib command. (Control group1) | Setting error | Reset the alarm and execute again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2002101 | Failed in ToolCalib command.<br>Incorrect number of control group has been set. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2002102 | Failed in ToolCalib command.<br>(Control group1)<br>Incorrect number of tool has been set. | Setting error | 1. Reset the alarm.<br>2. Specify correct tool number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2002103 | Failed in ToolCalib command.<br>(Control group1)<br>Incorrect number of calibration method has been set. | Setting error | 1. Reset the alarm.<br>2. Specify correct calibration method and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2002104 | Failed in ToolCalib command.<br>(Control group1)<br>Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2002105 | Failed in ToolCalib command.<br>(Control group1)<br>The teaching points include the same points. | Setting error | 1. Reset the alarm.<br>2. Set the teaching point to a different point and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2002106 | Failed in ToolCalib command.<br>(Control group1)<br>An alarm or error is occurring. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2002107 | Failed in ToolCalib command.<br>(Control group1)<br>Editing is prohibited. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2002108 | Failed in ToolCalib command.<br>(Control group1)<br>Specified group is not supported . | Setting error | 1. Reset the alarm.<br>2. Specify robot control group and execute again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2002109 | Failed in ToolCalib command. (Control group1)<br>The tool calibration function is running. | Setting error | 1. Reset the alarm.<br>2. Stop tool calibration and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003000 | Failed in ReleaseBrake command. (Control group1) | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003001 | Failed in ReleaseBrake command. (Control group1)<br>Failed to stop manual brake release. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003002 | Failed in ReleaseBrake command.<br>Incorrect number of control group has been set. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003003 | Failed in ReleaseBrake command. (Control group1)<br>Incorrect axes have been set. | Setting error | 1. Reset the alarm.<br>2. Specify correct axes information and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003004 | Failed in ReleaseBrake command. (Control group1)<br>ReleaseBrake command was executed when the servo power was ON. | Setting error | 1. Reset the alarm.<br>2. Turn off the servo power and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003005 | Failed in ReleaseBrake command. (Control group1)<br>ReleaseBrake command was executed when in emergency stop condition. | Setting error | 1. Reset the alarm.<br>2. Releasing the emergency stop and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2003006 | Failed in ReleaseBrake command. (Control group1) ReleaseBrake command was executed when the BRK_EN signal was in the release prohibition condition. | Setting error | 1. Reset the alarm.<br>2. Set the BRK_EN signal to release permission condition and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003007 | Failed in ReleaseBrake command. (Control group1) Specified axes are lacked. | Setting error | 1. Reset the alarm.<br>2. Check the brake group information.<br>3. Specify correct axes and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003008 | Failed in ReleaseBrake command. (Control group1) Manual release brake function is invalid. | Setting error | 1. Reset the alarm.<br>2. Enable manual release brake function and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003100 | Failed in servofloat ON. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003101 | Failed in servofloat ON. Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003102 | Failed in servofloat ON. Specified servofloat type is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat type and execute again.<br>3. If the alarm occurs again, confirm that specified servofloat type function is enabled. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003103 | Failed in servofloat ON. Specified servofloat condition file number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat type and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003104 | Failed in servofloat ON. Specified group is not supported axis servofloat. | Setting error | 1. Reset the alarm.<br>2. Base axes control group is not supported. Specify robot or station axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2003105 | Failed in servofloat ON.<br>Specified group is not supported linear servofloat. | Setting error | 1. Reset the alarm.<br>2. Base and station axes control group is not supported. Specify Robot axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003106 | Failed in servofloat ON.<br>Specified group is different from specified one in a servofloat condition file. | Setting error | 1. Reset the alarm.<br>2. Confirm the group number specified in a servofloat condition file.<br>3. Specify that group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003107 | Failed in servofloat ON.<br>Failed in referring servofloat condition file. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003108 | Failed in servofloat ON.<br>User frame number is not active. | Setting error | 1. Reset the alarm.<br>2. Set active user frame number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003109 | Failed in servofloat ON.<br>Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003110 | Failed in servofloat ON.<br>Alarm occurring. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003111 | Failed in servofloat ON.<br>Servo power is down. | Setting error | 1. Reset the alarm.<br>2. Turn on the servo power and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003200 | Failed in servofloat OFF. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003201 | Failed in servofloat OFF.<br>Specified control group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2003202 | Failed in servofloat OFF.<br>Specified control group is not supported. | Setting error | 1. Reset the alarm.<br>2. Base axes control group is not supported. Specify robot or station axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003203 | Failed in servofloat OFF.<br>Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003204 | Failed in servofloat OFF.<br>Alarm occurring. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003205 | Failed in servofloat OFF.<br>Servo power is down. | Setting error | 1. Reset the alarm.<br>2. Turn on the servo power and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003300 | Failed in writing servofloat condition file. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003301 | Failed in writing servofloat condition file.<br>Specified control group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003302 | Failed in writing servofloat condition file.<br>Specified servofloat type is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat type and execute again.<br>3. If the alarm occurs again, confirm that specified servofloat type function is enabled. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003303 | Failed in writing servofloat condition file.<br>Specified servofloat condition file number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat condition file number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003304 | Failed in writing servofloat condition file.<br>Specified control group is not supported axis servofloat. | Setting error | 1. Reset the alarm.<br>2. Base axes control group is not supported. Specify robot or station axes control group and execute again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003305 | Failed in writing servofloat condition file.<br>Specified control group is not supported linear servofloat. | Setting error | 1. Reset the alarm.<br>2. Base and station axes control group is not supported. Specify Robot axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003306 | Failed in writing servofloat condition file.<br>Specified coordinate frame is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct coordinate frame and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003307 | Failed in writing servofloat condition file.<br>Specified max/min torque is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct max/min torque and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003308 | Failed in writing servofloat condition file.<br>Specified max/min force is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct max/min force and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003309 | Failed in writing servofloat condition file.<br>Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003310 | Failed in writing servofloat condition file.<br>Alarm occurring. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003311 | Failed in writing servofloat condition file.<br>Edit inhibited. | Setting error | 1. Reset the alarm.<br>2. Release editlock and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003400 | Failed in reading servofloat condition file. | Setting error | Reset the alarm and execute again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003401 | Failed in reading servofloat condition file.<br>Specified control group is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003402 | Failed in reading servofloat condition file.<br>Specified servofloat type is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat type and execute again.<br>3. If the alarm occurs again, confirm that specified servofloat type function is enabled. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003403 | Failed in reading servofloat condition file.<br>Specified servofloat condition file is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat condition file number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003404 | Failed in reading servofloat condition file.<br>Specified control group is different from specified one in a servofloat condition file. | Setting error | 1. Reset the alarm.<br>2. Change control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003405 | Failed in reading servofloat condition file.<br>Instruction buffer size is not enough to read. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003500 | Failed in SetCollisionDetectionStatus command. (Control group 1) | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003501 | Failed in SetCollisionDetectionStatus command.<br>Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2003502 | Failed in SetCollisionDetectionStatus command. (Control group 1) Specified control group is not a robot. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003503 | Failed in SetCollisionDetectionStatus command. (Control group 1) Incorrect status has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003600 | Failed in SetCollisionDetectionLevels command. (Control group 1) | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003601 | Failed in SetCollisionDetectionLevels command. Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003602 | Failed in SetCollisionDetectionLevels command. (Control group 1) Specified control group is not a robot. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003603 | Failed in SetCollisionDetectionLevels command. (Control group 1) Incorrect resource type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003604 | Failed in SetCollisionDetectionLevels command. (Control group 1) Incorrect number of file has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2003605 | Failed in SetCollisionDetectionLevels command. (Control group 1) Incorrect value of levels has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003606 | Failed in SetCollisionDetectionLevels command. (Control group 1) Robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003700 | Failed in WriteCollisionDetectionFile command. (Control group 1) | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003701 | Failed in WriteCollisionDetectionFile command. Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003702 | Failed in WriteCollisionDetectionFile command. (Control group 1) Specified control group is not a robot. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003703 | Failed in WriteCollisionDetectionFile command. (Control group 1) Incorrect number of file has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003704 | Failed in WriteCollisionDetectionFile command. (Control group 1) Incorrect value of levels has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2003705 | Failed in WriteCollisionDetectionFile command. (Control group 1) The function parameter has not been set. | Setting error | Enable Teach Mode Each Axis Setting Function |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003706 | Failed in WriteCollisionDetectionFile command. (Control group 1) Robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003800 | Failed in GetCollisionDetectionStatus command. (Control group 1) | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003801 | Failed in GetCollisionDetectionStatus command. Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003802 | Failed in GetCollisionDetectionStatus command. (Control group 1) Specified control group is not a robot. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003900 | Failed in GetCollisionDetectionTorque command. (Control group 1) | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2003901 | Failed in GetCollisionDetectionTorque command. Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2003902 | Failed in GetCollisionDetectionTorque command. (Control group 1) Specified control group is not a robot. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004000 | Failed in ResetCollisionDetectionTorque command. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004100 | Failed in WriteLimitStatus command. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004101 | Failed in WriteLimitStatus command. Specified limit type is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct limit type and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004102 | Failed in WriteLimitStatus command. All limit have been released. | Setting error | 1. Reset the alarm.<br>2. Confirm the setting of all limit release.<br>Cancel the all limit release and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004103 | Failed in WriteLimitStatus command. Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004104 | Failed in WriteLimitStatus command. Arm interference check function is invalid. | Setting error | 1. Reset the alarm.<br>2. Check whether the arm interference check function is valid and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004105 | Failed in WriteLimitStatus command. Self interference check function is invalid. | Setting error | 1. Reset the alarm.<br>2. Check whether the self interference check function is valid and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2004106 | Failed in WriteLimitStatus command.<br>Cube/Axis interference check function is invalid. | Setting error | 1. Reset the alarm.<br>2. Check whether the Cube/Axis interference check function is valid and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004200 | Failed in ReadLimitStatus command. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004201 | Failed in ReadLimitStatus command.<br>Specified limit type is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct limit type and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004300 | Failed in BrakeGroupInfoGet command. (Control group1) | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004301 | Failed in BrakeGroupInfoGet command.<br>Incorrect number of control group has been set. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004400 | Failed in SetSearch command. (Control Group1) | Setting error | 1. Confirm option function: "Search function" is enabled.<br>2. Reset the alarm and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004401 | Failed in SetSearch command. (Control Group1)<br>Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004402 | Failed in SetSearch command. (Control Group1)<br>Specified control group is not supported search function. | Setting error | Search function supports only robot.<br>1. Reset the alarm.<br>2. Specify robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2004403 | Failed in SetSearch command. (Control Group1) Specified InputSignalBits is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct RIN signal and then try again. Incorrect specification is shown below.<br>(a) It can not be specified 0.<br>(b) If SearchAction is specified 0, it can not be specified multiple RIN signals.<br>(c) It can not be specified RIN signal which number is out of range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004404 | Failed in SetSearch command. (Control Group1) Specified SearchAction is invalid. | Setting error | SearchAction can be specified only 0.<br>1. Reset the alarm.<br>2. Specify 0 to SearchAction and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004500 | Failed in ResetSearch command. (Control Group1) | Setting error | 1. Confirm option function: "Search function" is enabled.<br>2. Reset the alarm and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004501 | Failed in ResetSearch command. (Control Group1) Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004502 | Failed in ResetSearch command. (Control Group1) Specified control group is not supported search function. | Setting error | Search function supports only robot.<br>1. Reset the alarm.<br>2. Specify robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004600 | Failed in GetSearchResult command.(Control Group1) | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004601 | Failed in GetSearchResult command.(Control Group1) Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2004602 | Failed in GetSearchResult command.(Control Group1) Specified control group is not supported search function. | Setting error | Station group can not be specified.<br>1. Reset the alarm.<br>2. Specify robot or base axes group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004603 | Failed in GetSearchResult command.(Control Group1) Memory to store result is not enough. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004604 | Failed in GetSearchResult command.(Control Group1) Robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004700 | Failed in GetSearchPosition command.(Control Group1) | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004701 | Failed in GetSearchPosition command.(Control Group1) Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004702 | Failed in GetSearchResult command.(Control Group1) Specified control group is not supported search function. | Setting error | Station group can not be specified.<br>1. Reset the alarm.<br>2. Specify robot or base axes group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004703 | Failed in GetSearchPosition command.(Control Group1) Memory to store result is not enough. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004704 | Failed in GetSearchPosition command.(Control Group1) Specified coordinate system is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify world or user coordinate system and execute again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004705 | Failed in GetSearchPosition command.(Control Group1) Specified detected number is out of range. | Setting error | If using search motion with SearchAction is 0, detected number must be 0.<br>1. Reset the alarm.<br>2. Specify 0 to detected number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004706 | Failed in GetSearchPosition command.(Control Group1) RIN signal has not been detected. | Setting error | 1. Reset the alarm.<br>2. Verify detected count by executing GetSearchResult command.<br>3. Execute instruction again if it's more than 0. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004707 | Failed in GetSearchPosition command.(Control Group1) Failed in getting detected TCP position. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004708 | Failed in GetSearchPosition command.(Control Group1) Failed in getting detected TCP position in User coordinate system because, user frame had been inactive when search motion was enqueued. | Setting error | Set active user frame number when execute linear move command with search. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004709 | Failed in GetSearchPosition command.(Control Group1) Failed in getting detected TCP position in user coordinate system.. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004710 | Failed in GetSearchPosition command.(Control Group1) Robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004800 | Failed in MultiMoveOn command. (Control group 1) | Setting error | Reset the alarm and execute again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004801 | Failed in MultiMoveOn command.<br>Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004802 | Failed in MultiMoveOn command. (Control group 1)<br>Specified control group is not supported. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004803 | Failed in MultiMoveOn command. (Control group 1)<br>The system state is illegal. | Setting error | 1. Reset the alarm<br>2. Confirm the system state and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004804 | Failed in MultiMoveOn command. (Control group 1)<br>Multiple control group is not supported. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004805 | Failed in MultiMoveOn command. (Control group 1)<br>The VMAX is not supported for multi move motion. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004806 | Failed in MultiMoveOn command. (Control group 1)<br>The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004807 | Failed in MultiMoveOn command. (Control group 1)<br>The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004808 | Failed in MultiMoveOn command. (Control group 1)<br>The deceleration is out of range. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004900 | Failed in MultiMoveOff command. (Control group 1) | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004901 | Failed in MultiMoveOff command.<br>Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004902 | Failed in MultiMoveOff command. (Control group 1)<br>Specified control group is not supported. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2004903 | Failed in MultiMoveOff command. (Control group 1)<br>Failed to start motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2005000 | Failed in SetMultiMoveMinimumBuffer command. (Control group 1) | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2005001 | Failed in SetMultiMoveMinimumBuffer command.<br>Incorrect number of control group has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2005002 | Failed in SetMultiMoveMinimumBuffer command. (Control group 1)<br>Specified control group is not supported. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2005003 | Failed in SetMultiMoveMinimumBuffer command. (Control group 1) The minimum buffer is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2005004 | Failed in SetMultiMoveMinimumBuffer command. (Control group 1) The robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop the robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2005100 | Failed in GetSafetyCRC command. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2005101 | Failed in GetSafetyCRC command. The size of command buffer is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2005102 | Failed in GetSafetyCRC command. The number is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2005103 | Failed in GetSafetyCRC command. The filetype is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2005200 | Failed in MLxGetConfigLog command. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2005201 | Failed in MLxGetConfigLog command. The size of command buffer is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2005202 | Failed in MLxGetConfigLog command.<br>The number is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2005203 | Failed in MLxGetConfigLog command.<br>The configlogtype is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010200 | Failed in GetProperties command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010201 | Failed in GetProperties command. (Control group2)<br>The number of step is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010300 | Failed in SetToolProperties command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010301 | Failed in SetToolProperties command. (Control group2)<br>Invalid data of tool has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010303 | Failed in SetToolProperties command. (Control group2)<br>Incorrect number of tool has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010304 | Failed in SetToolProperties command. (Control group2)<br>Failed to write tool file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010400 | Failed in SetUserFrame command. (Control group2) | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010401 | Failed in SetUserFrame command. (Control group2) Invalid data of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010403 | Failed in SetUserFrame command. (Control group2) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010404 | Failed in SetUserFrame command. (Control group2) Failed to write user coordinate file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010405 | Failed in SetUserFrame command. (Control group2) Failed to make user coordinate. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010406 | Failed in SetUserFrame command. (Control group2) Failed to convert user coordinate. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010501 | Failed in SetFrameShift command. (Control group2) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010502 | Failed in SetFrameShift command. (Control group2) Failed to set frame shift. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2010600 | Failed in SetCubicIZByCenterPoint command. (Control group2) Undefined IZ action has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010601 | Failed in SetCubicIZByCenterPoint command. (Control group2) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010602 | Failed in SetCubicIZByCenterPoint command. (Control group2) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010603 | Failed in SetCubicIZByCenterPoint command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010605 | Failed in SetCubicIZByCenterPoint command. (Control group2) Incorrect ID number has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010606 | Failed in SetCubicIZByCenterPoint command. (Control group2) Failed to write cube file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010700 | Failed in SetCubicIZByTwoCorners command. (Control group2) Undefined IZ action has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2010701 | Failed in SetCubicIZByTwoCorners command. (Control group2) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010702 | Failed in SetCubicIZByTwoCorners command. (Control group2) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010703 | Failed in SetCubicIZByTwoCorners command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010705 | Failed in SetCubicIZByTwoCorners command. (Control group2) Incorrect ID number has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010706 | Failed in SetCubicIZByTwoCorners command. (Control group2) Failed to write cube file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010800 | Failed in CoordinateTransform command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010802 | Failed in CoordinateTransform command. (Control group2) Undefined transform type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010803 | Failed in CoordinateTransform command. (Control group2) Failed to convert Axis coordinates to TCP coordinates. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010804 | Failed in CoordinateTransform command. (Control group2) Failed to convert Axis coordinates to TCP coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010805 | Failed in CoordinateTransform command. (Control group2) Failed to convert TCP coordinates to Axis coordinates. Incorrect number of tool has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010806 | Failed in CoordinateTransform command. (Control group2) Failed to convert TCP coordinates to Axis coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010807 | Failed in CoordinateTransform command. (Control group2) Failed to convert TCP in World frame to User frame. Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010808 | Failed in CoordinateTransform command. (Control group2) Failed to convert TCP in World frame to User frame. Failed to convert Input coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010809 | Failed in CoordinateTransform command. (Control group2) Failed to convert TCP in World frame to User frame. Failed to convert User coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2010810 | Failed in CoordinateTransform command. (Control group2)<br>Failed to convert TCP in World frame to User frame.<br>Failed to create inverse matrix of user coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010811 | Failed in CoordinateTransform command. (Control group2)<br>Failed to convert TCP in World frame to User frame.<br>Failed in multiplication of coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010812 | Failed in CoordinateTransform command. (Control group2)<br>Failed to convert TCP in World frame to User frame.<br>Failed to convert Output coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010813 | Failed in CoordinateTransform command. (Control group2)<br>Failed to convert TCP in User frame to World frame.<br>Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010814 | Failed in CoordinateTransform command. (Control group2)<br>Failed to convert TCP in User frame to World frame.<br>Failed to convert Input coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010815 | Failed in CoordinateTransform command. (Control group2)<br>Failed to convert TCP in User frame to World frame.<br>Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2010816 | Failed in CoordinateTransform command. (Control group2)<br>Failed to convert TCP in User frame to World frame.<br>Failed in multiplication of coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010817 | Failed in CoordinateTransform command. (Control group2)<br>Failed to convert TCP in User frame to World frame.<br>Failed to convert Output coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010900 | Failed in ConveyorSyncStart command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010902 | Failed in ConveyorSyncStart command. (Control group2)<br>Incorrect number of conveyor has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2010903 | Failed in ConveyorSyncStart command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011000 | Failed in ConveyorSyncStop command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011002 | Failed in ConveyorSyncStop command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011100 | Failed in PositionVariableGet command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2011101 | Failed in PositionVariableGet command. (Control group2) The size of command buffer is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011102 | Failed in PositionVariableGet command. (Control group2) Failed to read position variable file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011103 | Failed in PositionVariableGet command. (Control group2) Failed to convert Pulse coordinates to Axis coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011104 | Failed in PositionVariableGet command. (Control group2) Failed to convert Axis coordinates to TCP coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011105 | Failed in PositionVariableGet command. (Control group2) Failed to convert TCP coordinates to Axis coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011106 | Failed in PositionVariableGet command. (Control group2) Failed to convert TCP in User frame to World frame. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011107 | Failed in PositionVariableGet command. (Control group2) Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011108 | Failed in PositionVariableGet command. (Control group2) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011200 | Failed in PositionVariableSet command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011201 | Failed in PositionVariableSet command. (Control group2) Undefined position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011202 | Failed in PositionVariableSet command. (Control group2) Failed to write position variable file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011203 | Failed in PositionVariableSet command. (Control group2) Failed to convert Axis coordinates to Pulse coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011300 | Failed in SetBasePose command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011302 | Failed in SetBasePose command. (Control group2) Failed to write file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011400 | Failed in SetHomeOffsets command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011402 | Failed in SetHomeOffsets command. (Control group2) Failed to get current position of pulse type. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2011403 | Failed in SetHomeOffsets command. (Control group2) Failed to write file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011404 | Failed in SetHomeOffsets command. (Control group2) Undefined offset type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011500 | Failed in GetHomeOffsets command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011502 | Failed in GetHomeOffsets command. (Control group2) Failed to get current position of pulse type. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011503 | Failed in GetHomeOffsets command. (Control group2) Failed to read file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011504 | Failed in GetHomeOffsets command. (Control group2) Undefined offset type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011600 | Failed in VarsGet command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011601 | Failed in VarsGet command. (Control group2) Undefined variable type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2011602 | Failed in VarsGet command. (Control group2) Incorrect number of variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011603 | Failed in VarsGet command. (Control group2) Incorrect number of getting has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011700 | Failed in VarsSet command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011701 | Failed in VarsSet command. (Control group2) Undefined variable type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011702 | Failed in VarsSet command. (Control group2) Incorrect number of variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011703 | Failed in VarsSet command. (Control group2) Incorrect number of setting has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011900 | Failed in SetProperties command. (Control group2) | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2011901 | Failed in SetProperties command. (Control group2) The number of step is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2011903 | Failed in SetProperties command. (Control group2)<br>The axis index is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2012100 | Failed in ToolCalib command. (Control group2) | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2012102 | Failed in ToolCalib command. (Control group2)<br>Incorrect number of tool has been set. | Setting error | 1. Reset the alarm.<br>2. Specify correct tool number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2012103 | Failed in ToolCalib command. (Control group2)<br>Incorrect number of calibration method has been set. | Setting error | 1. Reset the alarm.<br>2. Specify correct calibration method and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2012104 | Failed in ToolCalib command. (Control group2)<br>Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2012105 | Failed in ToolCalib command. (Control group2)<br>The teaching points include the same points. | Setting error | 1. Reset the alarm.<br>2. Set the teaching point to a different point and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2012106 | Failed in ToolCalib command. (Control group2)<br>An alarm or error is occurring. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2012107 | Failed in ToolCalib command. (Control group2)<br>Editing is prohibited. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2012108 | Failed in ToolCalib command. (Control group2)<br>Specified group is not supported . | Setting error | 1. Reset the alarm.<br>2. Specify robot control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2012109 | Failed in ToolCalib command. (Control group2)<br>The tool calibration function is running. | Setting error | 1. Reset the alarm.<br>2. Stop tool calibration and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013000 | Failed in ReleaseBrake command(Control group2) . | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013001 | Failed in ReleaseBrake command. (Control group2)<br>Failed to stop manual brake release. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013003 | Failed in ReleaseBrake command. (Control group2)<br>Incorrect axes have been set. | Setting error | 1. Reset the alarm.<br>2. Specify correct axes information and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013004 | Failed in ReleaseBrake command. (Control group2)<br>ReleaseBrake command was executed when the servo power was ON. | Setting error | 1. Reset the alarm.<br>2. Turn off the servo power and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013005 | Failed in ReleaseBrake command. (Control group2)<br>ReleaseBrake command was executed when in emergency stop condition. | Setting error | 1. Reset the alarm.<br>2. Releasing the emergency stop and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2013006 | Failed in ReleaseBrake command. (Control group2) ReleaseBrake command was executed when the BRK_EN signal was in the release prohibition condition. | Setting error | 1. Reset the alarm.<br>2. Set the BRK_EN signal to release permission condition and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013007 | Failed in ReleaseBrake command. (Control group2) Specified axes are lacked. | Setting error | 1. Reset the alarm.<br>2. Check the brake group information.<br>3. Specify correct axes and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013008 | Failed in ReleaseBrake command. (Control group2) Manual release brake function is invalid. | Setting error | 1. Reset the alarm.<br>2. Enable manual release brake function and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013100 | Failed in servofloat ON (Control Group No.2). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013101 | Failed in servofloat ON (Control Group No.2). Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013102 | Failed in servofloat ON (Control Group No.2). Specified servofloat type is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat type and execute again.<br>3. If the alarm occurs again, confirm that specified servofloat type function is enabled. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013103 | Failed in servofloat ON (Control Group No.2). Specified servofloat condition file number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat type and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013104 | Failed in servofloat ON (Control Group No.2). Specified group is not supported axis servofloat. | Setting error | 1. Reset the alarm.<br>2. Base axes control group is not supported. Specify robot or station axes control group and execute again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013105 | Failed in servofloat ON (Control Group No.2).<br>Specified group is not supported linear servofloat. | Setting error | 1. Reset the alarm.<br>2. Base and station axes control group is not supported. Specify Robot axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013106 | Failed in servofloat ON (Control Group No.2).<br>Specified group is different from specified one in a servofloat condition file. | Setting error | 1. Reset the alarm.<br>2. Confirm the group number specified in a servofloat condition file.<br>3. Specify that group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013107 | Failed in servofloat ON (Control Group No.2).<br>Failed in referring servofloat condition file. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013108 | Failed in servofloat ON (Control Group No.2).<br>User frame number is not active. | Setting error | 1. Reset the alarm.<br>2. Set active user frame number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013109 | Failed in servofloat ON (Control Group No.2).<br>Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013110 | Failed in servofloat ON (Control Group No.2).<br>Alarm occurring. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013111 | Failed in servofloat ON (Control Group No.2).<br>Servo power is down. | Setting error | 1. Reset the alarm.<br>2. Turn on the servo power and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013200 | Failed in servofloat OFF (Control Group No.2). | Setting error | Reset the alarm and execute again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013201 | Failed in servofloat OFF (Control Group No.2). Specified control group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013202 | Failed in servofloat OFF (Control Group No.2). Specified control group is not supported. | Setting error | 1. Reset the alarm.<br>2. Base axes control group is not supported. Specify robot or station axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013203 | Failed in servofloat OFF (Control Group No.2). Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013204 | Failed in servofloat OFF (Control Group No.2). Alarm occurring. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013205 | Failed in servofloat OFF (Control Group No.2). Servo power is down. | Setting error | 1. Reset the alarm.<br>2. Turn on the servo power and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013300 | Failed in writing servofloat condition file (Control Group No.2). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013301 | Failed in writing servofloat condition file (Control Group No.2). Specified control group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2013302 | Failed in writing servofloat condition file (Control Group No.2).<br>Specified servofloat type is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat type and execute again.<br>3. If the alarm occurs again, confirm that specified servofloat type function is enabled. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013303 | Failed in writing servofloat condition file (Control Group No.2).<br>Specified servofloat condition file number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat condition file number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013304 | Failed in writing servofloat condition file (Control Group No.2).<br>Specified control group is not supported axis servofloat. | Setting error | 1. Reset the alarm.<br>2. Base axes control group is not supported. Specify robot or station axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013305 | Failed in writing servofloat condition file (Control Group No.2).<br>Specified control group is not supported linear servofloat. | Setting error | 1. Reset the alarm.<br>2. Base and station axes control group is not supported. Specify Robot axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013306 | Failed in writing servofloat condition file (Control Group No.2).<br>Specified coordinate frame is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct coordinate frame and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013307 | Failed in writing servofloat condition file (Control Group No.2).<br>Specified max/min torque is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct max/min torque and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013308 | Failed in writing servofloat condition file (Control Group No.2).<br>Specified max/min force is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct max/min force and execute again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013309 | Failed in writing servofloat condition file (Control Group No.2).<br>Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013310 | Failed in writing servofloat condition file (Control Group No.2).<br>Alarm occurring. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013311 | Failed in writing servofloat condition file (Control Group No.2).<br>Edit inhibited. | Setting error | 1. Reset the alarm.<br>2. Release editlock and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013400 | Failed in reading servofloat condition file (Control Group No.2). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013401 | Failed in reading servofloat condition file (Control Group No.2).<br>Specified control group is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013402 | Failed in reading servofloat condition file (Control Group No.2).<br>Specified servofloat type is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat type and execute again.<br>3. If the alarm occurs again, confirm that specified servofloat type function is enabled. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013403 | Failed in reading servofloat condition file (Control Group No.2).<br>Specified servofloat condition file is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat condition file number and execute again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013404 | Failed in reading servofloat condition file (Control Group No.2).<br>Specified control group is different from specified one in a servofloat condition file. | Setting error | 1. Reset the alarm.<br>2. Change control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013405 | Failed in reading servofloat condition file (Control Group No.2).<br>Instruction buffer size is not enough to read. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013500 | Failed in SetCollisionDetectionStatus command (Control group 2). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013502 | Failed in SetCollisionDetectionStatus command. (Control group 2)<br>Specified control group is not a robot. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013503 | Failed in SetCollisionDetectionStatus command. (Control group 2)<br>Incorrect status has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013600 | Failed in SetCollisionDetectionLevels command (Control group 2). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013602 | Failed in SetCollisionDetectionLevels command. (Control group 2)<br>Specified control group is not a robot. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013603 | Failed in SetCollisionDetectionLevels command. (Control group 2) Incorrect resource type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013604 | Failed in SetCollisionDetectionLevels command. (Control group 2) Incorrect number of file has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013605 | Failed in SetCollisionDetectionLevels command. (Control group 2) Incorrect value of levels has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013606 | Failed in SetCollisionDetectionLevels command. (Control group 2) Robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013700 | Failed in WriteCollisionDetectionFile command (Control group 2). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013702 | Failed in WriteCollisionDetectionFile command. (Control group 2) Specified control group is not a robot. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013703 | Failed in WriteCollisionDetectionFile command. (Control group 2) Incorrect number of file has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013704 | Failed in WriteCollisionDetectionFile command. (Control group 2) Incorrect value of levels has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013705 | Failed in WriteCollisionDetectionFile command. (Control group 2) The function parameter has not been set. | Setting error | Enable Teach Mode Each Axis Setting Function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013706 | Failed in WriteCollisionDetectionFile command. (Control group 2) Robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013800 | Failed in GetCollisionDetectionStatus command (Control group 2). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013802 | Failed in GetCollisionDetectionStatus command. (Control group 2) Specified control group is not a robot. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013900 | Failed in GetCollisionDetectionTorque command (Control group 2). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2013902 | Failed in GetCollisionDetectionTorque command. (Control group 2) Specified control group is not a robot. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014300 | Failed in BrakeGroupInfoGet command (Control group2). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014400 | Failed in SetSearch command (Control Group2). | Setting error | 1. Confirm option function: "Search function" is enabled.<br>2. Reset the alarm and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014401 | Failed in SetSearch command. (Control Group2)<br>Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014402 | Failed in SetSearch command. (Control Group2)<br>Specified control group is not supported search function. | Setting error | Search function supports only robot.<br>1. Reset the alarm.<br>2. Specify robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014403 | Failed in SetSearch command. (Control Group2)<br>Specified InputSignalBits is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct RIN signal and then try again. Incorrect specification is shown below.<br>(a) It can not be specified 0.<br>(b) If SearchAction is specified 0, it can not be specified multiple RIN signals.<br>(c) It can not be specified RIN signal which number is out of range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014404 | Failed in SetSearch command. (Control Group2)<br>Specified SearchAction is invalid. | Setting error | SearchAction can be specified only 0.<br>1. Reset the alarm.<br>2. Specify 0 to SearchAction and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014500 | Failed in ResetSearch command (Control Group2). | Setting error | 1. Confirm option function: "Search function" is enabled.<br>2. Reset the alarm and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2014501 | Failed in ResetSearch command. (Control Group2)<br>Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014502 | Failed in ResetSearch command. (Control Group2)<br>Specified control group is not supported search function. | Setting error | Search function supports only robot.<br>1. Reset the alarm.<br>2. Specify robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014600 | Failed in GetSearchResult command (Control Group2). | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014601 | Failed in GetSearchResult command.(Control Group2)<br>Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014602 | Failed in GetSearchResult command.(Control Group2)<br>Specified control group is not supported search function. | Setting error | Station group can not be specified.<br>1. Reset the alarm.<br>2. Specify robot or base axes group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014603 | Failed in GetSearchResult command.(Control Group2)<br>Memory to store result is not enough. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014604 | Failed in GetSearchResult command.(Control Group2)<br>Robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014700 | Failed in GetSearchPosition command (Control Group2). | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2014701 | Failed in GetSearchPosition command.(Control Group2) Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014702 | Failed in GetSearchResult command.(Control Group2) Specified control group is not supported search function. | Setting error | Station group can not be specified.<br>1. Reset the alarm.<br>2. Specify robot or base axes group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014703 | Failed in GetSearchPosition command.(Control Group2) Memory to store result is not enough. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014704 | Failed in GetSearchPosition command (Control Group2). Specified coordinate system is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify world or user coordinate system and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014705 | Failed in GetSearchPosition command.(Control Group2) Specified detected number is out of range. | Setting error | If using search motion with SearchAction is 0, detected number must be 0.<br>1. Reset the alarm.<br>2. Specify 0 to detected number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014706 | Failed in GetSearchPosition command.(Control Group2) RIN signal has not been detected. | Setting error | 1. Reset the alarm.<br>2. Verify detected count by executing GetSearchResult command.<br>3. Execute instruction again if it's more than 0. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014707 | Failed in GetSearchPosition command.(Control Group2) Failed in getting detected TCP position. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2014708 | Failed in GetSearchPosition command.(Control Group2) Failed in getting detected TCP position in User coordinate system because, user frame had been inactive when search motion was enqueued. | Setting error | Set active user frame number when execute linear move command with search. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014709 | Failed in GetSearchPosition command.(Control Group2) Failed in getting detected TCP position in user coordinate system.. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014710 | Failed in GetSearchPosition command.(Control Group2) Robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014800 | Failed in MultiMoveOn command (Control group 2). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014802 | Failed in MultiMoveOn command. (Control group 2) Specified control group is not supported. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014803 | Failed in MultiMoveOn command. (Control group 2) The system state is illegal. | Setting error | 1. Reset the alarm.<br>2. Confirm the system state and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014804 | Failed in MultiMoveOn command. (Control group 2) Multiple control group is not supported. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014805 | Failed in MultiMoveOn command. (Control group 2) The VMAX is not supported for multi move motion. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014806 | Failed in MultiMoveOn command. (Control group 2) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014807 | Failed in MultiMoveOn command. (Control group 2) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014808 | Failed in MultiMoveOn command. (Control group 2) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014900 | Failed in MultiMoveOff command (Control group 2). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014902 | Failed in MultiMoveOff command. (Control group 2) Specified control group is not supported. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2014903 | Failed in MultiMoveOff command. (Control group 2) Failed to start motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2015000 | Failed in SetMultiMoveMinimumBuffer command (Control group 2). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2015002 | Failed in SetMultiMoveMinimumBuffer command. (Control group 2) Specified control group is not supported. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2015003 | Failed in SetMultiMoveMinimumBuffer command. (Control group 2) The minimum buffer is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2015004 | Failed in SetMultiMoveMinimumBuffer command. (Control group 2) The robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop the robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020200 | Failed in GetProperties command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020201 | Failed in GetProperties command. (Control group3) The number of step is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020300 | Failed in SetToolProperties command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020301 | Failed in SetToolProperties command. (Control group3) Invalid data of tool has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020303 | Failed in SetToolProperties command. (Control group3) Incorrect number of tool has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020304 | Failed in SetToolProperties command. (Control group3) Failed to write tool file. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020400 | Failed in SetUserFrame command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020401 | Failed in SetUserFrame command. (Control group3) Invalid data of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020403 | Failed in SetUserFrame command. (Control group3) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020404 | Failed in SetUserFrame command. (Control group3) Failed to write user coordinate file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020405 | Failed in SetUserFrame command. (Control group3) Failed to make user coordinate. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020406 | Failed in SetUserFrame command. (Control group3) Failed to convert user coordinate. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020501 | Failed in SetFrameShift command (Control group3). Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020502 | Failed in SetFrameShift command. (Control group3) Failed to set frame shift. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020600 | Failed in SetCubicIZByCenterPoint command (Control group3). Undefined IZ action has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020601 | Failed in SetCubicIZByCenterPoint command (Control group3). Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020602 | Failed in SetCubicIZByCenterPoint command. (Control group3) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020603 | Failed in SetCubicIZByCenterPoint command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020605 | Failed in SetCubicIZByCenterPoint command. (Control group3) Incorrect ID number has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020606 | Failed in SetCubicIZByCenterPoint command. (Control group3) Failed to write cube file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020700 | Failed in SetCubicIZByTwoCorners command (Control group3). Undefined IZ action has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020701 | Failed in SetCubicIZByTwoCorners command (Control group3). Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020702 | Failed in SetCubicIZByTwoCorners command. (Control group3) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020703 | Failed in SetCubicIZByTwoCorners command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020705 | Failed in SetCubicIZByTwoCorners command. (Control group3) Incorrect ID number has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020706 | Failed in SetCubicIZByTwoCorners command. (Control group3) Failed to write cube file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020800 | Failed in CoordinateTransform command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020802 | Failed in CoordinateTransform command (Control group3). Undefined transform type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2020803 | Failed in CoordinateTransform command. (Control group3) Failed to convert Axis coordinates to TCP coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020804 | Failed in CoordinateTransform command. (Control group3) Failed to convert Axis coordinates to TCP coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020805 | Failed in CoordinateTransform command. (Control group3) Failed to convert TCP coordinates to Axis coordinates. Incorrect number of tool has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020806 | Failed in CoordinateTransform command. (Control group3) Failed to convert TCP coordinates to Axis coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020807 | Failed in CoordinateTransform command. (Control group3) Failed to convert TCP in World frame to User frame. Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020808 | Failed in CoordinateTransform command. (Control group3) Failed to convert TCP in World frame to User frame. Failed to convert Input coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020809 | Failed in CoordinateTransform command. (Control group3) Failed to convert TCP in World frame to User frame. Failed to convert User coordinates. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020810 | Failed in CoordinateTransform command. (Control group3)<br>Failed to convert TCP in World frame to User frame.<br>Failed to create inverse matrix of user coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020811 | Failed in CoordinateTransform command. (Control group3)<br>Failed to convert TCP in World frame to User frame.<br>Failed in multiplication of coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020812 | Failed in CoordinateTransform command. (Control group3)<br>Failed to convert TCP in World frame to User frame.<br>Failed to convert Output coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020813 | Failed in CoordinateTransform command. (Control group3)<br>Failed to convert TCP in User frame to World frame.<br>Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020814 | Failed in CoordinateTransform command. (Control group3)<br>Failed to convert TCP in User frame to World frame.<br>Failed to convert Input coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020815 | Failed in CoordinateTransform command. (Control group3)<br>Failed to convert TCP in User frame to World frame.<br>Incorrect number of user coordinate has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020816 | Failed in CoordinateTransform command. (Control group3)<br>Failed to convert TCP in User frame to World frame.<br>Failed in multiplication of coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020817 | Failed in CoordinateTransform command. (Control group3)<br>Failed to convert TCP in User frame to World frame.<br>Failed to convert Output coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020900 | Failed in ConveyorSyncStart command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020902 | Failed in ConveyorSyncStart command. (Control group3)<br>Incorrect number of conveyor has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2020903 | Failed in ConveyorSyncStart command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021000 | Failed in ConveyorSyncStop command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021002 | Failed in ConveyorSyncStop command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021100 | Failed in PositionVariableGet command (Control group3). | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021101 | Failed in PositionVariableGet command. (Control group3) The size of command buffer is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021102 | Failed in PositionVariableGet command. (Control group3) Failed to read position variable file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021103 | Failed in PositionVariableGet command. (Control group3) Failed to convert Pulse coordinates to Axis coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021104 | Failed in PositionVariableGet command. (Control group3) Failed to convert Axis coordinates to TCP coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021105 | Failed in PositionVariableGet command. (Control group3) Failed to convert TCP coordinates to Axis coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021106 | Failed in PositionVariableGet command. (Control group3) Failed to convert TCP in User frame to World frame. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021107 | Failed in PositionVariableGet command (Control group3). Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2021108 | Failed in PositionVariableGet command. (Control group3) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021200 | Failed in PositionVariableSet command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021201 | Failed in PositionVariableSet command (Control group3). Undefined position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021202 | Failed in PositionVariableSet command. (Control group3) Failed to write position variable file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021203 | Failed in PositionVariableSet command. (Control group3) Failed to convert Axis coordinates to Pulse coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021300 | Failed in SetBasePose command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021302 | Failed in SetBasePose command. (Control group3) Failed to write file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021400 | Failed in SetHomeOffsets command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2021402 | Failed in SetHomeOffsets command. (Control group3) Failed to get current position of pulse type. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021403 | Failed in SetHomeOffsets command. (Control group3) Failed to write file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021404 | Failed in SetHomeOffsets command (Control group3). Undefined offset type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021500 | Failed in GetHomeOffsets command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021502 | Failed in GetHomeOffsets command. (Control group3) Failed to get current position of pulse type. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021503 | Failed in GetHomeOffsets command. (Control group3) Failed to read file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021504 | Failed in GetHomeOffsets command (Control group3). Undefined offset type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021600 | Failed in VarsGet command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2021601 | Failed in VarsGet command (Control group3). Undefined variable type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021602 | Failed in VarsGet command. (Control group3) Incorrect number of variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021603 | Failed in VarsGet command. (Control group3) Incorrect number of getting has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021700 | Failed in VarsSet command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021701 | Failed in VarsSet command (Control group3). Undefined variable type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021702 | Failed in VarsSet command. (Control group3) Incorrect number of variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021703 | Failed in VarsSet command. (Control group3) Incorrect number of setting has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021900 | Failed in SetProperties command (Control group3). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2021901 | Failed in SetProperties command. (Control group3) The number of step is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2021903 | Failed in SetProperties command. (Control group3) The axis index is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2022100 | Failed in ToolCalib command (Control group3). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2022102 | Failed in ToolCalib command. (Control group3) Incorrect number of tool has been set. | Setting error | 1. Reset the alarm.<br>2. Specify correct tool number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2022103 | Failed in ToolCalib command. (Control group3) Incorrect number of calibration method has been set. | Setting error | 1. Reset the alarm.<br>2. Specify correct calibration method and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2022104 | Failed in ToolCalib command. (Control group3) Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2022105 | Failed in ToolCalib command. (Control group3) The teaching points include the same points. | Setting error | 1. Reset the alarm.<br>2. Set the teaching point to a different point and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2022106 | Failed in ToolCalib command. (Control group3) An alarm or error is occurring. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2022107 | Failed in ToolCalib command. (Control group3) Editing is prohibited. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2022108 | Failed in ToolCalib command. (Control group3) Specified group is not supported . | Setting error | 1. Reset the alarm.<br>2. Specify robot control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2022109 | Failed in ToolCalib command. (Control group3) The tool calibration function is running. | Setting error | 1. Reset the alarm.<br>2. Stop tool calibration and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023000 | Failed in ReleaseBrake command (Control group3). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023001 | Failed in ReleaseBrake command. (Control group3) Failed to stop manual brake release. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023003 | Failed in ReleaseBrake command. (Control group3) Incorrect axes have been set. | Setting error | 1. Reset the alarm.<br>2. Specify correct axes information and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023004 | Failed in ReleaseBrake command. (Control group3) ReleaseBrake command was executed when the servo power was ON. | Setting error | 1. Reset the alarm.<br>2. Turn off the servo power and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023005 | Failed in ReleaseBrake command. (Control group3) ReleaseBrake command was executed when in emergency stop condition. | Setting error | 1. Reset the alarm.<br>2. Releasing the emergency stop and execute again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023006 | Failed in ReleaseBrake command. (Control group3) ReleaseBrake command was executed when the BRK_EN signal was in the release prohibition condition. | Setting error | 1. Reset the alarm.<br>2. Set the BRK_EN signal to release permission condition and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023007 | Failed in ReleaseBrake command. (Control group3) Specified axes are lacked. | Setting error | 1. Reset the alarm.<br>2. Check the brake group information.<br>3. Specify correct axes and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023008 | Failed in ReleaseBrake command. (Control group3) Manual release brake function is invalid. | Setting error | 1. Reset the alarm.<br>2. Enable manual release brake function and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023100 | Failed in servofloat ON (Control Group No.3). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023101 | Failed in servofloat ON (Control Group No.3). Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023102 | Failed in servofloat ON (Control Group No.3). Specified servofloat type is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat type and execute again.<br>3. If the alarm occurs again, confirm that specified servofloat type function is enabled. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023103 | Failed in servofloat ON (Control Group No.3). Specified servofloat condition file number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat type and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2023104 | Failed in servofloat ON (Control Group No.3).<br>Specified group is not supported axis servofloat. | Setting error | 1. Reset the alarm.<br>2. Base axes control group is not supported. Specify robot or station axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023105 | Failed in servofloat ON (Control Group No.3).<br>Specified group is not supported linear servofloat. | Setting error | 1. Reset the alarm.<br>2. Base and station axes control group is not supported. Specify Robot axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023106 | Failed in servofloat ON (Control Group No.3).<br>Specified group is different from specified one in a servofloat condition file. | Setting error | 1. Reset the alarm.<br>2. Confirm the group number specified in a servofloat condition file.<br>3. Specify that group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023107 | Failed in servofloat ON (Control Group No.3).<br>Failed in referring servofloat condition file. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023108 | Failed in servofloat ON (Control Group No.3).<br>User frame number is not active. | Setting error | 1. Reset the alarm.<br>2. Set active user frame number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023109 | Failed in servofloat ON (Control Group No.3).<br>Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023110 | Failed in servofloat ON (Control Group No.3).<br>Alarm occurring. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023111 | Failed in servofloat ON (Control Group No.3).<br>Servo power is down. | Setting error | 1. Reset the alarm.<br>2. Turn on the servo power and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2023200 | Failed in servofloat OFF (Control Group No.3). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023201 | Failed in servofloat OFF (Control Group No.3). Specified control group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023202 | Failed in servofloat OFF (Control Group No.3). Specified control group is not supported. | Setting error | 1. Reset the alarm.<br>2. Base axes control group is not supported. Specify robot or station axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023203 | Failed in servofloat OFF (Control Group No.3). Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023204 | Failed in servofloat OFF (Control Group No.3). Alarm occurring. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023205 | Failed in servofloat OFF (Control Group No.3). Servo power is down. | Setting error | 1. Reset the alarm.<br>2. Turn on the servo power and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023300 | Failed in writing servofloat condition file (Control Group No.3). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023301 | Failed in writing servofloat condition file (Control Group No.3). Specified control group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2023302 | Failed in writing servofloat condition file (Control Group No.3).<br>Specified servofloat type is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat type and execute again.<br>3. If the alarm occurs again, confirm that specified servofloat type function is enabled. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023303 | Failed in writing servofloat condition file (Control Group No.3).<br>Specified servofloat condition file number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat condition file number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023304 | Failed in writing servofloat condition file (Control Group No.3).<br>Specified control group is not supported axis servofloat. | Setting error | 1. Reset the alarm.<br>2. Base axes control group is not supported. Specify robot or station axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023305 | Failed in writing servofloat condition file (Control Group No.3).<br>Specified control group is not supported linear servofloat. | Setting error | 1. Reset the alarm.<br>2. Base and station axes control group is not supported. Specify Robot axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023306 | Failed in writing servofloat condition file (Control Group No.3).<br>Specified coordinate frame is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct coordinate frame and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023307 | Failed in writing servofloat condition file (Control Group No.3).<br>Specified max/min torque is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct max/min torque and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023308 | Failed in writing servofloat condition file (Control Group No.3).<br>Specified max/min force is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct max/min force and execute again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023309 | Failed in writing servofloat condition file (Control Group No.3).<br>Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023310 | Failed in writing servofloat condition file (Control Group No.3).<br>Alarm occurring. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023311 | Failed in writing servofloat condition file (Control Group No.3).<br>Edit inhibited. | Setting error | 1. Reset the alarm.<br>2. Release editlock and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023400 | Failed in reading servofloat condition file (Control Group No.3). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023401 | Failed in reading servofloat condition file (Control Group No.3).<br>Specified control group is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023402 | Failed in reading servofloat condition file (Control Group No.3).<br>Specified servofloat type is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat type and execute again.<br>3. If the alarm occurs again, confirm that specified servofloat type function is enabled. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023403 | Failed in reading servofloat condition file (Control Group No.3).<br>Specified servofloat condition file is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat condition file number and execute again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023404 | Failed in reading servofloat condition file (Control Group No.3).<br>Specified control group is different from specified one in a servofloat condition file. | Setting error | 1. Reset the alarm.<br>2. Change control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023405 | Failed in reading servofloat condition file (Control Group No.3).<br>Instruction buffer size is not enough to read. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023500 | Failed in SetCollisionDetectionStatus command (Control group 3). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023502 | Failed in SetCollisionDetectionStatus command. (Control group 3)<br>Specified control group is not a robot. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023503 | Failed in SetCollisionDetectionStatus command. (Control group 3)<br>Incorrect status has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023600 | Failed in SetCollisionDetectionLevels command (Control group 3). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023602 | Failed in SetCollisionDetectionLevels command. (Control group 3)<br>Specified control group is not a robot. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023603 | Failed in SetCollisionDetectionLevels command. (Control group 3) Incorrect resource type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023604 | Failed in SetCollisionDetectionLevels command. (Control group 3) Incorrect number of file has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023605 | Failed in SetCollisionDetectionLevels command. (Control group 3) Incorrect value of levels has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023606 | Failed in SetCollisionDetectionLevels command. (Control group 3) Robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023700 | Failed in WriteCollisionDetectionFile command (Control group 3). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023702 | Failed in WriteCollisionDetectionFile command. (Control group 3) Specified control group is not a robot. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023703 | Failed in WriteCollisionDetectionFile command. (Control group 3) Incorrect number of file has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023704 | Failed in WriteCollisionDetectionFile command. (Control group 3) Incorrect value of levels has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023705 | Failed in WriteCollisionDetectionFile command. (Control group 3) The function parameter has not been set. | Setting error | Enable Teach Mode Each Axis Setting Function. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023706 | Failed in WriteCollisionDetectionFile command. (Control group 3) Robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023800 | Failed in GetCollisionDetectionStatus command. (Control group 3). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023802 | Failed in GetCollisionDetectionStatus command. (Control group 3) Specified control group is not a robot. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023900 | Failed in GetCollisionDetectionTorque command. (Control group 3). Specified control group is not a robot. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2023902 | Failed in GetCollisionDetectionTorque command. (Control group 3) Specified control group is not a robot. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024300 | Failed in BrakeGroupInfoGet command. (Control group3). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024400 | Failed in SetSearch command. (Control Group3). | Setting error | 1. Confirm option function: "Search function" is enabled.<br>2. Reset the alarm and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024401 | Failed in SetSearch command. (Control Group3)<br>Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024402 | Failed in SetSearch command. (Control Group3)<br>Specified control group is not supported search function. | Setting error | Search function supports only robot.<br>1. Reset the alarm.<br>2. Specify robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024403 | Failed in SetSearch command. (Control Group3)<br>Specified InputSignalBits is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct RIN signal and then try again. Incorrect specification is shown below.<br>(a) It can not be specified 0.<br>(b) If SearchAction is specified 0, it can not be specified multiple RIN signals.<br>(c) It can not be specified RIN signal which number is out of range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024404 | Failed in SetSearch command. (Control Group3)<br>Specified SearchAction is invalid. | Setting error | SearchAction can be specified only 0.<br>1. Reset the alarm.<br>2. Specify 0 to SearchAction and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024500 | Failed in ResetSearch command. (Control Group3). | Setting error | 1. Confirm option function: "Search function" is enabled.<br>2. Reset the alarm and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2024501 | Failed in ResetSearch command. (Control Group3)<br>Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024502 | Failed in ResetSearch command. (Control Group3)<br>Specified control group is not supported search function. | Setting error | Search function supports only robot.<br>1. Reset the alarm.<br>2. Specify robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024600 | Failed in GetSearchResult command.(Control Group3). | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024601 | Failed in GetSearchResult command.(Control Group3)<br>Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024602 | Failed in GetSearchResult command.(Control Group3)<br>Specified control group is not supported search function. | Setting error | Station group can not be specified.<br>1. Reset the alarm.<br>2. Specify robot or base axes group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024603 | Failed in GetSearchResult command.(Control Group3)<br>Memory to store result is not enough. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024604 | Failed in GetSearchResult command.(Control Group3)<br>Robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024700 | Failed in GetSearchPosition command.(Control Group3). | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2024701 | Failed in GetSearchPosition command.(Control Group3) Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024702 | Failed in GetSearchResult command.(Control Group3) Specified control group is not supported search function. | Setting error | Station group can not be specified.<br>1. Reset the alarm.<br>2. Specify robot or base axes group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024703 | Failed in GetSearchPosition command.(Control Group3) Memory to store result is not enough. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024704 | Failed in GetSearchPosition command.(Control Group3). Specified coordinate system is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify world or user coordinate system and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024705 | Failed in GetSearchPosition command.(Control Group3) Specified detected number is out of range. | Setting error | If using search motion with SearchAction is 0, detected number must be 0.<br>1. Reset the alarm.<br>2. Specify 0 to detected number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024706 | Failed in GetSearchPosition command.(Control Group3) RIN signal has not been detected. | Setting error | 1. Reset the alarm.<br>2. Verify detected count by executing GetSearchResult command.<br>3. Execute instruction again if it's more than 0. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024707 | Failed in GetSearchPosition command.(Control Group3) Failed in getting detected TCP position. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2024708 | Failed in GetSearchPosition command.(Control Group3) Failed in getting detected TCP position in User coordinate system because, user frame had been inactive when search motion was enqueued. | Setting error | Set active user frame number when execute linear move command with search. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024709 | Failed in GetSearchPosition command.(Control Group3) Failed in getting detected TCP position in user coordinate system.. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024710 | Failed in GetSearchPosition command.(Control Group3) Robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024800 | Failed in MultiMoveOn command. (Control group 3). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024802 | Failed in MultiMoveOn command. (Control group 3) Specified control group is not supported. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024803 | Failed in MultiMoveOn command. (Control group 3) The system state is illegal. | Setting error | 1. Reset the alarm.<br>2. Confirm the system state and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024804 | Failed in MultiMoveOn command. (Control group 3) Multiple control group is not supported. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024805 | Failed in MultiMoveOn command. (Control group 3) The VMAX is not supported for multi move motion. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024806 | Failed in MultiMoveOn command. (Control group 3) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024807 | Failed in MultiMoveOn command. (Control group 3) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024808 | Failed in MultiMoveOn command. (Control group 3) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024900 | Failed in MultiMoveOff command. (Control group 3). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024902 | Failed in MultiMoveOff command. (Control group 3) Specified control group is not supported. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2024903 | Failed in MultiMoveOff command. (Control group 3) Failed to start motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2025000 | Failed in SetMultiMoveMinimumBuffer command. (Control group 3). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2025002 | Failed in SetMultiMoveMinimumBuffer command. (Control group 3) Specified control group is not supported. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2025003 | Failed in SetMultiMoveMinimumBuffer command. (Control group 3) The minimum buffer is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2025004 | Failed in SetMultiMoveMinimumBuffer command. (Control group 3) The robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop the robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030200 | Failed in GetProperties command. (Control group4). The number of step is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030201 | Failed in GetProperties command. (Control group4) The number of step is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030300 | Failed in SetToolProperties command. (Control group4). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030301 | Failed in SetToolProperties command. (Control group4) Invalid data of tool has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030303 | Failed in SetToolProperties command. (Control group4) Incorrect number of tool has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030304 | Failed in SetToolProperties command. (Control group4) Failed to write tool file. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030400 | Failed in SetUserFrame command. (Control group4). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030401 | Failed in SetUserFrame command. (Control group4) Invalid data of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030403 | Failed in SetUserFrame command. (Control group4) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030404 | Failed in SetUserFrame command. (Control group4) Failed to write user coordinate file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030405 | Failed in SetUserFrame command. (Control group4) Failed to make user coordinate. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030406 | Failed in SetUserFrame command. (Control group4) Failed to convert user coordinate. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030501 | Failed in SetFrameShift command. (Control group4). Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030502 | Failed in SetFrameShift command. (Control group4) Failed to set frame shift. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030600 | Failed in SetCubicIZByCenterPoint command. (Control group4). Undefined IZ action has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030601 | Failed in SetCubicIZByCenterPoint command. (Control group4). Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030602 | Failed in SetCubicIZByCenterPoint command. (Control group4) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030603 | Failed in SetCubicIZByCenterPoint command. (Control group4). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030605 | Failed in SetCubicIZByCenterPoint command. (Control group4) Incorrect ID number has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030606 | Failed in SetCubicIZByCenterPoint command. (Control group4) Failed to write cube file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030700 | Failed in SetCubicIZByTwoCorners command. (Control group4). Undefined IZ action has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030701 | Failed in SetCubicIZByTwoCorners command. (Control group4). Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030702 | Failed in SetCubicIZByTwoCorners command. (Control group4) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030703 | Failed in SetCubicIZByTwoCorners command. (Control group4). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030705 | Failed in SetCubicIZByTwoCorners command. (Control group4) Incorrect ID number has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030706 | Failed in SetCubicIZByTwoCorners command. (Control group4) Failed to write cube file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030800 | Failed in CoordinateTransform command. (Control group4). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030802 | Failed in CoordinateTransform command. (Control group4). Undefined transform type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2030803 | Failed in CoordinateTransform command. (Control group4) Failed to convert Axis coordinates to TCP coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030804 | Failed in CoordinateTransform command. (Control group4) Failed to convert Axis coordinates to TCP coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030805 | Failed in CoordinateTransform command. (Control group4) Failed to convert TCP coordinates to Axis coordinates. Incorrect number of tool has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030806 | Failed in CoordinateTransform command. (Control group4) Failed to convert TCP coordinates to Axis coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030807 | Failed in CoordinateTransform command. (Control group4) Failed to convert TCP in World frame to User frame. Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030808 | Failed in CoordinateTransform command. (Control group4) Failed to convert TCP in World frame to User frame. Failed to convert Input coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030809 | Failed in CoordinateTransform command. (Control group4) Failed to convert TCP in World frame to User frame. Failed to convert User coordinates. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030810 | Failed in CoordinateTransform command. (Control group4)<br>Failed to convert TCP in World frame to User frame.<br>Failed to create inverse matrix of user coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030811 | Failed in CoordinateTransform command. (Control group4)<br>Failed to convert TCP in World frame to User frame.<br>Failed in multiplication of coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030812 | Failed in CoordinateTransform command. (Control group4)<br>Failed to convert TCP in World frame to User frame.<br>Failed to convert Output coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030813 | Failed in CoordinateTransform command. (Control group4)<br>Failed to convert TCP in User frame to World frame.<br>Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030814 | Failed in CoordinateTransform command. (Control group4)<br>Failed to convert TCP in User frame to World frame.<br>Failed to convert Input coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030815 | Failed in CoordinateTransform command. (Control group4)<br>Failed to convert TCP in User frame to World frame.<br>Incorrect number of user coordinate has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030816 | Failed in CoordinateTransform command. (Control group4) Failed to convert TCP in User frame to World frame. Failed in multiplication of coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030817 | Failed in CoordinateTransform command. (Control group4) Failed to convert TCP in User frame to World frame. Failed to convert Output coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030900 | Failed in ConveyorSyncStart command. (Control group4). Incorrect number of conveyor has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030902 | Failed in ConveyorSyncStart command. (Control group4) Incorrect number of conveyor has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2030903 | Failed in ConveyorSyncStart command. (Control group4). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031000 | Failed in ConveyorSyncStop command. (Control group4). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031002 | Failed in ConveyorSyncStop command. (Control group4). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031100 | Failed in PositionVariableGet command. (Control group4). | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031101 | Failed in PositionVariableGet command. (Control group4) The size of command buffer is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031102 | Failed in PositionVariableGet command. (Control group4) Failed to read position variable file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031103 | Failed in PositionVariableGet command. (Control group4) Failed to convert Pulse coordinates to Axis coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031104 | Failed in PositionVariableGet command. (Control group4) Failed to convert Axis coordinates to TCP coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031105 | Failed in PositionVariableGet command. (Control group4) Failed to convert TCP coordinates to Axis coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031106 | Failed in PositionVariableGet command. (Control group4) Failed to convert TCP in User frame to World frame. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031107 | Failed in PositionVariableGet command. (Control group4). Undefined coordinate system has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2031108 | Failed in PositionVariableGet command. (Control group4) Incorrect number of user coordinate has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031200 | Failed in PositionVariableSet command. (Control group4). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031201 | Failed in PositionVariableSet command. (Control group4). Undefined position type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031202 | Failed in PositionVariableSet command. (Control group4) Failed to write position variable file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031203 | Failed in PositionVariableSet command. (Control group4) Failed to convert Axis coordinates to Pulse coordinates. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031300 | Failed in SetBasePose command. (Control group4). Failed to write file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031302 | Failed in SetBasePose command. (Control group4) Failed to write file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031400 | Failed in SetHomeOffsets command. (Control group4). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2031402 | Failed in SetHomeOffsets command. (Control group4) Failed to get current position of pulse type. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031403 | Failed in SetHomeOffsets command. (Control group4) Failed to write file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031404 | Failed in SetHomeOffsets command. (Control group4). Undefined offset type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031500 | Failed in GetHomeOffsets command. (Control group4). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031502 | Failed in GetHomeOffsets command. (Control group4) Failed to get current position of pulse type. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031503 | Failed in GetHomeOffsets command. (Control group4) Failed to read file. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031504 | Failed in GetHomeOffsets command. (Control group4). Undefined offset type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031600 | Failed in VarsGet command. (Control group4). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2031601 | Failed in VarsGet command. (Control group4). Undefined variable type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031602 | Failed in VarsGet command. (Control group4) Incorrect number of variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031603 | Failed in VarsGet command. (Control group4) Incorrect number of getting has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031700 | Failed in VarsSet command. (Control group4). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031701 | Failed in VarsSet command. (Control group4). Undefined variable type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031702 | Failed in VarsSet command. (Control group4) Incorrect number of variable has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031703 | Failed in VarsSet command. (Control group4) Incorrect number of setting has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031900 | Failed in SetProperties command. (Control group4). | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2031901 | Failed in SetProperties command. (Control group4) The number of step is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2031903 | Failed in SetProperties command. (Control group4) The axis index is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2032100 | Failed in ToolCalib command. (Control group4). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2032102 | Failed in ToolCalib command. (Control group4) Incorrect number of tool has been set. | Setting error | 1. Reset the alarm.<br>2. Specify correct tool number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2032103 | Failed in ToolCalib command. (Control group4) Incorrect number of calibration method has been set. | Setting error | 1. Reset the alarm.<br>2. Specify correct calibration method and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2032104 | Failed in ToolCalib command. (Control group4) Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2032105 | Failed in ToolCalib command. (Control group4) The teaching points include the same points. | Setting error | 1. Reset the alarm.<br>2. Set the teaching point to a different point and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2032106 | Failed in ToolCalib command. (Control group4) An alarm or error is occurring. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2032107 | Failed in ToolCalib command. (Control group4) Editing is prohibited. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2032108 | Failed in ToolCalib command. (Control group4) Specified group is not supported . | Setting error | 1. Reset the alarm.<br>2. Specify robot control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2032109 | Failed in ToolCalib command. (Control group4) The tool calibration function is running. | Setting error | 1. Reset the alarm.<br>2. Stop tool calibration and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033000 | Failed in ReleaseBrake command. (Control group4). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033001 | Failed in ReleaseBrake command. (Control group4) Failed to stop manual brake release. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033003 | Failed in ReleaseBrake command. (Control group4) Incorrect axes have been set. | Setting error | 1. Reset the alarm.<br>2. Specify correct axes information and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033004 | Failed in ReleaseBrake command. (Control group4) ReleaseBrake command was executed when the servo power was ON. | Setting error | 1. Reset the alarm.<br>2. Turn off the servo power and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033005 | Failed in ReleaseBrake command. (Control group4) ReleaseBrake command was executed when in emergency stop condition. | Setting error | 1. Reset the alarm.<br>2. Releasing the emergency stop and execute again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033006 | Failed in ReleaseBrake command. (Control group4) ReleaseBrake command was executed when the BRK_EN signal was in the release prohibition condition. | Setting error | 1. Reset the alarm.<br>2. Set the BRK_EN signal to release permission condition and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033007 | Failed in ReleaseBrake command. (Control group4) Specified axes are lacked. | Setting error | 1. Reset the alarm.<br>2. Check the brake group information.<br>3. Specify correct axes and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033008 | Failed in ReleaseBrake command. (Control group4) Manual release brake function is invalid. | Setting error | 1. Reset the alarm.<br>2. Enable manual release brake function and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033100 | Failed in servofloat ON (Control Group No.4). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033101 | Failed in servofloat ON (Control Group No.4). Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033102 | Failed in servofloat ON (Control Group No.4). Specified servofloat type is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat type and execute again.<br>3. If the alarm occurs again, confirm that specified servofloat type function is enabled. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033103 | Failed in servofloat ON (Control Group No.4). Specified servofloat condition file number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat type and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2033104 | Failed in servofloat ON (Control Group No.4).<br>Specified group is not supported axis servofloat. | Setting error | 1. Reset the alarm.<br>2. Base axes control group is not supported. Specify robot or station axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033105 | Failed in servofloat ON (Control Group No.4).<br>Specified group is not supported linear servofloat. | Setting error | 1. Reset the alarm.<br>2. Base and station axes control group is not supported. Specify Robot axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033106 | Failed in servofloat ON (Control Group No.4).<br>Specified group is different from specified one in a servofloat condition file. | Setting error | 1. Reset the alarm.<br>2. Confirm the group number specified in a servofloat condition file.<br>3. Specify that group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033107 | Failed in servofloat ON (Control Group No.4).<br>Failed in referring servofloat condition file. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033108 | Failed in servofloat ON (Control Group No.4).<br>User frame number is not active. | Setting error | 1. Reset the alarm.<br>2. Set active user frame number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033109 | Failed in servofloat ON (Control Group No.4).<br>Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033110 | Failed in servofloat ON (Control Group No.4).<br>Alarm occurring. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033111 | Failed in servofloat ON (Control Group No.4).<br>Servo power is down. | Setting error | 1. Reset the alarm.<br>2. Turn on the servo power and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2033200 | Failed in servofloat OFF (Control Group No.4). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033201 | Failed in servofloat OFF (Control Group No.4). Specified control group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033202 | Failed in servofloat OFF (Control Group No.4). Specified control group is not supported. | Setting error | 1. Reset the alarm.<br>2. Base axes control group is not supported. Specify robot or station axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033203 | Failed in servofloat OFF (Control Group No.4). Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033204 | Failed in servofloat OFF (Control Group No.4). Alarm occurring. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033205 | Failed in servofloat OFF (Control Group No.4). Servo power is down. | Setting error | 1. Reset the alarm.<br>2. Turn on the servo power and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033300 | Failed in writing servofloat condition file (Control Group No.4). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033301 | Failed in writing servofloat condition file (Control Group No.4). Specified control group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2033302 | Failed in writing servofloat condition file (Control Group No.4).<br>Specified servofloat type is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat type and execute again.<br>3. If the alarm occurs again, confirm that specified servofloat type function is enabled. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033303 | Failed in writing servofloat condition file (Control Group No.4).<br>Specified servofloat condition file number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat condition file number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033304 | Failed in writing servofloat condition file (Control Group No.4).<br>Specified control group is not supported axis servofloat. | Setting error | 1. Reset the alarm.<br>2. Base axes control group is not supported. Specify robot or station axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033305 | Failed in writing servofloat condition file (Control Group No.4).<br>Specified control group is not supported linear servofloat. | Setting error | 1. Reset the alarm.<br>2. Base and station axes control group is not supported. Specify Robot axes control group and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033306 | Failed in writing servofloat condition file (Control Group No.4).<br>Specified coordinate frame is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct coordinate frame and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033307 | Failed in writing servofloat condition file (Control Group No.4).<br>Specified max/min torque is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct max/min torque and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033308 | Failed in writing servofloat condition file (Control Group No.4).<br>Specified max/min force is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct max/min force and execute again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033309 | Failed in writing servofloat condition file (Control Group No.4).<br>Robot moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033310 | Failed in writing servofloat condition file (Control Group No.4).<br>Alarm occurring. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033311 | Failed in writing servofloat condition file (Control Group No.4).<br>Edit inhibited. | Setting error | 1. Reset the alarm.<br>2. Release editlock and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033400 | Failed in reading servofloat condition file (Control Group No.4). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033401 | Failed in reading servofloat condition file (Control Group No.4).<br>Specified control group is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033402 | Failed in reading servofloat condition file (Control Group No.4).<br>Specified servofloat type is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat type and execute again.<br>3. If the alarm occurs again, confirm that specified servofloat type function is enabled. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033403 | Failed in reading servofloat condition file (Control Group No.4).<br>Specified servofloat condition file is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct servofloat condition file number and execute again. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033404 | Failed in reading servofloat condition file (Control Group No.4).<br>Specified control group is different from specified one in a servofloat condition file. | Setting error | 1. Reset the alarm.<br>2. Change control group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033405 | Failed in reading servofloat condition file (Control Group No.4).<br>Instruction buffer size is not enough to read. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033500 | Failed in SetCollisionDetectionStatus command. (Control group 4). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033502 | Failed in SetCollisionDetectionStatus command. (Control group 4)<br>Specified control group is not a robot. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033503 | Failed in SetCollisionDetectionStatus command. (Control group 4)<br>Incorrect status has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033600 | Failed in SetCollisionDetectionLevels command. (Control group 4). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033602 | Failed in SetCollisionDetectionLevels command. (Control group 4)<br>Specified control group is not a robot. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033603 | Failed in SetCollisionDetectionLevels command. (Control group 4) Incorrect resource type has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033604 | Failed in SetCollisionDetectionLevels command. (Control group 4) Incorrect number of file has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033605 | Failed in SetCollisionDetectionLevels command. (Control group 4) Incorrect value of levels has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033606 | Failed in SetCollisionDetectionLevels command. (Control group 4) Robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033700 | Failed in WriteCollisionDetectionFile command. (Control group 4). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033702 | Failed in WriteCollisionDetectionFile command. (Control group 4) Specified control group is not a robot. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033703 | Failed in WriteCollisionDetectionFile command. (Control group 4) Incorrect number of file has been set. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033704 | Failed in WriteCollisionDetectionFile command. (Control group 4) Incorrect value of levels has been set. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033705 | Failed in WriteCollisionDetectionFile command. (Control group 4) The function parameter has not been set. | Setting error | Enable Teach Mode Each Axis Setting Function |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033706 | Failed in WriteCollisionDetectionFile command. (Control group 4) Robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033800 | Failed in GetCollisionDetectionStatus command. (Control group 4). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033802 | Failed in GetCollisionDetectionStatus command. (Control group 4) Specified control group is not a robot. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033900 | Failed in GetCollisionDetectionTorque command. (Control group 4). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2033902 | Failed in GetCollisionDetectionTorque command. (Control group 4) Specified control group is not a robot. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034300 | Failed in BrakeGroupInfoGet command. (Control group4). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034400 | Failed in SetSearch command. (Control Group4). | Setting error | 1. Confirm option function: "Search function" is enabled.<br>2. Reset the alarm and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034401 | Failed in SetSearch command. (Control Group4)<br>Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034402 | Failed in SetSearch command. (Control Group4)<br>Specified control group is not supported search function. | Setting error | Search function supports only robot.<br>1. Reset the alarm.<br>2. Specify robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034403 | Failed in SetSearch command. (Control Group4)<br>Specified InputSignalBits is invalid. | Setting error | 1. Reset the alarm.<br>2. Specify correct RIN signal and then try again. Incorrect specification is shown below.<br>(a) It can not be specified 0.<br>(b) If SearchAction is specified 0, it can not be specified multiple RIN signals.<br>(c) It can not be specified RIN signal which number is out of range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034404 | Failed in SetSearch command. (Control Group4)<br>Specified SearchAction is invalid. | Setting error | SearchAction can be specified only 0.<br>1. Reset the alarm.<br>2. Specify 0 to SearchAction and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034500 | Failed in ResetSearch command. (Control Group4). | Setting error | 1. Confirm option function: "Search function" is enabled.<br>2. Reset the alarm and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2034501 | Failed in ResetSearch command. (Control Group4)<br>Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034502 | Failed in ResetSearch command. (Control Group4)<br>Specified control group is not supported search function. | Setting error | Search function supports only robot.<br>1. Reset the alarm.<br>2. Specify robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034600 | Failed in GetSearchResult command.(Control Group4). | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034601 | Failed in GetSearchResult command.(Control Group4)<br>Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034602 | Failed in GetSearchResult command.(Control Group4)<br>Specified control group is not supported search function. | Setting error | Station group can not be specified.<br>1. Reset the alarm.<br>2. Specify robot or base axes group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034603 | Failed in GetSearchResult command.(Control Group4)<br>Memory to store result is not enough. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034604 | Failed in GetSearchResult command.(Control Group4)<br>Robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034700 | Failed in GetSearchPosition command.(Control Group4). | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2034701 | Failed in GetSearchPosition command.(Control Group4) Specified group number is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify correct group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034702 | Failed in GetSearchResult command.(Control Group4) Specified control group is not supported search function. | Setting error | Station group can not be specified.<br>1. Reset the alarm.<br>2. Specify robot or base axes group number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034703 | Failed in GetSearchPosition command.(Control Group4) Memory to store result is not enough. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034704 | Failed in GetSearchPosition command.(Control Group4). Specified coordinate system is out of range. | Setting error | 1. Reset the alarm.<br>2. Specify world or user coordinate system and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034705 | Failed in GetSearchPosition command.(Control Group4) Specified detected number is out of range. | Setting error | If using search motion with SearchAction is 0, detected number must be 0.<br>1. Reset the alarm.<br>2. Specify 0 to detected number and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034706 | Failed in GetSearchPosition command.(Control Group4) RIN signal has not been detected. | Setting error | 1. Reset the alarm.<br>2. Verify detected count by executing GetSearchResult command.<br>3. Execute instruction again if it's more than 0. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034707 | Failed in GetSearchPosition command.(Control Group4) Failed in getting detected TCP position. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 2034708 | Failed in GetSearchPosition command.(Control Group4) Failed in getting detected TCP position in User coordinate system because, user frame had been inactive when search motion was enqueued. | Setting error | Set active user frame number when execute linear move command with search. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034709 | Failed in GetSearchPosition command.(Control Group4) Failed in getting detected TCP position in user coordinate system.. | Setting error | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034710 | Failed in GetSearchPosition command.(Control Group4) Robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034800 | Failed in MultiMoveOn command. (Control group 4). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034802 | Failed in MultiMoveOn command. (Control group 4) Specified control group is not supported. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034803 | Failed in MultiMoveOn command. (Control group 4) The system state is illegal. | Setting error | 1. Reset the alarm.<br>2. Confirm the system state and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034804 | Failed in MultiMoveOn command. (Control group 4) Multiple control group is not supported. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034805 | Failed in MultiMoveOn command. (Control group 4) The VMAX is not supported for multi move motion. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034806 | Failed in MultiMoveOn command. (Control group 4) The speed is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034807 | Failed in MultiMoveOn command. (Control group 4) The acceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034808 | Failed in MultiMoveOn command. (Control group 4) The deceleration is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034900 | Failed in MultiMoveOff command. (Control group 4). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034902 | Failed in MultiMoveOff command. (Control group 4) Specified control group is not supported. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2034903 | Failed in MultiMoveOff command. (Control group 4) Failed to start motion. | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2035000 | Failed in SetMultiMoveMinimumBuffer command. (Control group 4). | Setting error | Reset the alarm and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2035002 | Failed in SetMultiMoveMinimumBuffer command. (Control group 4) Specified control group is not supported. | Setting error | Input correct data. |

**4846: MotoLogix (OPERATION ERROR) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2035003 | Failed in SetMultiMoveMinimumBuffer command. (Control group 4) The minimum buffer is out of range. | Setting error | Input correct data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2035004 | Failed in SetMultiMoveMinimumBuffer command. (Control group 4) The robot is moving. | Setting error | 1. Reset the alarm.<br>2. Stop the robot and execute again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4847: MotoLogix (CONNECTION ERROR)

Connection error of MotoLogix occurred.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Connection failed. | Connection retry timeout | 1. Check connector of the cable is inserted correctly.<br>2. Check the checksum value. If the checksum value is not correct, send data will be ignored.<br>3. Change limit time parameter(S2C[1381]). The unit is [sec]. If set to 0, limit time will be infinite. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Disconnected. | Communication timeout | 1. Check connector of the cable is inserted correctly.<br>2. Check the checksum value. If the checksum value is not correct, send data will be ignored<br>3. Change watchdog timer parameter(S2C[1380]). The unit is [msec]. If set to 0, watchdog timer will be default time. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Checksum value is incorrect. | Communication failure | Check the checksum value in send data. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4848: OVERCURRENT(SERVO)

This alarm occurs if a current exceeding the allowable maximum current is applied for amplifier.
As a cause of the alarm, a ground fault in the U, V, or W wire, or a short circuit between these wires is suspected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN501, CPS01-CN154<br>• SDCA01-CN531, CN532, CN533<br>• Inverter board-CN571, SDCA01-CN509<br>• Converter-CN557<br>• SDB(External axis SERVO PACK)-CN591,592 |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the following cables.<br>• Manipulator cable<br>• Supply cable |
| | | Module failure(amplifier) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the amplifier. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | Setting error | Check the parameter setting value. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4849: CURRENT DETECTOR ERROR(SERVO)

Failure of the current detector is suspected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN501, CPS01-CN154<br>• SDCA01-CN531, CN532, CN533<br>• Inverter board-CN571, SDCA01-CN509<br>• Converter-CN557<br>• SDB(External axis SERVO PACK)-CN591,592 |
| | | Module failure(amplifier) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the amplifier. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the following cables.<br>• Manipulator cable<br>• Supply cable |

**4849: CURRENT DETECTOR ERROR(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |
| | | Setting error | Check the parameter setting value. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4850: REGENERATIVE TROUBLE(SERVO2)

Disconnection of the regenerative resistor cable and failure of the regenerative transistor are suspected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | Check the connection of regenerative resistor cable. |
| | | Overloading | Check that the load does not exceed the allowable limit. |
| | | Module failure (SERVOPACK) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SERVOPACK. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4852: OVERVOLTAGE(SERVO2)

The SERVOPACK main circuit DC voltage is incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Voltage failure | Check the SERVOPACK Primary supply voltage. |
| | | Setting error | Check the settings for manipulator motion condition (influence by external force, load condition). |
| | | Module failure (SERVOPACK) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SERVOPACK. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4856: OVERLOAD(CONTINUE)(SERVO2)

The motor torque continuously exceeded the rated torque for a certain period.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SERVOPACK. |
| | | Connection failure | Check the settings for manipulator motion condition (influence by external force, load condition). |

**4856: OVERLOAD(CONTINUE)(SERVO2) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Module failure (SERVOPACK) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SERVOPACK. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4866: OPEN PHASE(SERVO2)

Either of voltage to the SERVOPACK of the three phase input power supply has decreased.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Voltage failure | Modify the primary breaker voltage to the specified voltage 200V(+10%to15%). |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the contactor. |
| | | Module failure(converter) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Module failure (SERVOPACK) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SERVOPACK. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4878: SPEED CONTROL EXECUTE ERROR(SERVO)

Speed control could not be executed in the specified axis.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4880: EXCESSIVE FORCE DETECTION

Force control system detected the excessive external force.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Reset the alarm, and then check the direction of the external force looking at subcode(the direction is based on the sensor coordinate system),and operate robot to move in the direction releasing external force.<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure) |

## ◆ 4881: EXCESSIVE VELOCITY CORRECTION

Force control system detected the excessive axis angular velocity correction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Reset the alarm, and then make the reference force smaller or operate robot to move in the direction releasing external force.<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure) |

## ◆ 4882: SINGULAR POINT ERROR

Force control system detected the singular posture.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Reset the alarm, and then modify the toughed robot posture avoiding singularity points.<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure) |

## ◆ 4883: SENSOR OVER RANGE

Sensor output exceeded the range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: channel | Setting error | 1. Reset the alarm and decrease the motion speed in JOB.<br>2. If the alarm occurs again, save the CMOS.BIN in the maintenance mode and contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4884: FORCE CONTROL NOT PERMITTED

YASKAWA force control function is unavailable.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Reset the alarm, and purchase the YASKAWA force control function.<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure) |

## ◆ 4885: SENSOR OUTPUT ERROR

Sensor output remains unchanged.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: channel | Sensor error | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN in the maintenance mode and contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4886: FORCE CONTROL FILE ERROR

The robot of instruction does not match the robot of force control file.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The specified force control file is for other manipulator. | Setting error | Reset the alarm and check the force control file. The robot of instruction does not match the robot of force control file. Change the file number or the settings of force control file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4887: FORCE CONTROL CONDITION ERROR

Setting error in executing force control occur.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: wrong condition<br>D0:tool number error<br>D1:coordinate type error<br>D2:singularity area error<br>D3:inertia coefficient error<br>D4:viscosity coefficient error<br>D5:stifness coefficient error<br>D6:position limit error<br>D7:velocity limit error<br>D8:angular velocity limit error<br>D9:angular velocity alarm error<br>D10:contact stabilizing parameter error | Setting error | 1. Reset the alarm, and then modify the parameter in the referred motoplus application program.<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure) |

## ◆ 4888: FORCE SENSOR OUTPUT ERROR

Force sensor continually outputs maximum or minimum values.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Force sensor output error | sensor(error) | 1. Reset the alarm, and then release external forces applied to force sensor if the forces are excessive.<br>2. If the alarm occurs again, force sensor is faulty.<br>Please contact your Yaskawa representative. |

## ◆ 4889: FORCE COMMAND VALUE SET ERROR

Force command value for invalid axis direction is set.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | software ( setting error ) | Reset the alarm, and then check the relationship between the set force command value and the valid axial direction. |

## ◆ 4890: SCALE SETTING ERROR

Argument error in function mpFcsConvForceScale()

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Argument error occurs in mpFcsForceConvScale().<br>Sub Code:erroneous argument value | software ( setting error ) | Reset the alarm, and then check the argument value related to scale. |

## ◆ 4897: FORCE CONTROL INTERNAL ERROR

An error has occurred in MotoFit function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 32 | Force control parameter error | Setting error | Reset the alarm and check the tags of the instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 64 | Excessive force detected | Setting error | 1. Reset the alarm and check the force sensor. Too large force has detected in force sensor.<br>2. If the alarm occurs again, save the CMOS.BIN in the maintenance mode and contact your YASKAWA representative about occurrence status (operating procedure). |
| 128 | Overspeed | Setting error | Reset the alarm and decrease the motion speed in JOB. |
| | | Other | If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 256 | Singular point error | Setting error | Reset the alarm and check the posture of the robot. Change the JOB to avoid the singular point. |

**4897: FORCE CONTROL INTERNAL ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 512 | Board / cable error | Sensor / Cable error | 1. Check the force sensor, the sensor board, and the cable of force sensor.<br>2. If the alarm occurs again, check the connection of sensor board to the controller.<br>3. If the alarm occurs again, save the CMOS.BIN in the maintenance mode and contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4898: EXCESSIVE SEGMENT (SV)

Force control system detected the overspeed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Reset the alarm, and then ease the velocity or check whether the posture is singular .<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure) |

## ◆ 4899: EXCESSIVE SEGMENT(SAFETY 1) (SV)

Force control system detected the overspeed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Reset the alarm, and then ease the velocity or check whether the posture is singular .<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure) |

## ◆ 4900: EXCESSIVE SEGMENT(SAFETY 2) (SV)

Force control system detected the overspeed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Reset the alarm, and then ease the velocity or check whether the posture is singular .<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure) |

## ◆ 4901: CUBE/AXIS INTERFERENCE

The manipulator moved in the specified cubic area, or exceeded the maximum value or minimum value of the axis interference.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Group, axis, and interference area number | Setting error | Check the following settings.<br>• Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is out of interference area.<br>• Change the settings for interference area. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4902: CUBE INTERFERENCE(TCP)

The TCP of the manipulator has entered the cube interference area that was specified.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Group and interference area number | Setting error | Check the following settings.<br>• Change the step position where the alarm occurred to the area outside the interference area.<br>• Modify the interference area setting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4903: CUBE INTERFERENCE(ENTIRE)

A part of the manipulator has entered the cube interference area that was specified.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Group, axis, and interference area number | Setting error | Check the following settings.<br>• Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is out of interference area.<br>• Change the settings for interference area. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4904: CUBE INTERFERENCE AREA SET ERR

Cube interference area setting is abnormal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | Maximum number of the cube interference area exceeds the allowable range. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | The number of cube interference area whose monitoring part is "whole" exceeds the limit. | Setting error | Reduce the number of cube interference area whose monitoring part is "whole" . |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Detect the cube whose interference area are extremely big or small. | Setting error | 1. Among the cube interference areas already values are entered, modify as follows.<br>• Change the extremely big values to smaller ones.<br>• Change the extremely small values to bigger ones.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Detect the cube interference area whose monitoring part is set to "whole" despite the invalid status of cube arm interference check function. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs just after loading the cube interference area setting function, execute the following measures.<br>1.Among the cube interference areas to be loaded, change the monitoring part setting from "whole" to "control point".<br>2.Load the modified cube interference area.<br>3.Confirm the settings if the alarm occurs again after the loading operation.<br>3. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4905: INSTRUCTION ERROR 1

SKCHK mode is not released normally.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Sub code:<br>SKCHK mode release error | Software operation error occurred | 1. Reset the alarm and decrease the motion speed in JOB.<br>2. If the alarm occurs again, save the CMOS.BIN in the maintenance mode and contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Sub code:<br>Robot number error | Setting error | 1. Reset the alarm and change the robot number.<br>2. If the alarm occurs again, save the CMOS.BIN in the maintenance mode and contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4908: SPEED CONTROL ERROR

An error occurred at speed control execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Control group designation error. | Setting error | 1. Reset the alarm.<br>2. Check the settings for the specified control group number. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Speed control axis designation error. | Setting error | 1. Reset the alarm.<br>2. Check the settings for the specified speed control axis number. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Maximum rotation speed over. | Setting error | 1. Reset the alarm.<br>2. Set the rotation speed that does not exceed the maximum rotation speed. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4909: TEST RUN(HIGH ACCURACY) ERROR

The function which is not allowed in TEST RUN(HIGH ACCURACY) was performed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Operation mistake | Select a sub menu [TEACHING CONDITION SETTING] under main menu [SETUP].<br>Set "TEST RUN CONTROL " to "NORMAL" to perform TEST RUN operation. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4910: SAFETY FIELDBUS DATA ERROR

Communication data with the safety PLC is abnormal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The output signal to the safety PLC does not match between CPU1 and CPU2. | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, please re-power on the safety PLC and the robot controller. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | In the output signal to the safety PLC, CPU1 could not confirm the update of CPU2 within the specified time. | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, please re-power on the safety PLC and the robot controller. |

**4910: SAFETY FIELDBUS DATA ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | In the output signal to the safety PLC, CPU2 could not confirm the update of CPU1 within the specified time. | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, please re-power on the safety PLC and the robot controller. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4911: SAFETY FIELDBUS NOT ESTABLISHED

Communication with the safety PLC was not established to the default time.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | PROFIsafe communication was not established to the default time, or communication was disconnected after establishment. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following.<br>• Check that the F_CRC_Length set on the CP1616 board in maintenance mode matches the F_CRC_Length value set on the application software (TIA Portal, etc.).<br>• Check that the safety IO size set on the CP1616 board in maintenance mode matches the value of the safety IO size set in the application software (TIA Portal, etc.). |
| | | Setting error | When using the virtual communication function, check the following on the CP1616 setting screen in maintenance mode.<br>• The setting item of "CP1616" is "USED".<br>• The setting item of "IO device" is "ENABLE".<br>• The setting item of "PROFIsafe VIRTUAL COMM." is "VIRTUAL". |
| | | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following.<br>• SF(Group Fault) LED, BF(Bus Fault) LED of CP1616 board is lit or blinking.<br>• SF(Group Fault) LED, BF(Bus Fault) LED of safety PLC board is lit or blinking.<br>3. If the above problems, there is a possibility that the connection settings of the safety PLC or CP1616 is not successful. Please set again according to the manual. |
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, please re-power on the safety PLC and the robot controller. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the connection or insertion state of cables connected to the CP1616 board and safety PLC. |

**4911: SAFETY FIELDBUS NOT ESTABLISHED (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | CP1616 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the CP1616 board. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | CIP Safety communication was not established to the default time.(sub code is not defined ) | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, please re-power on the safety PLC and the robot controller. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following.<br>• In the case of EtherNet/IP Safety, please check the connection or insertion state of cables connected to the "CN5 connector of ACP01 board" and safety PLC.<br>• In the case of DeviceNet Safety, please check the connection or insertion state of cables connected to the SST-DN4-PCIE board and safety PLC. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | CIP Safety communication was not established to the default time.(CIP Safety stack is under the Self-diagnosis) | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, please re-power on the safety PLC and the robot controller. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following.<br>• In the case of EtherNet/IP Safety, please check the connection or insertion state of cables connected to the "CN5 connector of ACP01 board" and safety PLC.<br>• In the case of DeviceNet Safety, please check the connection or insertion state of cables connected to the SST-DN4-PCIE board and safety PLC. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | CIP Safety communication was not established to the default time.(Waiting for communication establish) | Software configuration error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, the connection setup of EtherNet/IP (CPU board) or safety PLC may not be performed normally.<br>Please set up again according to a manual. |
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, please re-power on the safety PLC and the robot controller. |

**4911: SAFETY FIELDBUS NOT ESTABLISHED (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following.<br>• In the case of EtherNet/IP Safety, please check the connection or insertion state of cables connected to the "CN5 connector of ACP01 board" and safety PLC.<br>• In the case of DeviceNet Safety, please check the connection or insertion state of cables connected to the SST-DN4-PCIE board and safety PLC. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | CIP Safety communication was not established to the default time.(Exception generating under CIP Safety stack self-diagnosis ) | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, please re-power on the safety PLC and the robot controller. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following.<br>• In the case of EtherNet/IP Safety, please check the connection or insertion state of cables connected to the "CN5 connector of ACP01 board" and safety PLC.<br>• In the case of DeviceNet Safety, please check the connection or insertion state of cables connected to the SST-DN4-PCIE board and safety PLC. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | CIP Safety communication was not established to the default time.(Abort of CIP Safety stack processing ) | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, please re-power on the safety PLC and the robot controller. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following.<br>• In the case of EtherNet/IP Safety, please check the connection or insertion state of cables connected to the "CN5 connector of ACP01 board" and safety PLC.<br>• In the case of DeviceNet Safety, please check the connection or insertion state of cables connected to the SST-DN4-PCIE board and safety PLC. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4911: SAFETY FIELDBUS NOT ESTABLISHED (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 18 | CIP Safety communication was not established to the default time.(Waiting for TUNID configuration) | Software configuration error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, please carry out the following according to a manual.<br>• In the case of EtherNet/IP Safety, set up TUNID (combination data of an IP address and Safety Network Number) using RSNetWorx for EtherNet/IP (setting tool by Rockwell).<br>• In the case of DeviceNet Safety, set up TUNID (combination data of a MAC ID and Safety Network Number) using RSLogix5000 (setting tool by Rockwell). |
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, please re-power on the safety PLC and the robot controller. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following.<br>• In the case of EtherNet/IP Safety, please check the connection or insertion state of cables connected to the "CN5 connector of ACP01 board" and safety PLC.<br>• In the case of DeviceNet Safety, please check the connection or insertion state of cables connected to the SST-DN4-PCIE board and safety PLC. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4912: SAFETY FIELDBUS COMM ERROR

An error occurred during communication with the safety PLC.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Value of F_Dest_Add do not match. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following F-Parameter settings.<br>• The value of F_Dest_Add that is set to the safety PLC and the CP1616 board are the same. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Value of F_Dest_Add is out of range. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following F-Parameter settings.<br>• The value of F_Dest_Add that is set to the safety PLC and the CP1616 board is in the range of 1-65534. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |

**4912: SAFETY FIELDBUS COMM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Value of F_Src_Add is out of range. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following F-Parameter settings.<br>• The value of F_Src_Add that is set to the safety PLC is in the range of 1-65534. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Value of F_WD_Time is 0. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following F-Parameter settings.<br>• The value of F_WD_Time that is set to the safety PLC is 1 or more. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Value of F_SIL is invalid. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following F-Parameter settings.<br>• The value of F_SIL that is set to the safety PLC is SIL3. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Value of F_Par_Version is invalid. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following F-Parameter settings.<br>• The value of F_Par_Version that is set to the safety PLC is 1(V2-mode). |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Value of F_Par_CRC do not match. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following F-Parameter settings.<br>• The value of F_Par_CRC that is set to the safety PLC is within the range of 0 to 65535. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |

**4912: SAFETY FIELDBUS COMM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | Setting the value of the F-Parameter is invalid. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following F-Parameter settings.<br>• The value of F_CRC_Seed that is set to the safety PLC is CRC-Seed24/32 (CRC-FP+/MNR) and the value of F_Passivation is Device/Module (no support).<br>• The value of F_CRC_Length that is set to the safety PLC is 4-Byte-CRC and the value of F_Par_Version is 1 (V2-mode). |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | Value of F_Src_Add do not match. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | Value of F_iPar_CRC is invalid. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following F-Parameter settings.<br>• The value of F_iPar_CRC that is set to the safety PLC is 1. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 12 | Value of F_CRC_Length is invalid. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following F-Parameter settings.<br>• The value of F_CRC_Length that is set to the safety PLC is 4-Byte-CRC, the value of F_Par_Version is 1 (V2-mode), and the value of F_CRC_Seed value is CRC-Seed24/32(CRC-FP+/MNR) |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | Value of F_Block_ID is invalid. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following F-Parameter settings.<br>• The value of F_Block_ID that is set to the safety PLC is 1(Can be set) and the value of F_Passivation is 1(V2-mode). |

**4912: SAFETY FIELDBUS COMM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | F-Parameter check processing was performed during the transfer of safety I/O signals to and from the safety PLC. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | PROFIsafe config processing was performed during the transfer of safety I/O signals with the safety PLC, or during initialization processing. | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | Processing of safety field bus does not start. | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, please turn the power OFF then back ON. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | Communication error of safety field bus occurred. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the connection or insertion state of cables connected to the CP1616 board and safety PLC. |
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, please re-power on the safety PLC and the robot controller. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 31 | Watchdog time error of safety field bus occurred. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the connection or insertion state of cables connected to the CP1616 board and safety PLC. |
| | | Operation mistake | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following.<br>• Safety I/O signals are not used in the standard ladder program of the safety PLC.<br>• The safety I/O signal ON/OFF status must not be changed from outside the safety PLC safety ladder program. |

**4912: SAFETY FIELDBUS COMM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, please re-power on the safety PLC and the robot controller. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32 | Passivated state. | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, it is necessary to release the passivated state.<br>Please operate the safety program with the setting tool (TIA Portal) made by SIEMENS and perform the reintegration operation. Alternatively, if the signal for forcibly performing passivation in the safety program is ON, turn it OFF. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20000 | A communication error(CH1) occurred at connection with the CIP safety.<br>A subcode shows the internal status of a CIP Safety stack. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following.<br>• In the case of EtherNet/IP Safety, please check the connection or insertion state of cables connected to the "CN5 connector of ACP01 board" and safety PLC.<br>• In the case of DeviceNet Safety, please check the connection or insertion state of cables connected to the SST-DN4-PCIE board and safety PLC. |
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, please re-power on the safety PLC and the robot controller. |
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30000 | A communication error(CH2) occurred at connection with the CIP safety.<br>A subcode shows the internal status of a CIP Safety stack. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, please check the following.<br>• In the case of EtherNet/IP Safety, please check the connection or insertion state of cables connected to the "CN5 connector of ACP01 board" and safety PLC.<br>• In the case of DeviceNet Safety, please check the connection or insertion state of cables connected to the SST-DN4-PCIE board and safety PLC. |
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, please re-power on the safety PLC and the robot controller. |

**4912: SAFETY FIELDBUS COMM ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASF01 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the ASF01 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4913: SUB SEQUENCE TASK CONTR ERROR

An error occurred in job execution process of P-PLC program.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Unused A_BANK does not exist in the prereading processing of move instruction. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Unused bank priority does not exist in the prereading processing of move instruction. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | A_BANK pointer is not set. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | A_BANK conversion could not be performed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The specified A_BANK number does not exist. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | An error occurred when system number (MSS) was obtained. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | An error occurred in RMS960 system call. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | Undefined interrupt command was received. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 23 | Job start condition is not defined. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4913: SUB SEQUENCE TASK CONTR ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 24 | An error occurred in instruction prefetch queue operation. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 26 | Intermediate code is not defined. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 29 | Instruction prereading processing has not been completed normally. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | An error occurred in job data change. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 31 | The specified sequence number at job execution start is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32 | The added area for interruption command is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 33 | System number (MSS) for interruption command is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 38 | An error occurred at start of twin synchronous operation. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 39 | An error occurred when SYNC specification was reset. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 41 | An error occurred in occupation control group setting in MOTION section. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 45 | An error occurred in path/trace control. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 47 | An error occurred when waiting for a completion of main system task (job) in SYNC specification. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4913: SUB SEQUENCE TASK CONTR ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 48 | An attempt was made to execute an instruction that could not be executed at line sequence execution. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 49 | An error occurred while obtaining the instruction information. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 80 | An exceptional error occurred in job execution process. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 100 | Main processing command is incorrect in prereading processing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 101 | Subprocessing command is incorrect in prereading processing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 102 | Prereading processing has not been completed at job execution. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 103 | A_BANK conversion has not been completed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 104 | System number (MSS) is incorrect in prereading processing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 105 | An error occurred in instruction prefetch queue operation in prereading processing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 106 | An error occurred at IES switching in prereading processing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 108 | An error occurred in prereading operation process. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4913: SUB SEQUENCE TASK CONTR ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 200 | The specified sequence number is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 201 | An attempt was made to execute an instruction that could not be executed in P-PLC program. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4914: SUB SEQUENCE(H) TASK CONTR ERROR

An error occurred in job execution process of PSTRIG instruction.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Unused A_BANK does not exist in the prereading processing of move instruction. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Unused bank priority does not exist in the prereading processing of move instruction. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | A_BANK pointer is not set. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | A_BANK conversion could not be performed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The specified A_BANK number does not exist. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 20 | An error occurred when system number (MSS) was obtained. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 21 | An error occurred in RMS960 system call. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 22 | Undefined interrupt command was received. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 23 | Job start condition is not defined. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4914: SUB SEQUENCE(H) TASK CONTR ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 24 | An error occurred in instruction prefetch queue operation. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 26 | Intermediate code is not defined. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 29 | Instruction prereading processing has not been completed normally. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 30 | An error occurred in job data change. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 31 | The specified sequence number at job execution start is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 32 | The added area for interruption command is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 33 | System number (MSS) for interruption command is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 38 | An error occurred at start of twin synchronous operation. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 39 | An error occurred when SYNC specification was reset. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 41 | An error occurred in occupation control group setting in MOTION section. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 45 | An error occurred in path/trace control. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 47 | An error occurred when waiting for a completion of main system task (job) in SYNC specification. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4914: SUB SEQUENCE(H) TASK CONTR ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 48 | An attempt was made to execute an instruction that could not be executed at line sequence execution. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 49 | An error occurred while obtaining the instruction information. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 80 | An exceptional error occurred in job execution process. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 100 | Main processing command is incorrect in prereading processing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 101 | Subprocessing command is incorrect in prereading processing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 102 | Prereading processing has not been completed at job execution. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 103 | A_BANK conversion has not been completed. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 104 | System number (MSS) is incorrect in prereading processing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 105 | An error occurred in instruction prefetch queue operation in prereading processing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 106 | An error occurred at IES switching in prereading processing. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 210 | An attempt was made to execute an instruction that could not be executed in sub sequence(H) task | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4915: PathSwitch CONTROL ERROR

An error occurred at PSTRIG instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | When PSTRIG instruction was executed, there was not PLCSTPON instruction or PLCSTPOF instruction. | Setting error | 1. Reset the alarm.<br>2. Check whether PLCSTPON instruction and PLCSTPOF instruction is registered. When unregistered, register PLCSTPON instruction and PLCSTPOF instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | When PSTRIG instruction was executed, P-PLC instruction had not been executed. | Setting error | 1. Reset the alarm.<br>2. Check whether P-PLC instruction is registered. When unregistered, register P-PLC instruction.<br>3. When PSTRIG instruction is executed, check P-PLC instruction is whether it has been executed. If it is not running, please run PSTRIG instruction after P-PLC instruction execution. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The number of PSTRIG instruction exceeds the limit in the PointPLC program. | Setting error | 1. Reset the alarm.<br>2. please reduce the number that can be set PSTRIG instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Delay control was not completed. | Setting error | 1. Reset the alarm.<br>2. Please change the teaching to be able to delay control. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | PSTRIG instruction execution result is err. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | PSTRIG instruction execution result is err. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm is complicated, please check the contents and take a measure. |
| 7 | PSTRIG instruction execution result is err. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 8 | PSTRIG instruction execution result is err. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | PSTRIG instruction execution result is err. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm is complicated, please check the contents and take a measure. |

**4915: PathSwitch CONTROL ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | PSTRIG instruction execution result is err. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 15 | The new PSTRIG was performed during PSTRIG execution. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4916: WRONG JOB EXEC OF DETACHED AXIS

The axes detachment has been set to the job control group axis to be operated.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group | Setting error | Check the following settings.<br>• [OPTION FUNCTION] - [AXES DETACHMENT] settings in maintenance mode, Cancel the detachment axis setting of the job control group. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4917: WRONG JOB EXEC OF DETACHED AXIS

The axes detachment has been set to the job control group axis to be operated.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group | Setting error | Check the following settings.<br>• [OPTION FUNCTION] - [AXES DETACHMENT] settings in maintenance mode, Cancel the detachment axis setting of the job control group. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4918: PROFINET SETTING ERROR

An error occurred in the start process of the CP1616 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 16 | Device name or IP address has not been set to CP1616 board connected with 1st PCI connector. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, please carry out the following according to a manual.<br>• Set the device name and IP address to CP1616 board by using TIA Portal (setting tool by SIEMENS).<br>• Download the project file. |
| | | CP1616 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the CP1616 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | Device name or IP address has not been set to CP1616 board connected with 2nd PCI connector. | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, please carry out the following according to a manual.<br>• Set the device name and IP address to CP1616 board by using TIA Portal (setting tool by SIEMENS).<br>• Download the project file. |
| | | CP1616 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the CP1616 board. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 116 | Firmware version of CP1616 board connected with 1st PCI connector and driver software version does not match. | CP1616 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the CP1616 board. |
| | | CP1616 board version failure | 1. Reset the alarm.<br>2. If the alarm occurs again, please request the update of CP1616 board firmware to your YASKAWA representative. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 117 | Firmware version of CP1616 board connected with 2nd PCI connector and driver software version does not match. | CP1616 board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the CP1616 board. |
| | | CP1616 board version failure | 1. Reset the alarm.<br>2. If the alarm occurs again, please request the update of CP1616 board firmware to your YASKAWA representative. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4919: SYSTEM JOB(CYCLIC) EXEC. ERROR

An error occurred at the SYSTEM JOB(CYCLIC) execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Task ID error | Software operation error occurred | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | MSS ID error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | JOB handle error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | RMS error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Job type is not SYSTEM JOB (CYCLIC/HIGH). | Setting error | Change the job type to "SYSTEM JOB(CYCLIC/HIGH)". |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | The intermediate code of the instruction that is to be executed is incorrect. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | The instruction cannot be executed in the SYSTEM JOB (CYCLIC/HIGH). | Setting error | Delete the instruction in which alarm occurred, because the instruction cannot be executed in the SYSTEM JOB(CYCLIC/HIGH). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | The reinterpretation of the instruction was ordered when executing the instruction. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 10 | The SYSTEM JOB(CYCLIC/HIGH) was going to branch to the other job. | Setting error | Delete the instruction in which alarm occurred, because The SYSTEM JOB(CYCLIC/HIGH) cannot branch to the other job. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 11 | The execution number of SYSTEM JOB(CYCLIC/HIGH) exceeded a limitation. | Setting error | Correct the job under the current limitation of execution number, because SYSTEM JOB(CYCLIC/HIGH) can no longer be executed. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**4919: SYSTEM JOB(CYCLIC) EXEC. ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 12 | The execution of SYSTEM JOB (CYCLIC/HIGH) was not finished within a time limit. | Setting error | Reduce the number of items in the SYSTEM JOB(CYCLIC/ HIGH). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 13 | The SYSTEM JOB(CYCLIC/ HIGH) was executed in the system being executed already. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 14 | The execution number of items in the SYSTEM JOB(CYCLIC/ HIGH) exceeded a limitation. | Setting error | Reduce the number of items in the SYSTEM JOB(CYCLIC/ HIGH) within the limit number(Initial setting is 300). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4920: M-SAF CONTACTOR SELF CHECK ERR

An error is detected by ASF01 board in self diagnosis process of contactor output signal to perform on a periodical basis.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>CPU1 1:SFRON1<br>CPU1 2:SFRON2<br>CPU1 3:SFRON3<br>CPU1 4:SFRON4<br>CPU2 1:SFRON1<br>CPU2 2:SFRON2<br>CPU2 3:SFRON3<br>CPU2 4:SFRON4 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• ASU03-CN222,CN223,CN224,CN225<br>• APU01-CN604<br>• Cable continuity between ASF01 board and APU unit. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | ASU03 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASU03 unit.<br>In a system where a plurality of ASU03 units are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4921: M-SAF STO SELF CHECK ERR

An error is detected by ASF01 board in self diagnosis process of STO signal to perform on a periodical basis.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>CPU1 1:STO1<br>CPU1 2:STO2<br>CPU1 3:STO3<br>CPU1 4:STO4<br>CPU2 1:STO1<br>CPU2 2:STO2<br>CPU2 3:STO3<br>CPU2 4:STO4 | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board.<br>In a system where a plurality of SDCA01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4922: M-SAF GENERAL OUT SELF CHECK ERR

An error is detected by ASF01 board in self diagnosis process of general safety output signal to perform on a periodical basis.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>CPU1 1:GSOUT1<br>CPU1 2:GSOUT2<br>CPU2 1:GSOUT1<br>CPU2 2:GSOUT2 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Cable continuity between ASF01 board and IM-YE250/5-80P terminal board. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4923: M-SAF GENERAL OUT SELF CHECK ERR2

An error is detected by ASF01 board in self diagnosis process of function safety general safety output signal to perform on a periodical basis.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>D01:XOUT01<br>D02:XOUT02<br>D03:XOUT03<br>D04:XOUT04<br>D05:XOUT05<br>D06:XOUT06<br>D07:XOUT07<br>D08:XOUT08<br>D09:XOUT09<br>D10:XOUT10<br>D11:XOUT11<br>D12:XOUT12<br>D13:XOUT13<br>D14:XOUT14<br>D15:XOUT15<br>D16:XOUT16 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Cable continuity between ASF02 board and ASU03 unit, ASF02 board. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | ASF02 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF02 board.<br>In a system where a plurality of ASF02 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | ASU03 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASU03 unit.<br>In a system where a plurality of ASU03 units are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4924: M-SAF CONTACTOR UNMATCH

Detected error by ASF01 board in self diagnosis process of contactor output signal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>CPU1 1:SFRON1<br>CPU1 2:SFRON2<br>CPU1 3:SFRON3<br>CPU1 4:SFRON4<br>CPU2 1:SFRON1<br>CPU2 2:SFRON2<br>CPU2 3:SFRON3<br>CPU2 4:SFRON4 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• ASU03-CN222,CN223,CN224,CN225<br>• APU-CN604<br>• Cable continuity between ASF01 board and APU unit. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | ASU03 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASU03 unit.<br>In a system where a plurality of ASF03 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | APU01 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the APU01 unit. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4925: M-SAF STO UNMATCH

Detected error by ASF01 board in self diagnosis process of STO signal.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>CPU1 1:STO1<br>CPU1 2:STO2<br>CPU1 3:STO3<br>CPU1 4:STO4<br>CPU2 1:STO1<br>CPU2 2:STO2<br>CPU2 3:STO3<br>CPU2 4:STO4 | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board.<br>In a system where a plurality of SDCA01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4926: M-SAF GENERAL OUTPUT UNMATCH

Detected error by ASF01 board in self diagnosis process of general safety output signal. (Machine safety signal)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>CPU1 1:GSOUT1<br>CPU1 2:GSOUT2<br>CPU2 1:GSOUT1<br>CPU2 2:GSOUT2 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Cable continuity between ASF01 board and IM-YE250/5-80P terminal board. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4927: M-SAF GENERAL OUTPUT UNMATCH2

Detected error by ASF02 board and ASU03 unit in self diagnosis process of general safety output signal. (Functional safety signal)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | The meaning of each sub code is as follows:<br>D01:XOUT01<br>D02:XOUT02<br>D03:XOUT03<br>D04:XOUT04<br>D05:XOUT05<br>D06:XOUT06<br>D07:XOUT07<br>D08:XOUT08<br>D09:XOUT09<br>D10:XOUT10<br>D11:XOUT11<br>D12:XOUT12<br>D13:XOUT13<br>D14:XOUT14<br>D15:XOUT15<br>D16:XOUT16 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Cable continuity between ASF01 board and ASF02 board, ASU03 unit. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | ASF02 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF02 board.<br>In a system where a plurality of ASF02 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |

**4927: M-SAF GENERAL OUTPUT UNMATCH2 (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | ASU03 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASU03 unit.<br>In a system where a plurality of ASU03 units are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4928: M-SAF OUTPUT SIG. SELF CHECK ERR

An error is detected by ASF01 board in self diagnosis process of function safety output signal to perform on a periodical basis.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Subcode is the signal number that detected error. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Cable continuity between ASF01 board and ASF02 board, ASU03 unit. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | ASF02 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF02 board.<br>In a system where a plurality of ASF02 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | ASU03 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASU03 unit.<br>In a system where a plurality of ASU03 units are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4929: M-SAF INPUT SIG. SELF CHECK ERR

An error is detected by ASF01 board in self diagnosis process of function safety input signal to perform on a periodical basis.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Subcode is the signal number that detected error. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• Cable continuity between ASF01 board and ASF02 board, ASU03 unit. |
| | | ASF01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF01 board.<br>In a system where a plurality of ASF01 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | ASF02 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASF02 board.<br>In a system where a plurality of ASF02 boards are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | ASU03 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASU03 unit.<br>In a system where a plurality of ASU03 units are connected, replace the board, which is connected to the signal on which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4932: REFERENCE USER FRAME ERROR

An error occurred in reference user frame.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | reference user frame not set | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• reference user frame |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | multiple reference user frame | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• reference user frame |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Incorrect control group designation | Setting error | 1. Reset the alarm.<br>2. Check the following settings.<br>• reference user frame |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4933: TIMING DELAY CONTROL IMPOSSIBLE

Failed in timing delay control.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Timing delay control was impossible | Setting error | Check the following settings.<br>• please correct the job and be able to timing delay control. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Timing exchange control was impossible | Setting error | Please review a job so that an prohibited instruction does not enter between control object steps. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4934: MotoPlus APP. RESPONSE ERROR

MotoPlus application did not respond to the messages which were sent from the system software.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | The message which was sent the last time has not been received. | Setting error | Turn the power OFF then back ON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | The message which was sent when the NEXT/BACK/TEST operation was executed. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the following settings.<br>• The MotoPlus application has been running.<br>• The MotoPlus API mpSendEventAck() that responds to system software is called in the MotoPlus application. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | The message that was sent when the job was started. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the following settings.<br>• The MotoPlus application has been running.<br>• The MotoPlus API mpSendEventAck() that responds to system software is called in the MotoPlus application. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | The message which was sent from the pendant application. | Setting error | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the following settings.<br>• The MotoPlus application has been running.<br>• The MotoPlus API mpSendEventAck() that responds to system software is called in the MotoPlus application. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4935: PointPLC EXECUTE ERROR

An error occurred at execution of the PointPLC program.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | TAG could not be executed on JUMP instruction in the PointPLC program. | Setting error | 1. Reset the alarm.<br>2. Delete the TAG of the JUMP instruction which cannot be executed in the PointPLC program. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | JUMP instruction or LABEL is wrong in the PointPLC program. | Setting error | 1. Reset the alarm.<br>2. Modify the JUMP instruction or LABEL in the PointPLC program.<br>JUMP destination in the PointPLC program will need to be set in the PointPLC program.<br>JUMP destination outside of PointPLC program will need to be set outside PointPLC program. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | TAG could not be executed on CLEAR instruction in the PointPLC program. | Setting error | 1. Reset the alarm.<br>2. Delete the TAG of the CLEAR instruction which cannot be executed in the PointPLC program. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | TAG could not be executed on CALL instruction in the PointPLC program. | Setting error | 1. Reset the alarm.<br>2. Delete the TAG of the CALL instruction which cannot be executed in the PointPLC program. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4936: LOCAL VARIABLE CONTROL ERROR

An error occurred in Local variable control.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Local variable is used in the PointPLC program. | Setting error | 1. Reset the alarm.<br>2. Modify the instruction that uses Local variable in the PointPLC program. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4937: TIMING ADJUSTMENT SETTING ERROR

Failed in control of the setting timing adjustment.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Adjustment setting is exceeds the control area of the advance or delay control. | Setting error | Correct the job so that adjustment setting is within the control area. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Timing advance control was impossible. | Setting error | Correct the job so that it does not across the instructions that can not be advance control. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Timing delay control was impossible. | Setting error | Correct the job so that it does not across the instructions that can not be delay control. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4940: MOTION COMMAND CODE ERROR (SV)

Illegal command data (parameter) is received from MOTION section.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4941: CANNOT EXECUTE MOTION CMD (SV)

An optional function was commanded to be executed while another optional function was in execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4942: AVERAGING TIME CHANGE ERR (SV)

The request to change standardization time was sent without permission.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4943: AVERAGING TIME ERROR (SERVO)

The motor instruction standardization time is out of the allowable range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4944: POSITION LOOP GAIN ERROR (SV)

The KP parameter input value is out of the allowable range.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4945: MOTION COMMAND DATA ERROR (SV)

No processing corresponds to the command code sent from MOTION section.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4946: PG POWER ON INCOMPLETE (SV)

An attempt was made to turn ON the servo while the encoder was not ready.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4947: SERVO ON MULTIPLE REQUEST (SV)

The request to turn ON the servo power supply again was sent to an axis where the servo's power was already ON.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4948: ENCODER ALARM (SERVO)

The servo ON command was executed while the encoder was in alarm status.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4949: GUN BEND MULTI CORRECT ERR (SV)

Request of gun bending correction to be executed while gun bending correction was in execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the settings for jobs. |
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4950: MOTOR GUN POS. DIFF. OVER (SV)

The deviation of the position was too large while the torque control, etc. by the motor gun was in execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | 1. Check the settings for jobs.<br>2. If this alarm occurs after the servo power cycling during work handling process under the condition where the Handling motion continue function is activated (S2C691= 1), review the threshold value (S1CxG1080 - ) as necessary. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4951: WRONG MOTOR GUN CHANGE AXIS (SV)

Gun change was executed except for gun axis.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the settings for jobs. |
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4952: WRONG MOTOR GUN FILE NO. (SERVO)

Specified number of gun change exceeds the number of gun axes controlled with SV.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the settings for jobs. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4953: ENCODER COUNTER DIFF. ERR(SV)

The difference value of the encoder exceeded the threshold value.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Reset the alarm<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>[Robot axis]<br>• Cables between encoders<br>• SDCA01-CN508<br>[External axis]<br>• Cables between encoders<br>• ADCA01-CN534,535,536 |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4954: REALTIME STATUS S/R ERROR (SV)

An error occurred in real-time data transmission of SVSPOT Executing bit sent from MOTION.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4955: AVERAGING DATA ERROR (SERVO)

The illegal data are stored in the averaging buffer. (The lowest digit shows the axis No.)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4956: AVERAGING SUM ERROR (SERVO)

The sum value in the averaging buffer is incorrect. (The lowest digit shows the axis No.)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4957: AVERAGING STATUS ERR (SERVO)

The "empty" status of averaging buffer is incorrect. (The lowest digit shows the axis No.)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4958: HIGH RESOLUTION PRM UNDEFINED(SV)

Overload detected parameter( a high resolution) was set to "0", though overload-related parameter flag is ON .

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4959: WRONG GRP CHANGE AXIS (SERVO)

An uncontrolled axis was specified at group change instruction execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4960: BELT SNAP DETECT PRM ERROR (SV)

The observer and collision detection function are set disabled although the broken belt detection function is set enabled.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4961: SERIAL ENC OSCILL DETECTED (SV)

Vibration was detected in the serial encoder. (The lowest digit shows the axis No.)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4962: BRAKE LOCK ERROR (SERVO)

The mechanical brake remains locked although the base block is released. (The lowest digit shows the axis No.)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4963: BRAKE RELEASE ERROR (SERVO)

The mechanical brake is not locked although the base block turns ON. (The lowest digit shows the axis No.)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4964: CONST.SPD MEASURE MULTI REQ (SV)

While the velocity torque sampling was in execution, another request of sampling was sent.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4965: DIN SIGNAL SPECIFIC. ERROR (SV)

DIN signals are used for plural function.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the settings for jobs. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4966: DB RESIST NOT INSTALLED(SV)

The DB resistor is not mounted on the amplifier.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN531, CN532, CN533 |
| | | DB resist board failure | 1. Reset the alarm.<br>2. The DB resist may be fired. Replace the DB resist. |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4967: RATED CURRENT AND MAXIMUM CURRENT HIGH RESOLUTION PRM UNDEFINED(SERVO)

When the rating current and maximum current is zero, zero is set for the parameter of the rating current and the maximum current (high resolution).

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4968: POSITIONING(DISTANCE) ERROR

An error occurred at Positioning(distance specification) execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Step end stopping timeout of Positioning(distance specification) was detected. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | PL control is not allowed when Positioning(distance specification) is enabled. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 3 | Arithmetic error occurred when calculating consideration of servo delay for the Positioning (distance specification). | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 4969: CONVTR POWER ERR(FREQUENCY)(SV)

Frequency of primary power supply applied to the converter is incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the converter in which the alarm occurred | Primary power supply failure | Confirm that appropriate primary voltage is applied to the braker.<br>Prescribed voltage: 200V (+10% to 15%) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• APU01-CN601, CN602, CN604<br>• SDCA01-CN507<br>• ASF01-CN205<br>• Converter-CN551, CN561 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4970: CONVTR POWER ERR(PHASE SEQ.)(SV)

The phase sequence of primary power applied to the converter is incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the converter in which the alarm occurred | Primary power supply failure | Confirm that appropriate primary voltage is applied to the braker.<br>Prescribed voltage: 200V (+10% to 15%) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• APU01-CN601, CN602, CN604<br>• SDCA01-CN507<br>• ASF01-CN205<br>• Converter-CN551, CN561 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4971: CONVTR POWER ERR(PEAK)(SV)

Peak value of primary power for entered converter is incorrect.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the converter in which the alarm occurred | Primary power supply failure | Confirm that appropriate primary voltage is applied to the braker.<br>Prescribed voltage: 200V (+10% to 15%) |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following cables and connectors.<br>• APU01-CN601, CN602, CN604<br>• SDCA01-CN507<br>• ASF01-CN205<br>• Converter-CN551, CN561 |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4972: CONVTR REGENERATE OVERLOAD(SV)

The converter regenerative is overloaded.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the converter in which the alarm occurred | Primary power supply failure | Check the primary voltage for the converter. |
| | | Setting error | Check the following settings;<br>• Tool data<br>• JOB<br>• Workpiece<br>• JOB speed<br>• Acceleration and deceleration (ACC, DEC) |
| | | Module failure (Regenerative resistor) | 1. Disconnect the converter CN557 to check if there is no cable disconnection.<br>2. If disconnected, replace the regenerative resistor. |
| | | Module failure(converter) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4973: POSITION ERROR(COLLISION DETECT)

The position deviation reached the limit value after the manipulator stopped by the collision detection.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Confirm the following settings;<br>• Tool information<br>• Workpiece |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4974: POSITION ERROR(START LIFT)

The moving volume when executing start lift reached the limit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4975: WRONG START LIFT AXIS(SERVO)

Incorrect axis is specified when executing start lift.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Software operation error occurred | 1. Reset the alarm.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4976: GUN SEARCH DETECT RANGE OVER

The distance between fixed gun tip and movable gun tip exceeded the allowable limit while executing correction operation in the GUN TEACH POSITION CORRECT Mode.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the following settings.<br>• Home position of gun axis.<br>• "The pulse-stroke converter" in the gun condition file.<br>• The value of the wear correction. |
| | | Effect of external force | 1. Check that no objects exist between workpiece and gun.<br>2. Check the lost tip. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4977: GUN SEARCH POS ERROR

The detected position where the gun tip hits the welded target exceeded the allowable limit while executing correction operation in the GUN TEACH POSITION CORRECT Mode.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Setting error | Check the following settings.<br>• Home position of gun axis.<br>• "The pulse-stroke converter" in the gun condition file.<br>• The value of the wear correction for movable gun tip. |
| | | Effect of external force | 1. Check the amount of the gap between workpiece position and the teaching position.<br>2. Check the lost tip for movable gun. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4978: UNIV.IN/OUT SIGNAL BROKEN(SERVO)

Universal input/output cable between SDCA01 boards is broken or its connector is disconnected.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Universal input/output 1 between SDCA01 boards is broken. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• ASF01-CN204<br>• CNBX connector between SDCA01 and ASF01<br>3. If the alarm occurs again, check if the cable is disconnected. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Universal output 1for SV#1 (SV#2) is inconsistent with Universal input 1 for SV#2 (SV#1). | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• ASF01-CN204<br>• CNBX connector between SDCA01 and ASF01 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Universal output 1for SV#1 (SV#2) is inconsistent with Universal input 1 for SV#2 (SV#1). | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• ASF01-CN204<br>• CNBX connector between SDCA01 and ASF01 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Universal input/output 2 between SDCA01 boards is broken or its connector (CN204) is disconnected. | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• ASF01-CN204<br>• CNBX connector between SDCA01 and ASF01 |

**4978: UNIV.IN/OUT SIGNAL BROKEN(SERVO) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Universal output 2 for SV#1 (SV#2) is inconsistent with Universal input 2 for SV#2 (SV#1). | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• ASF01-CN204<br>• CNBX connector between SDCA01 and ASF01 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Universal output 2 for SV#1 (SV#2) is inconsistent with Universal input 2 for SV#2 (SV#1). | Setting error | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• ASF01-CN204<br>• CNBX connector between SDCA01 and ASF01 |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4980: DESTINATION PULSE LIMIT

The manipulator exceeded its motion limit (pulse limit) in the negative (-) direction and the positive (+) direction in the motion target position.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the position setting for the step (move instruction) where the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4981: DEST PULSE MECHANICAL LIMIT

The manipulator exceeded its motion limit (mechanical limit) in the negative (-) and the positive (+) direction at the motion target point.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the position setting for the step (move instruction) where the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4982: DEST MECHANICAL INTRF

The manipulator link was interfered with the motion target position.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the position setting for the step (move instruction) where the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4983: DEST MECHANICAL INTRF

The manipulator link was interfered with the motion target position.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the position setting for the step (move instruction) where the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4984: DESTINATION SELF-INTERFERENCE

The manipulator link was interfered with the motion target position.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Check the position setting for the step (move instruction) where the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4985: TEACH LINE CORD JOG MOVE DISABLE

An error occurred when teach line cord jog move was in execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Correct the attitude of the tool and the ground are out of vertical, and execute teach line cord jog move. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4986: TEACH LINE CORD JOG MOVC DISABLE

An error occurred when teach line cord jog move was in execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Execute FWD/BWD/TEST RUN operation, and execute teach line cord jog move. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4987: WELD LINE CORD SHIFT MOV DISABLE

An error occurred when weld line coord shift was in execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | IMPOSSIBLE MOTION(Y direction) | Setting error | Correct the teaching positions so that the attitude of the tool and the ground are out of vertical. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | Shifted position data could not be converted. | Setting error | The manipulator cannot move to the target shift position. Change shift volume or modify the teaching position. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 3 | Failed to move to the shifted position. | Setting error | The manipulator cannot move to the shifted position. Correct the teaching positions so that the attitude of the tool and the ground are out of vertical. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Failed to pass through the shifted position. | Setting error | The manipulator cannot pass through to the shifted position. Change the teaching position. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Direction of travel error | Setting error | The manipulator cannot pass through to the direction of travel. Change the teaching position. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Shift start interval same position error | Setting error | For shift start interval is same position, it can not shift. Change the teaching position. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | Shift start interval shortage error | Setting error | For shift start interval is short, it can not shift. Change the teaching position. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4988: WELD LINE COORD SHIFT DISABLE

An error occurred when weld line coord shift was in execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | PREFLOW not executed | Setting error | 1. When executing weld line coordinate shift operation, start the JOB with one step before ARCON instruction.<br>2. When teaching the JOB for weldline coordinate shift operation, set the ARCON instruction in the JOB in which the weld line coordinate shift operation is to be performed. (Don't set ARCON instruction in the JOB which is target for CALL instruction without setting any weld start teaching point. )<br>To use ARCON instruction without weld start point in the CALL destination JOB, disable the weld line coordinated shift function in the weld start condition file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4989: DEFECTIVE OPERATION VELOCITY

Robot can not move in the working speed that is specified in the speed limit by the functional safety.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group | Setting error | Please do not take effect safety of the speed limit by the functional safety during the interval of ARCON. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4990: MOTION ERROR (SINGULAR POSTURE)

Cannot perform interpolation to the specified posture.
It may occur when the interpolation to the target position where the manipulator cannot keep posture is performed.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Control group | Setting error | Check the following settings.<br>• Change the teaching orientation.<br>[Tube built-in wrist type models]<br>When a flange is parallel to a XY plane of the robot coordinated system, teach the flange so that it is inclined more than 0.01 degrees. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4991: IO MODULE PROC OVERTIME

The procedure of the accessing to I/O module did not finish in the defined period.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 16 | The procedure of the accessing to I/O module which is connected with 1st PCI connector did not finish in the defined period. | Setting error | Check the following settings.<br>• When SST-DN4 is used; maximum waiting time for accessible to PCI board<br>• PCI slot number in which each PCI board is mounted<br>• I/O module settings in maintenance mode |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the corresponding I/O module |
| | | Board failure(I/O module) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCI board) |
| | | AIF board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 17 | The procedure of the accessing to I/O module which is connected with 2nd PCI connector did not finish in the defined period. | Setting error | Check the following settings.<br>• When SST-DN4 is used; maximum waiting time for accessible to PCI board<br>• PCI slot number in which each PCI board is mounted<br>• I/O module settings in maintenance mode |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the corresponding I/O module |
| | | Board failure(I/O module) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCI board) |
| | | AIF board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 18 | The procedure of the accessing to I/O module which is connected with 3rd PCI connector did not finish in the defined period. | Setting error | Check the following settings.<br>• When SST-DN4 is used; maximum waiting time for accessible to PCI board<br>• PCI slot number in which each PCI board is mounted<br>• I/O module settings in maintenance mode |

**4991: IO MODULE PROC OVERTIME (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the corresponding I/O module |
| | | Board failure(I/O module) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCI board) |
| | | AIF board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 19 | The procedure of the accessing to I/O module which is connected with 4th PCI connector did not finish in the defined period. | Setting error | Check the following settings.<br>• When SST-DN4 is used; maximum waiting time for accessible to PCI board<br>• PCI slot number in which each PCI board is mounted<br>• I/O module settings in maintenance mode |
| | | Connection failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, check the connection and insertion of the following connector.<br>• The PCI connector of the corresponding I/O module |
| | | Board failure(I/O module) | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.<br>• The corresponding I/O module (PCI board) |
| | | AIF board failure | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, replace the AIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the AIF01 board, and then load the CMOS.BIN saved before alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4992: INTERNAL ROBOT POS.UNMATCH

Position data in the manipulator does not match home position data.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred. | Setting error | Try (1) if using the functional safety function.<br>Try (2) if you are not using the functional safety function, and the alarm occurs after replacing the robot, the controller or loading CMOS.BIN.<br>Try (3) if you are not using the functional safety function, and this alarm occurs after replacing the motor.<br>1. In SAFETY MODE, calibrate the home position on the "HOME POSITION" window. Then, perform "READBACK" and "WRITE".<br>2. In the MANAGEMENT MODE, select "CLEAR ROBOT DATA" under menu "DATA" on the "HOME POSITION" window, then clear home position data. Turn the power OFF then back ON.<br>3. In the MANAGEMENT MODE, select "HOME POSITION" window and press the function menu "DATA" to select "RECORD TO ROBOT" which appears only when an alarm occurs. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4993: POWER REGENERATIVE OVERLOAD(CV)

POWER REGENERATIVE UNIT in converter is overloading.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred. | Primary power failure | Check the primary power supply voltage in converter. |
| | | Setting error | Check the following settings;<br>• Tool data<br>• JOB<br>• Workpiece<br>• JOB speed<br>• Acceleration and deceleration (ACC, DEC) |
| | | Module failure(converter) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4994: CHOPPER OVERLOAD(CONVERTER)

Chopper circuit in converter is overloading.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred. | Primary power failure | Check the primary power supply voltage in converter. |
| | | Setting error | Check the following settings;<br>• Tool data<br>• JOB<br>• Workpiece<br>• JOB speed<br>• Acceleration and deceleration (ACC, DEC) |
| | | Module failure(converter) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4995: RUSH LIMIT RESISTOR OVERLOAD(CONVERTER)

Rush limit resistor in converter is overloading.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred. | Setting error | Check the following settings;<br>• The number of SERVO ON in a certain time |
| | | Module failure(converter) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4996: FAN STOP(CONVERTER)

Fan in converter stopped.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred. | Module failure(converter) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the converter. |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replace the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4998: M-SAF SYSTEM ERROR2

An error occurred in a process of Machine-Safety system.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | If the sub-code is 1nxx,the following is shown:<br>A feedback diagnosis error in ASF01 board number n, target signal xx(following)<br>00:BON<br>01:MCON<br>02-05:HWBB1-HWBB4<br>06-07:GSOUT1-GSOUT2<br>08-11:SFRON1-SFRON4<br>12-27:XOUT01-XOUT16 | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the following:<br>• Target signal and its feedback signal. |
| | If the sub-code is 200n,the following is shown:<br>ASU03 unit connection error in unit number n. | ASU03 unit failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the ASU03 unit.<br>In a system where a plurality of ASU03 units are connected, replace the unit which the alarm occurred. |
| | If the sub-code is 210n,the following is shown:<br>ASF02 board connection error in board number n. | ASF02 board failure | 1. Check the ASF02 board connection.<br>In a system where a plurality of ASF02 boards are connected, check the board which the alarm occurred.<br>2. Reset the alarm.<br>3. If the alarm occurs again, replace the ASF02 board.<br>In a system where a plurality of ASF02 boards are connected, replace the board which the alarm occurred. |
| | If the sub-code is 210n,the following is shown:<br>ASU03 unit connection error in unit number n. | ASU03 unit failure | 1. Check the ASU03 unit connection.<br>In a system where a plurality of ASU03 units are connected, check the unit which the alarm occurred.<br>2. Reset the alarm.<br>3. If the alarm occurs again, replace the ASU03 unit.<br>In a system where a plurality of ASU03 units are connected, replace the unit which the alarm occurred. |
| | If the sub-code is 22nn,the following is shown:<br>ASU03 unit connection error in unit number nn(bit). | ASU03 unit failure | 1. Check the ASU03 unit connection.<br>In a system where a plurality of ASU03 units are connected, check the unit which the alarm occurred.<br>2. Reset the alarm.<br>3. If the alarm occurs again, replace the ASU03 unit.<br>In a system where a plurality of ASU03 units are connected, replace the unit which the alarm occurred. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 4999: ENCODER USER DATA SUM ERROR

This alarm occurs if there is an error of user data in the encoder memory.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Signifies the axis in which the alarm occurred | Module failure(encoder) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the encoder. |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>[Robot axis]<br>• Cable between encoders<br>• SDCA01-CN508<br>[External axis]<br>• Cable between encoders<br>• SDCA01-CN534, CN535, CN536 |
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

# 1.2 Alarm Number (6000 to 6999)

## ◆ 6000: SYSTEM ERROR2(PFL)

Process is not performed properly on the ASF04 board.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 70 | Invalid of Axis Speed Monitor Condition File | Setting error | 1. Turn the power OFF then back ON.<br>2. Confirm the Axis Speed Monitor Condition File No. 32 is valid.<br>3. If the alarm occurs again, replace the ASF04 board. Save the CMOS.BIN before replacement to be safe. |
| | | Other | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 6001: MUTING ERROR(PFL)

PFL Speed limitation is invalid during PFL muting operation.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Operation mistake | 1. Reset alarm.<br>2. Confirm the robot is crashed.<br>3. If PFL function is muted, confirm the safety and resume the robot. |

## ◆ 6002: NEAR SINGULARITY(PFL)

On the singularity, 2 or more axes movement is restricted. If 2 or more axes movement is detected on the singularity, this alarm is occurred.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Operation mistake | 1. Reset alarm.<br>2. If the alarm occurs again, confirm if 2 or more axes are moved near singularity in collaborative operation.<br>3. Confirm the robot is crashed.<br>4. Confirm the safety and resume the robot. |

## ◆ 6003: UNDEFINED SPEED LIMIT(PFL)

Speed limitation is required for collaborative operation. If speed limitation is not set, this alarm is occurred.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Confirm the setting of speed limit condition file no.31 and 32 in accordance with the manual.<br>2. Reset alarm.<br>3. Confirm if collision occurs.<br>4. Confirm the safety and resume the robot. |

## ◆ 6004: ESCAPE FROM CLAMPING ERROR(PFL)

When clamping is happened, robot moves the any direction which direction decrease the power automatically.
If power is increased greatly during escaping, this alarm is occurred.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Operation mistake | 1. Reset alarm.<br>2. If collision occured, confirm the safety and escape from collision.<br>3. Confirm if setting of Tool files is correct.<br>4. Confirm if torque sensor home position is deviated. If it is deviated, set home position again following Collaborative Operation Instructions.<br>5. If the alarm occurs again, Turn the power OFF then back ON.<br>6. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| | | Near Singularity | If the robot's posture when the alarm occured is near singularity, take the following measures.<br>1. Reset alarm.<br>2. Confirm if external force of TCP exceeds external force limits in posture when the alarm occured. If it exceeds, it may be improved by changing to a movement that does not pass the posture.<br>3. Confirm if external force of TCP exceeds external force limits during operation.<br>4. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 6005: EXTERNAL FORCE ERROR(PFL)

Large external force is detected continuously.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code:alarm occurred axis or direction<br>1-8: Axis number<br>9-12: TCP(Resultant,X,Y,Z) | Setting error | 1. Reset alarm.<br>2. If collision occured, confirm the safety and escape from crash.<br>3. Confirm if setting of Tool files is correct.<br>4. Confirm the torque sensor home position. And, if home position is diverged, set correct position again following Collaborative Operation Instructions.<br>5. After home position setting, confirm the movement before operation start. |
| | | Other | 1. Turn the power OFF then back ON.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 6007: DEFECTIVE TIP DRESS CONDITION FILE

An error occurred in the tip dress condition file.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Tip dress condition file number | Setting error | Set a positive value for the dress length of the tip dress condition file. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6008: TRQ SENSOR OVERLOAD

This alarm occurs if a torque that is higher than the rated torque is applied to the torque sensor due to a collision of the manipulator or in other situations, or the failure is detected in the torque sensor.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Indicates the axis in which the alarm occurred. | Torque sensor failure | 1. If an external force is applied to the manipulator due to a collision with the surroundings or other causes, move the manipulator according to the manual.<br>2. Turn the power OFF then back ON.<br>3. If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 6010: CONTROLLER SYNCHRONIZATION ERROR

An error occurred in inter-controller synchronization execution.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Master group designation error | Setting error | 1. Reset the alarm.<br>2. Confirm that the specified control group is master group. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6011: AVOIDANCE FUNC. PARAMETER ERROR

Parameter for avoidance function is wrong.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Subcode: Signifies the error type and the targeted D variable.<br>last 3 digit: D variable's number<br>first digit: erroer types<br>Meaning of error type is as follows.<br>None:Parameter range error<br>1:Setting of two D variables is wrong.<br>When setting of two D variable is wrong, the younger one is signified as the targeted D variable. | Software operation error occurred | 1. Reset the alarm after turn off Servo Power.<br>2. Check the and correct the D variable settings. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6012: HAND GUIDING PARAMETER ERROR

Parameter for hund guiding is wrong

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Subcode: Signifies the error type and the targeted D variable.<br>last 3 digit: D variable's number<br>first digit: erroer types<br>Meaning of error type is as follows.<br>None:Parameter range error<br>1:Setting of two D variables is wrong.<br>When setting of two D variable is wrong, the younger one is signified as the targeted D variable. | Software operation error occurred | 1. Reset the alarm.<br>2. Check the and correct the D variable settings. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6013: CANNOT START HAND GUIDING(JOINT)

External force is exceeding the allowable value when starting hand guiding.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | subcode:The axis that exceeds the allowable value is indicated by a bit.<br>D01:S<br>D02:L<br>D03:U<br>D04:R<br>D05:B<br>D06:T | Operation mistake | 1. Reset the alarm.<br>2. Reduce the force for the hand guiding when starting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6014: CANNOT START HAND GUIDING(XYZ-T)

External force is exceeding the allowable value when starting hand guiding.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | subcode:The direction or the axis that exceeds the allowable value is indicated by a bit.<br>D01:X<br>D02:Y<br>D03:Z<br>D04:T | Operation mistake | 1. Reset the alarm.<br>2. Reduce the force for the hand guiding when starting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6015: CANNOT START HAND GUIDING(RBT)

External force is exceeding the allowable value when starting hand guiding.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | subcode:The axis that exceeds the allowable value is indicated by a bit.<br>D01:S<br>D02:L<br>D03:U<br>D04:R<br>D05:B<br>D06:T | Operation mistake | 1. Reset the alarm.<br>2. Reduce the force for the hand guiding when starting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6016: AVOIDANCE FUNC.RECOVER ERR(IMOV)

Avoidance function has executed during IMOV.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Operation mistake | 1. Reset the alarm.<br>2. Do not execute avoidance function during IMOV. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6017: HAND GUIDING SUSPEND

Hand guiding function has force-quit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 16 | Servo power has been turn OFF during hand guiding. | Operation mistake | Reset the alarm. |
| 17 | Hold has requested during hand guiding. | Operation mistake | Reset the alarm. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6018: ESCAPE FROM CLAMPING SUSPEND

Escape from clamping function has force-quit.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 16 | Servo power has been turn OFF during escape from clamping. | Operation mistake | Reset the alarm. |
| 17 | Hold has requested during escape from clamping. | Operation mistake | Reset the alarm. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6019: DIRECT TEACHING FAILED

Cannot edit the JOB.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 16 | Cannot edit the prohibited JOB. | Operation mistake | Reset the alarm. |
| 64 | Cannot edit JOB because edit screen is not active. | Operation mistake | Reset the alarm. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6021: WORK CALIBRATION DATA ERROR

An error occurred in work calibration.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Incorrect number of teaching points for work calibration | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure, ladder editor line index). |
| 2 | Incorrect designation of the occupation control group for PC program work calibration data | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure, ladder editor line index). |
| 3 | Incorrect designation of the enabling control group for PC program work calibration data | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure, ladder editor line index). |
| 4 | Incorrect designation of the control group for PC program work calibration data | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure, ladder editor line index). |
| 5 | Incorrect designation of the occupation control group for controller program calibration data | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure, ladder editor line index). |
| 6 | Incorrect designation of the enabling control group for controller program calibration data | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure, ladder editor line index). |
| 7 | Incorrect designation of the control group for controller program calibration data | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure, ladder editor line index). |
| 8 | Among taught points in the PC work calibration program, two or three points are on the same point. | Setting error | Teach the data for work calibration so that each point is different. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 9 | Among taught points in the controller work calibration program, two or three points are on the same point. | Setting error | Teach the data for work calibration so that each point is different. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

**6021: WORK CALIBRATION DATA ERROR (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 10 | The number of robots in the PC work calibration program is two or more. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure, ladder editor line index). |
| 11 | The number of robots in the controller work calibration program is two or more. | Setting error | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure, ladder editor line index). |

## ◆ 6022: EXTERNAL FORCE ESTIMATION ERROR

External force is exceeding the allowable value when starting controller.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | subcode:The axis that exceeds the allowable value is indicated by a bit.<br>D01:S<br>D02:L<br>D03:U<br>D04:R<br>D05:B<br>D06:T | Sensor error | 1. Check if any external force has been applied to the manipulator, such as colliding with the surroundings.<br>2. Reset the alarm, and confirm the tool file settings(Weight, Unit of centroid position, +-).<br>3. Confirm the torque sensor home position. And, if home position is diverged, set correct position. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6023: AVOIDANCE FUNC. ERR(CONV. SYNC)

Avoidance function has used during conveyor synchronized operation.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Operation mistake | 1. Reset the alarm.<br>2. Do not use the avoidance function during conveyor synchronized operation. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6024: PENDANT COMMUNICATION ERROR

A communication error occurred between the controller and the programming pendant.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | • | For the cause and remedy, refer to chapter 13 "Trouble Shooting When Alarm Is Not Displayed" of the YRC1000 MAINTENANCE MANUAL. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6025: SYNC TARGET CONTROLLER ERR

An error has occurred on the synchronization target controller.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Software operation error occurred | Resolve the error of the synchronization target controller. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6029: DUPLICATED SEALING GUN NUMBER

The gun numbers duplicated.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: The duplicated gun number | Setting error | Check the settings for gun numbers. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6030: OUT OF SEALING INPUT RANGE

Sealing condition setting value out of range was specified.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Please specify a value within the range. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6031: HIGH SPEED ROBOT DATA COMM ERROR

Communication processing error with Trumpf laser welding machine

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 0 | IP address for Trumpf i-PFO is not set correctly. | Setting error | Check the setting of the IP address for Trumpf i-PFO. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 1 | Port number for Trumpf i-PFO is not set correctly. | Setting error | Check the setting of the Port number for Trumpf i-PFO. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2 | SENTYPE for Trumpf i-PFO is not set correctly. | Setting error | Check the setting of the SENTYPE for Trumpf i-PFO. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

### 6031: HIGH SPEED ROBOT DATA COMM ERROR (continued)

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3 | Communication direction for Trumpf i-PFO is not set correctly. | Setting error | Check the setting of the Communication direction for Trumpf i-PFO. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 4 | Error counter output M register for Trumpf i-PFO is not set correctly. | Setting error | Check the setting of the Error counter output M register for Trumpf i-PFO. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 5 | Communication error threshold for Trumpf i-PFO is not set correctly. | Setting error | Check the setting of the Communication error threshold for Trumpf i-PFO. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 6 | Continuous writing check for Trumpf i-PFO is not set correctly. | Setting error | Check the setting of the Continuous writing check for Trumpf i-PFO. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 7 | No transmission request counter output M register for Trumpf i-PFO is not set correctly. | Setting error | Check the setting of the No transmission request counter output M register for Trumpf i-PFO. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 100 | LAN Interface Setting is not set correctly. | Setting error | Check the setting of the LAN interface. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |
| 2000 | Trumpf i-PFO communication error over the threshold has detected. | Setting error | Check the communication settings for Trumpf i-PFO is correct. Check the MotoPlus application for Trumpf i-PFO is correct. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6036: ROBOT I/F CONNECTION ERROR

An error of communication with the host device using the YERCProfile has occurred.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | 1. Check the settings of Ethernet for the robot controller.<br>2. Check whether the host device's power is ON.<br>3. Check the settings of IP address for the host device. |
| | | Connection failure | 1. Reset the alarm.<br>2. After above operation implementation, If the alarm occurs again, check the connection and inserting state of between the host device and the ACP01-LAN connector. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6037: MANUAL OPERATION FAILED

An error occurred in manual operation.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 3 | Do not tried to manually operate multiple robots in a coordinated control job. | Operation mistake | 1. Reset the alarm.<br>2. Set R1 and R2 to jobs in different control groups. |
| | | Other | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| | System error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 6038: EXTERNAL FORCE CONTROL FAILED

An error occurred in external force control operation.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Failed to read the command of SKILLSND. | Setting error | 1. Confirm and fix the command of SKILLSND.<br>2. Confirm and fix the delimiter character between command name and argument. |
| | | Other | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 2 | Failed to read the argument of SKILL command. | Setting error | 1. This command requires the argument. Set the argument into SKILL command.<br>2. Confirm and fix the command name of SKILLSND.<br>3. Confirm and fix the delimiter character between command name and argument. |

**6038: EXTERNAL FORCE CONTROL FAILED (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Other | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 3 | Too many arguments of SKILL command. | Setting error | 1. Decrease the number of arguments of SKILL command. |
| | | Other | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 4 | Out of range of argument value. | Setting error | 1. Confirm and fix the value of arguments of SKILL command. |
| | | Other | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| 5 | Wrong combination about arguments. | Setting error | 1. Confirm and fix the pair of arguments of SKILL command. |
| | | Other | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |
| | System error | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure). |

## ◆ 6039: GAS PRESS CHECK SETTING ERROR

An error occurred when registering criteria of gas pressure check.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | Setting error | Do not execute any job when registering criteria of gas pressure check. |
| | | Software operation error occurred | Reset the alarm, and then try again. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6040: DEFECTIVE GUN SPRT PRESS FILE

An error occurred in the gun support axis pressure file.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Gun support axis pressure file number | Setting error | Match the number of "END WAIT" in the gun support axis pressure file, and the number of "Welding Conditions(WTM)" in the instruction. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6041: WEAR DETECTION ERROR

An error occurred in wear detection.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | The gun is designated as wear detection prohibited. | Setting error | Verify that the specified gun and wear detection action is a wear detectable combination. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6042: PRESSURE EROOR (AMP)

A pressure error was detected at the amplifier current detector.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: Gun number | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the connection and inserting state of the following cables and connectors.<br>• SDCA01-CN501, CN531, CN532, CN533<br>• CPS01-CN157<br>• Inverter board-CN571, CN573-579,<br>• SDB(External axis SERVO PACK)-CN591,594<br>• Motor power line |
| | | Connection failure | 1. Reset the alarm.<br>2. If the alarm occurs again, check the following cables.<br>• External axis cables<br>• Supply cables |
| | | Module failure (Regenerative resistor) | Module failure(Regenerative resistor) Check if there is no ground fault in the regeneration resistors. |
| | | GND wiring failure | 1. Reset the alarm.<br>2. If the alarm repeats, check the voltage of the primary power and GND. If the voltage amount on each RST varies more than 100V, review the GND setting. |
| | | Module failure (amplifier) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the amplifier. |
| | | Module failure(motor) | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the motor. |

**6042: PRESSURE EROOR (AMP) (continued)**

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | | SDCA01 board failure | 1. Reset the alarm.<br>2. If the alarm occurs again, replace the SDCA01 board. Save the CMOS.BIN before replacing the board to be safe. |
| | | Setting error | Check the parameter setting value. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6044: 1-STEP BACK EXECUTION ERROR

Cannot execute BWD operation from the current position.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code: System number | Operation mistake | Cannot execute BWD operation from the current position. Reset the alarm, and then move the manipulator to safety place in teach mode. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6045: CONTROLLER SYNC INTERFERENCE

The distance between the interference monitoring axes has exceeded the threshold value.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| | Sub Code; Group and file number | Setting error | Check the following settings.<br>• Change the step position at which the alarm occurs so that it does not exceed the threshold value.<br>• Modify the csync interference setting. |
| | | Other | If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure). |

## ◆ 6048: BACKWARD EXECUTION ERROR

Failed to execute the BWD operetion.

| Sub Code | Meaning | Cause | Remedy |
|---|---|---|---|
| 1 | Backward operation is not possible for the current job. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure, ladder editor line index). |
| 2 | Could not find information about the job called by the instruction. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure, ladder editor line index). |
| 3 | The information of the job called by the instruction was abnormal. | Software operation error occurred | 1. Reset the alarm, and then try again.<br>2. If the alarm occurs again, save the CMOS.BIN, and then contact your Yaskawa representative about occurrence status (operating procedure, ladder editor line index). |

YRC1000

# ALARM CODES
# (MINOR ALARMS)



YASKAWA

YASKAWA ELECTRIC CORPORATION

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