YASKAWA

DX100
MAINTENANCE MANUAL

Procedures described in this maintenance manual should be carried out by the person who took the maintenance-relevant trainings offered by YASKAWA.
Upon receipt of the product and prior to initial operation, read these instructions thoroughly, and retain for future reference.

MOTOMAN INSTRUCTIONS

MOTOMAN-□□□ INSTRUCTIONS
DX100 INSTRUCTIONS
DX100 OPERATOR'S MANUAL
DX100 MAINTENANCE MANUAL

The DX100 operator's manuals above correspond to specific usage.
Be sure to use the appropriate manual.

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)*

The Americas YASKAWA Representative

- 24-hour Telephone Number: **(937) 847-3200**
  Use for urgent or emergency needs for technical support, service and/or replacement parts
- Routine Technical Inquiries: *techsupport@motoman.com*
  Allow up to 36 hours for response

YASKAWA ELECTRIC CORPORATION

YASKAWA

Part Number: 155492-1CD
Revision: 27

MANUAL NO. RE-CHO-A108 27

MANDATORY

- **This manual explains maintenance procedures of the DX100 system. Read this manual carefully and be sure to understand its contents before handling the DX100.**
- **General items related to safety are listed in Section 1: Safety of the DX100 INSTRUCTIONS. To ensure correct and safe operation, carefully read the DX100 Instructions before reading this manual.**

CAUTION

- **Some drawings in this manual are shown with the protective covers or shields removed for clarity. Be sure all covers and shields are replaced before operating this product.**
- **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.**
- **YASKAWA is not responsible for incidents arising from unauthorized modification of its products. Unauthorized modification voids your product's warranty.**

Notes for Safe Operation

Read this manual carefully before maintenance or inspection of the DX100.

In this manual, the Notes for Safe Operation are classified as "DANGER", "WARNING", "CAUTION", "MANDATORY", or "PROHIBITED".

DANGER	**Indicates an imminent hazardous situation which, if not avoided, could result in death or serious injury to personnel.**
WARNING	**Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to personnel.**
CAUTION	**Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury to personnel and damage to equipment. It may also be used to alert against unsafe practices.**
MANDATORY	**Always be sure to follow explicitly the items listed under this heading.**
PROHIBITED	**Must never be performed.**

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

NOTE

To ensure safe and efficient operation at all times, be sure to follow all instructions, even if not designated as "DANGER", "WARNING" and "CAUTION".

WARNING

- **Before operating the manipulator, check that servo power is turned off when the emergency stop buttons on the front door of the DX 100 and programing pendant are pressed.**
  When the servo power is turned off, the SERVO ON LED on the programing pendant is turned off.

Injury or damage to machinery may result if the emergency stop circuit cannot stop the manipulator during an emergency. The manipulator should not be used if the emergency stop buttons do not function.

Fig. : Emergency Stop Button

- **Once the emergency stop button is released, clear the cell of all items which could interfere with the operation of the manipulator.**
  Then turn the servo power ON.

Injury may result from unintentional or unexpected manipulator motion.

Fig. : Release of EM

- **Observe the following precautions when performing teaching operations within the P-point maximum envelope of the manipulator:**
  - **Be sure to use a lockout device to the safeguarding when going inside.**
    Also, display the sign that the operation is being performed inside the safeguarding and make sure no one closes the safeguarding.
  - **View the manipulator from the front whenever possible.**
  - **Always follow the predetermined operating procedure.**
  - **Keep in mind the emergency response measures against the manipulator's unexpected motion toward the operator.**
  - **Ensure that you have a safe place to retreat in case of emergency.**

Improper or unintended manipulator operation may result in injury.

- **Confirm that no person is present in the P-point maximum envelope of the manipulator and that you are in a safe location before:**
  - **Turning on the power for the DX100.**
  - **Moving the manipulator with the programming pendant.**
  - **Running the system in the check mode.**
  - **Performing automatic operations.**

Injury may result if anyone enters the working envelope of the manipulator during operation. Always press an emergency stop button immediately if there are problems.

The emergency stop button is located on the right of the front door of the DX 100 and programing pendant.

CAUTION

- **Perform the following inspection procedures prior to conducting manipulator teaching. If problems are found, repair them immediately, and be sure that all other necessary processing has been performed.**

  -Check for problems in manipulator movement.
  -Check for damage to insulation and sheathing of external wires.

- **Always return the programming pendant to the hook on the DX100 cabinet after use.**

The programming pendant can be damaged if it is left in the P-point maximum envelope of the manipulator, on the floor, or near fixtures.

- **Read and understand the Explanation of Warning Labels in the DX100 Instructions before operating the manipulator.**

Definition of Terms Used Often in This Manual

The MOTOMAN manipulator is the YASKAWA industrial robot product.

The MOTOMAN usually consists of the controller, the programming pendant, and supply cables.

In this manual, the equipment is designated as follows.

Equipment	Manual Designation
DX100 Controller	DX100
DX100 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
Programmin g Pendant	**Character Keys**	**The keys which have characters printed on them are denoted with [ ]. ex. [ENTER]**
	Symbol Keys	**The keys which have a symbol printed on them are not denoted with [ ] but depicted with a small picture. ex. page key** **The cursor key is an exception, and a picture is not shown.**
	Axis Keys Numeric Keys	**“Axis Keys” and “Numeric Keys” are generic names for the keys for axis operation and number input.**
	Keys pressed simultane-ously	**When two keys are to be pressed simultaneously, the keys are shown with a “+” sign between them, ex. [SHIFT]+[COORD]**
	Displays	**The menu displayed in the program-ming pendant is denoted with { }. ex. {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.

Explanation of Warning Labels

DANGER

- **The label described below is attached to the manipulator.**

Observe the precautions on the warning labels.

Failure to observe this caution may result in injury or damage to equipment.

Fig. : Warning Labels

WARNING Label A:

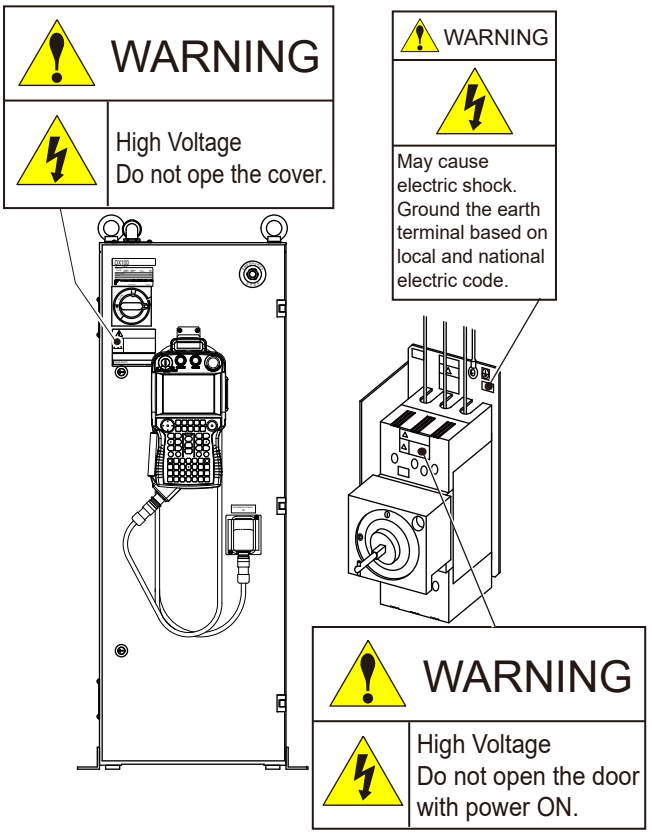
WARNING Label B:

- **The following warning labels are attached to DX100.**

Observe the precautions on the warning labels.

Failure to observe this warning may result in injury or damage to equipment.

Fig. : Location of Warning Labels



1 Equipment Configuration 1-1
1.1 Arrangement of Units and Circuit Boards 1-1
1.1.1 Arrangement 1-1
1.1.1.1 Small-Capacity DX100 Controller 1-1
1.1.1.2 Medium and Large-Capacity DX100 Controller 1-2
1.2 Power Flow 1-5
1.3 Signal Flow 1-6
2 Security System 2-1
2.1 Protection Through Security Mode Settings 2-1
2.1.1 Security Mode 2-1
2.1.1.1 Changing the Security Mode 2-6
2.1.2 User ID 2-8
2.1.2.1 Changing a User ID 2-8
3 Inspections 3-1
3.1 Regular Inspections 3-1
3.2 DX100 Inspections 3-2
3.2.1 Checking if the Doors are Firmly Closed 3-2
3.2.2 Checking for Gaps or Damage in the Sealed Construction Section 3-2
3.3 Cooling Fan Inspections 3-3
3.4 Emergency Stop Button Inspections 3-5
3.5 Enable Switch Inspections 3-5
3.6 Battery Inspections 3-6
3.7 Power Supply Voltage Confirmation 3-6
3.8 Open Phase Check 3-7
4 Preparation before Replacing Parts 4-1
4.1 Creating a Check Program 4-3
5 Replacing Parts 5-1
5.1 Replacing DX100 Parts 5-1
5.1.1 Replacing Parts of the CPU Unit 5-2
5.1.1.1 Replacing the Battery 5-3
5.1.1.2 Replacing the Control Circuit Board (JANCD-YCP01-E) 5-3
5.1.1.3 Replacing the YPS Unit (JZNC-YPS01-E) 5-7
5.1.1.4 Replacing the Robot I/F Circuit Board (JZNCD-YIF01-1E) 5-8
5.1.1.5 Replacing the I/O Unit (JZNC-YIU0o-E) 5-10
5.1.1.6 Replacing the Power Supply Contactor Unit (JZRCR-YPU01-□) 5-11

5.1.1.7 Replacing the Brake Board (JZRCR-YBK01-□E) 5-12
5.1.1.8 Replacing the Machine Safety Unit (JZNC-YSU01-1E) 5-13
5.1.2 Replacing the SERVOPACK 5-14
5.1.3 Replacing the Converter 5-17
5.1.4 Replacing the Basic Axis Control Circuit Board (SRDA-EAXA01A) 5-21
5.1.5 Checking and Replacing Fuses 5-22
5.1.5.1 Power Supply Contactor Unit 5-22
5.1.5.2 I/O Unit 5-23
5.1.5.3 Machine Safety Unit 5-24
5.1.5.4 Brake Board 5-25
5.1.5.5 Major Axes Control Circuit Board 5-26
5.1.6 Interior Circulation Fan 5-27
5.1.6.1 Replacing the Interior Circulation Fan 5-27
5.1.6.2 Replacing the Backside Duct Fan 5-29
5.2 DX100 Parts List 5-30
5.3 Supplied Parts List 5-33
5.4 Recommended Spare Parts 5-34
6 Operations After Replacing Parts 6-1
6.1 Home Position Calibration 6-2
6.1.1 Home Position Calibration 6-2
6.1.2 Calibrating Operation 6-4
6.1.2.1 Registering All Axes at One Time 6-4
6.1.2.2 Registering Individual Axes 6-5
6.1.2.3 Changing the Absolute Data 6-7
6.1.2.4 Clearing Absolute Data 6-7
6.1.3 Manipulator Home Position 6-9
6.2 Position Deviation Check Using the Check Program 6-10
6.3 Checking of the Check Program 6-11
6.3.1 Motion of the Check Program 6-11
6.3.2 Checking of the Check Program 6-11
6.3.3 Home Position Data Correction 6-12
6.4 Setting the Second Home Position (Check Point) 6-13
6.4.1 Purpose of Position Check Operation 6-15
6.4.2 Procedure for the Second Home Position Setting (Check Point) 6-17
6.4.3 Procedure after the Alarm 6-18
7 System Diagnosis 7-1
7.1 System Version 7-1

7.2 Manipulator Model 7-1

7.3 Input/Output Status 7-2

7.3.1 Universal Input 7-2
7.3.1.1 Universal Input Window 7-2
7.3.1.2 Universal Input Simple Window 7-2

7.3.2 Universal Output 7-3
7.3.2.1 Universal Output Window 7-3
7.3.2.2 Universal Output Simple Window 7-3
7.3.2.3 Modifying the Output Status 7-4

7.3.3 Specific Input 7-5
7.3.3.1 Specific Input Window 7-5
7.3.3.2 Specific Input Simple Window 7-5

7.3.4 Specific Output 7-6
7.3.4.1 Specific Output Window 7-6
7.3.4.2 Specific Output Simple Window 7-6

7.3.5 RIN Input 7-7
7.3.5.1 RIN Input Window 7-7

7.3.6 Signal Number Search 7-7
7.3.6.1 Direct Search on the Universal/Specified Input/Output Window 7-8
7.3.6.2 Search from the Menu 7-9

7.3.7 Relay Number Search 7-10
7.3.7.1 Direct Search on the Universal/Specified Input/Output Window 7-10
7.3.7.2 Search from the Menu 7-11

7.3.8 Modification of the Signal Name 7-13
7.3.8.1 Direct Modification on the Universal/Specified Input/Output Window 7-13
7.3.8.2 Modification from the Menu 7-13

7.4 System Monitoring Time Display 7-15

7.4.1 System Monitoring Time Display Window 7-15

7.4.2 Individual Window of the System Monitoring Time Display 7-16

7.4.3 Clearing the System Monitoring Time Display 7-17

7.5 Alarm History 7-18

7.5.1 Alarm History Window 7-18

7.5.2 Clearing the Alarm History 7-19

7.6 I/O Message History 7-20

7.6.1 I/O Message History Window 7-20
7.6.1.1 Search 7-20

7.6.2 Clearing the I/O Message History 7-21

7.7 Position Data When Power is Turned ON/OFF 7-22

7.7.1 Power ON/OFF Position Window 7-22

7.8 Current Position 7-23
7.8.1 Current Position Window 7-23
7.9 Servo Monitoring 7-24
7.9.1 Servo Monitor Window 7-24
7.9.1.1 Changing the Monitor Items 7-24
7.9.1.2 Clearing Maximum Torque Data 7-26
7.10 The State of the Robot Drop Tolerance Error 7-27
7.10.1 Check the Robot Drop Tolerance 7-27
7.10.2 Display of the Drop Value Number Window 7-27
7.10.3 Display of the Drop Value Check Window 7-28
7.10.4 Clear the Times of the Drop Value Number 7-29

8 Alarm 8-1
8.1 Outline of Alarm 8-1
8.2 Alarm Display 8-2
8.2.1 Displaying and Releasing Alarm 8-2
8.2.1.1 Releasing Alarms 8-2
8.2.2 Special Alarm Display 8-3
8.3 Display of Alarm Details 8-5
8.3.1 Parameter 8-5
8.3.2 Display of Alarm Detail Window 8-5
8.3.3 Transition of Alarm Detail Window 8-7
8.4 Alarm Message List 8-8

9 Error 9-1
9.1 Error Message 9-1
9.1.1 System and General Operation 9-2
9.1.2 Editing 9-6
9.1.3 Job Defined Data 9-7
9.1.4 External Memory Equipment 9-11
9.1.5 Concurrent I/O 9-16
9.1.6 Maintenance Mode 9-18
9.2 Particular Error Message 9-20
9.2.1 Message 9-20
9.2.1.1 Fatal Error 9-20
9.2.1.2 Application Transaction Error 9-20
9.2.1.3 Other Errors 9-21

9.2.2 When the Error is Indicated 9-22
9.2.2.1 Fatal Error 9-22
9.2.2.2 Application Transaction Error 9-22
9.2.2.3 Other Errors 9-22

10 LED Indicator on Circuit Board 10-1

10.1 LED Indicator on YCP 01 Circuit Board 10-2

10.2 LED Indicator on Robot I/F Circuit Board 10-3

10.3 7 SEG-LED Indicator 10-4

10.3.0.1 7 SEG-LED Indicator Status (1-digit indication) of Each Unit at Error Occurrence 10-6

10.3.0.2 7 SEG-LED Indicator Status (4 digit-indication) of Each Unit at Error Occurrence 10-8

11 Trouble Shooting When Alarm is not Displayed 11-1

1 Equipment Configuration

The DX100 is comprised of individual units and modules (circuit boards). Malfunctioning components can generally be easily repaired after a failure by replacing a unit or a module. This section explains the configuration of the DX100 equipment.

1.1 Arrangement of Units and Circuit Boards

1.1.1 Arrangement

The arrangements of units and circuit boards in small-capacity, medium-capacity, and large-capacity DX100s are shown.

1.1.1.1 Small-Capacity DX100 Controller

Fig. 1-1: Configuration of Small Capacity DX100 -A Controller (Standard)

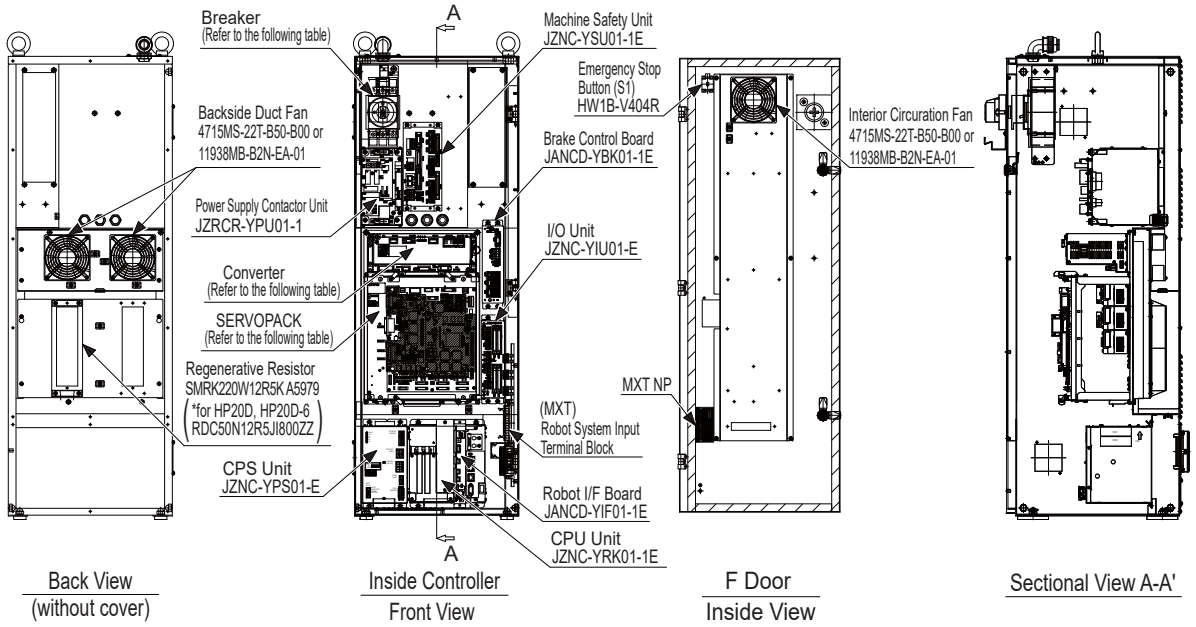


Table 1-1: Configuration for Small Capacity

Model / Type	DX100	SERVOPACK (Converter integrated)	Breaker	Power Supply Contactor Unit
MH5 MH5S MH5L MH5LS	ERDR-MH00005-A00	JZRCR-YSV01-11	NF32-SW 3P 15A	JZRCR-YPU01-1
MH6 MH6S MH6-10	ERDR-MH00006-A00	JZRCR-YSV02-11	NF32-SW 3P 15A	JZRCR-YPU01-1
MA1400	ERDR-MA01400-A00	JZRCR-YSV02-11	NF32-SW 3P 15A	JZRCR-YPU01-1
MPK2	ERDR-MPK0002-A03	JZRCR-YSV03-11	NF32-SW 3P 15A	JZRCR-YPU01-1
VA1400	ERDR-VA01400-A00	JZRCR-YSV02-31	NF32-SW 3P 15A	JZRCR-YPU01-1
MA1900	ERDR-MA01900-A00	JZRCR-YSV03-11	NF32-SW 3P 15A	JZRCR-YPU01-1
HP20D HP20D-6 HP20RD	ERDR-HP0020D-A00	JZRCR-YSV03-11	NF32-SW 3P 15A	JZRCR-YPU01-1

1.1.1.2 Medium and Large-Capacity DX100 Controller

Fig. 1-2: Configuration of Medium and Large Capacity DX100 -A Controller (Standard)

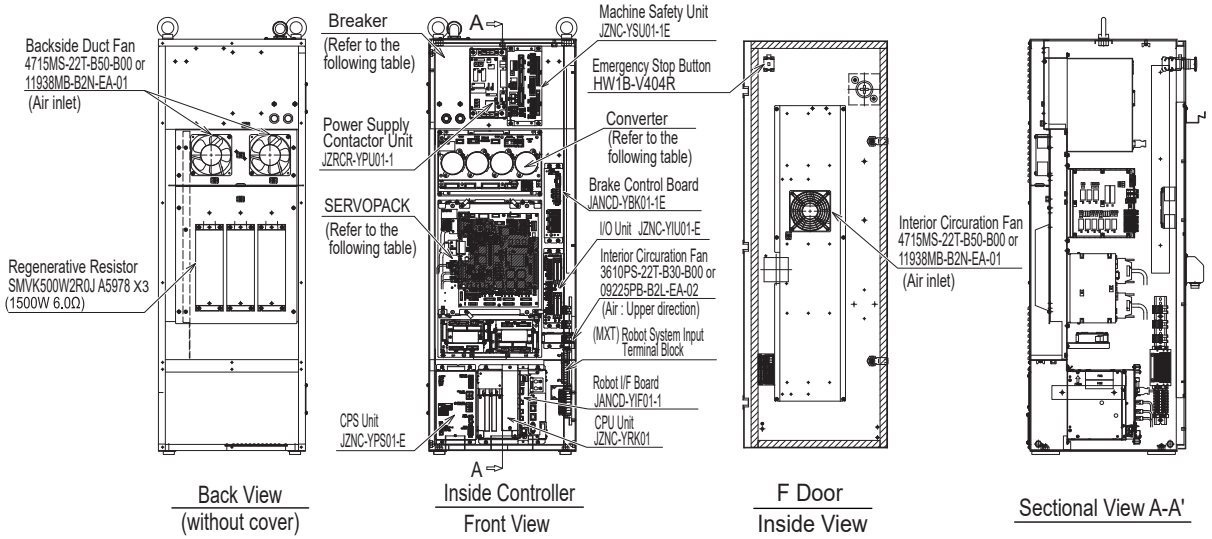


Table 1-2: Configuration for Medium and Large Capacity

Model / Type	DX100	SERVOPACK	Converter	Breaker	Power Supply Contactor Unit
Medium Capacity					
MH50 MH50-20 MH50-35	ERDR-MH00050-A00	JZRCR-YSV04-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
MS80 MS80W	ERDR-MS00080-A00	JZRCR-YSV05-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
VS50	ERDR-VS00050-A00	JZRCR-YSV05-41	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
SIA50D	ERDR-SIA050D-A00	JZRCR-YSV05-41	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
SIA30D	ERDR-SIA030D-A00	JZRCR-YSV04-21	SRDA-COA30A01A-E	NF32-SW 3P 15A	JZRCR-YPU01-1
MA1800	ERDR-MA01800-A00	JZRCR-YSV08-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
UP50SD	ERDR-UP050SD-A00	JZRCR-YSV04-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
MPL80	ERDR-MPL0080-A00	JZRCR-YSV04-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
MH80	ERDR-MH00080-A00	JZRCR-YSV05-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
MC2000	ERDR-MC2000-A00	JZRCR-YSV06-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
DX1350D	ERDR-DX1350D-A00	JZRCR-YSV04-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
Large Capacity					
ES165D ES165D-100 ES165RD	ERDR-ES0165D-A00	JZRCR-YSV06-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
ES200D ES200RD-120 ES200RD	ERDR-ES0200D-A00	JZRCR-YSV06-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
HP165D	ERDR-HP0165D-A00	JZRCR-YSV06-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
UP350D UP350D-200 UP350D-500	ERDR-UP0350D-A00	JZRCR-YSV07-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1

Fig. 1-3: Configuration for Large Capacity A-Type (Standard) (Backside-Mounted Regenerative Resistor Specification)

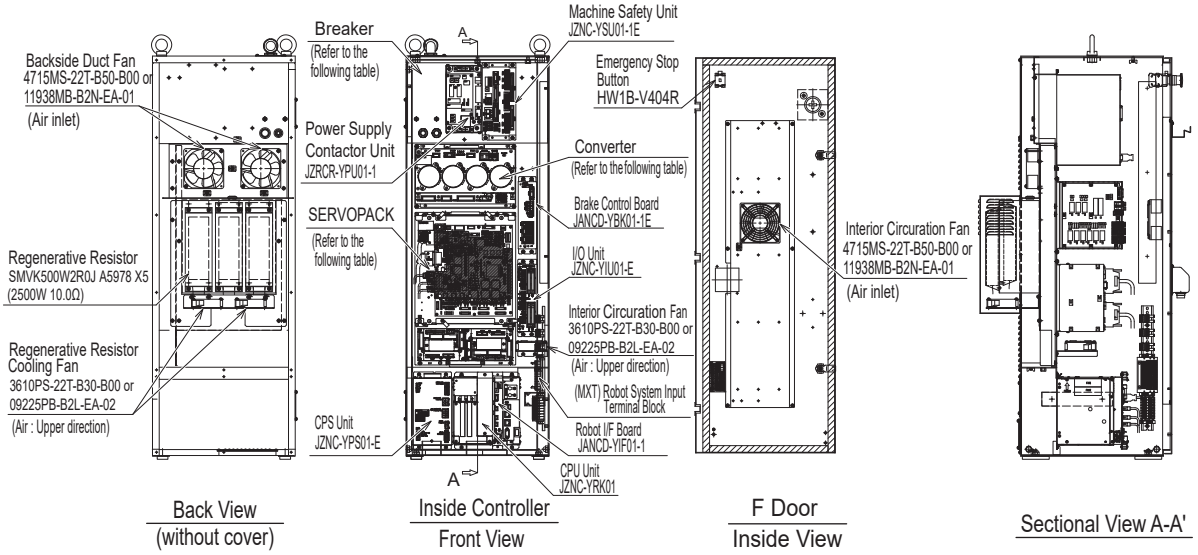


Table 1-3: Configuration for Large Capacity (Backside-Mounted Regenerative Resistor Specification*)*

Model / Type	DX100	SERVOPACK	Converter	Breaker	Power Supply Contactor Unit
MPL100	ERDR-MPL0100-A00	JZRCR-YSV06-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
MPL160	ERDR-MPL0160-A00	JZRCR-YSV06-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
MPL300	ERDR-MPL0300-A00	JZRCR-YSV06-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
MPL500	ERDR-MPL0500-A00	JZRCR-YSV06-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
ES280D	ERDR-ES0280D-A00	JZRCR-YSV06-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
ES280D-230	ERDR-ES0280D-A00	JZRCR-YSV06-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
MPK50	ERDR-MPK0050-A00	JZRCR-YSV05-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
MH165	ERDR-MH00165-A00	JZRCR-YSV06-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
MH200	ERDR-MH00200-A00	JZRCR-YSV06-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
MH215	ERDR-MH00215-A00	JZRCR-YSV07-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
MH250	ERDR-MH00250-A00	JZRCR-YSV07-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
MS120	ERDR-MS00120-A00	JZRCR-YSV07-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1
UP120ED-165	ERDR-UP120ED-A00	JZRCR-YSV06-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01-1

*Fig. 1-4: Configuration for Large Capacity A-Type (Standard) (*Ceiling-Mounted Regenerative Resistor Specification)

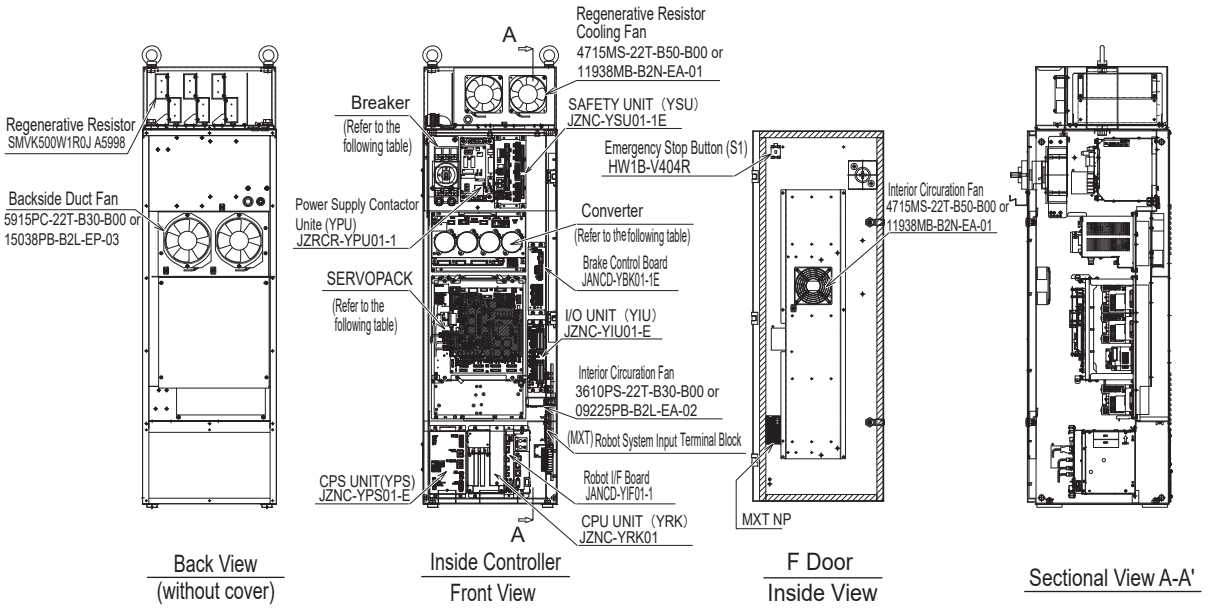
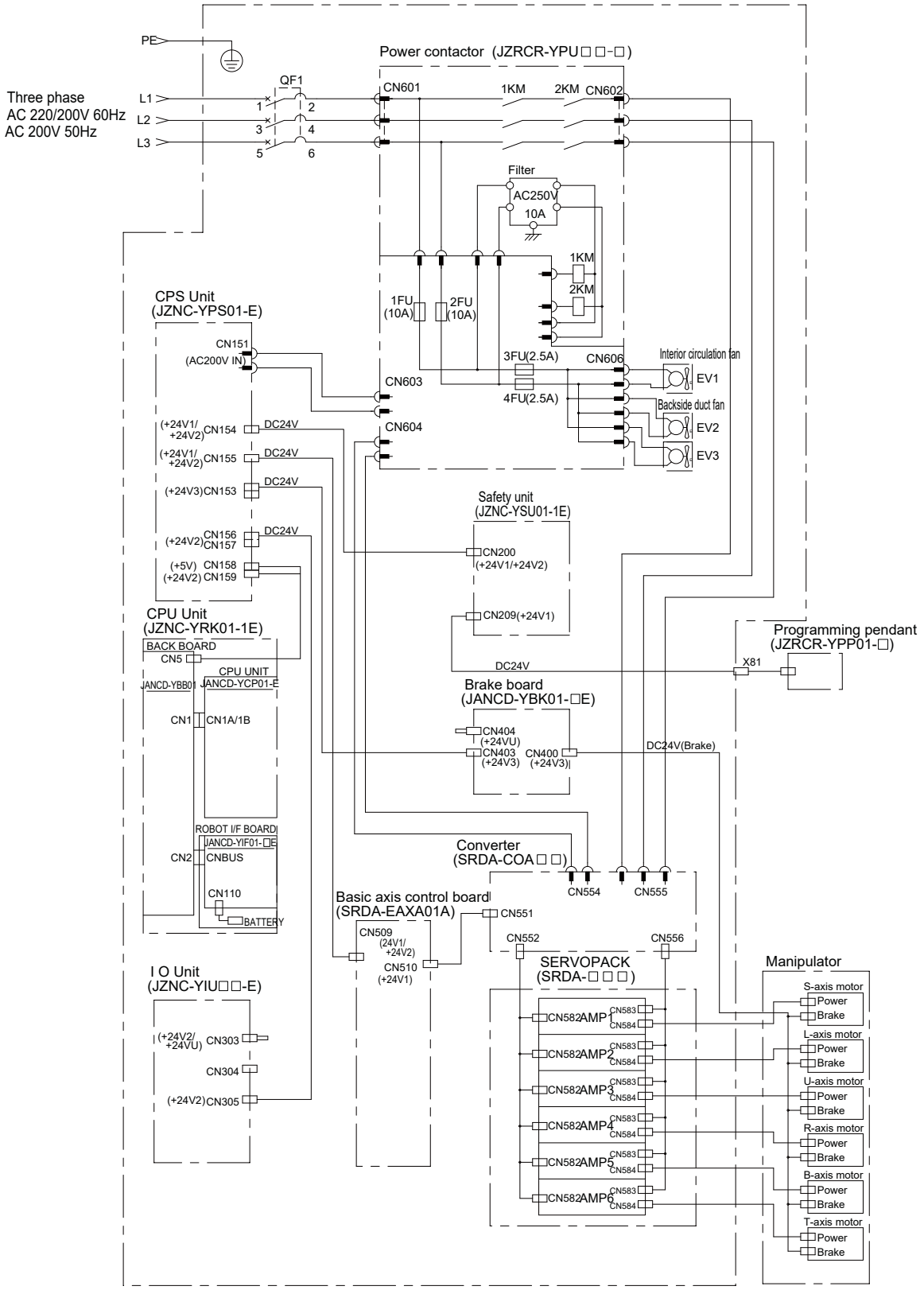


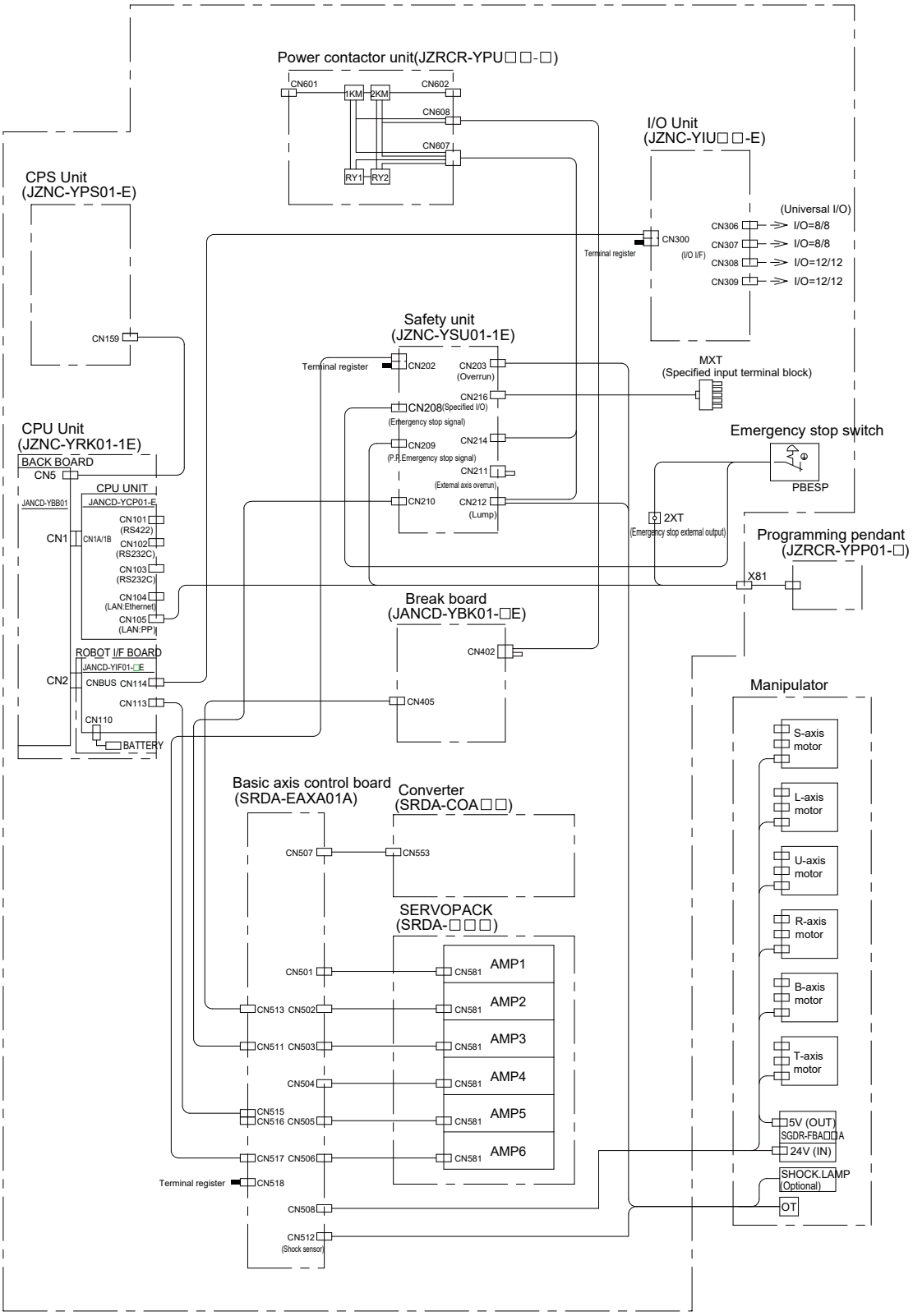
*Table 1-4: Configuration for Large Capacity (*Ceiling-Mounted Regenerative Resistor Specification*)*

Model / Type	DX100	SERVOPACK	Converter	Breaker	Power Supply Contactor Unit
EPH130D	ERDR-EPH130D-A00	JZRCR-YSV07-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01C-1
EPH130RLD	ERDR-PH13RLD-A00	JZRCR-YSV07-11	SRDA-COA30A01A-E	NF32-SW 3P 30A	JZRCR-YPU01C-1

1.2 Power Flow



1.3 Signal Flow



2 Security System

2.1 Protection Through Security Mode Settings

The DX100 modes setting are protected by a security system. The system allows operation and modification of settings according to operator clearance. Be sure operators have the correct level of training for each level to which they are granted access.

2.1.1 Security Mode

There are three security modes. Editing mode and management mode require a user ID. The user ID consists of numbers and letters, and contains no less than 4 and no more than 8 characters. (Significant numbers and signs: “0 to 9”, “-”, “.”.

Table 2-1: Security Mode Descriptions

Security Mode	Explanation
Operation Mode	This mode allows basic operation of the robot (stopping, starting, etc.) for people operating the robot work on the line.
Editing Mode	This mode allows the operator to teach and edit jobs and robot settings.
Management Mode	This mode allows those authorized to set up and maintain robot system: parameters, system time and modifying user IDs.

Table 2-2: Menu & Security Mode (Sheet 1 of 4)

Main Menu	Sub Menu	Allowed Security Mode	
		DISPLAY	EDIT
JOB	JOB	Operation	Edit
	SELECT JOB	Operation	Operation
	CREATE NEW JOB[1)]	Edit	Edit
	MASTER JOB	Operation	Edit
	JOB CAPACITY	Operation	-
	RES. START (JOB)[1)]	Edit	Edit
	RES. STATUS[2)]	Operation	-
	CYCLE	Operation	Operation
VARIABLE	BYTE	Operation	Edit
	INTEGER	Operation	Edit
	DOUBLE	Operation	Edit
	REAL	Operation	Edit
	STRING	Operation	Edit
	POSITION (ROBOT)	Operation	Edit
	POSITION (BASE)	Operation	Edit
	POSITION (ST)	Operation	Edit
	LOCAL VARIABLE	Operation	-
IN/OUT	EXTERNAL INPUT	Operation	Edit
	EXTERNAL OUTPUT	Operation	Edit
	UNIVERSAL INPUT	Operation	Operation
	UNIVERSAL OUTPUT	Operation	Operation
	SPECIFIC INPUT	Operation	-
	SPECIFIC OUTPUT	Operation	-
	RIN	Operation	-
	CPRIN	Operation	-
	REGISTER	Operation	Management
	AUXILIARY RELAY	Operation	-
	CONTROL INPUT	Operation	-
	PSEUDO INPUT SIG	Operation	Management
	NETWORK INPUT	Operation	-
	NETWORK OUTPUT	Operation	-
	ANALOG OUTPUT	Operation	-
	SV POWER STATUS	Operation	-
	LADDER PROGRAM	Management	Management
	I/O ALARM	Management	Management
	I/O MESSAGE	Management	Management

Table 2-2: Menu & Security Mode (Sheet 2 of 4)

Main Menu	Sub Menu	Allowed Security Mode	
		DISPLAY	EDIT
ROBOT	CURRENT POSITION	Operation	-
	COMMAND POSITION	Operation	-
	SERVO MONITOR	Management	-
	WORK HOME POS	Operation	Edit
	SECOND HOME POS	Operation	Edit
	DROP AMOUNT	Management	Management
	POWER ON/OFF POS	Operation	-
	TOOL	Edit	Edit
	INTERFERENCE	Management	Management
	SHOCK SENS LEVEL	Operation	Edit
	USER COORDINATE	Edit	Edit
	HOME POSITION	Management	Management
	MANIPULATOR TYPE	Management	-
	ANALOG MONITOR	Management	Management
	OVERRUN&S-SENSOR[1)]	Edit	Edit
	LIMIT RELEASE[1)]	Edit	Edit
	ARM CONTROL[1)]	Management	Management
	SHIFT VALUE	Operation	-
SYSTEM INFO	VERSION	Operation	-
	MONITORING TIME	Operation	Management
	ALARM HISTORY	Operation	Management
	I/O MSG HISTORY	Operation	Management
	SECURITY	Operation	Operation
EX.MEMORY	LOAD	Edit	-
	SAVE	Operation	-
	VERIFY	Operation	-
	DELETE	Operation	-
	DEVICE	Operation	Operation
	FOLDER	Edit	Management
	INITIALIZE[1)]	Operation	-

Table 2-2: Menu & Security Mode (Sheet 3 of 4)

Main Menu	Sub Menu	Allowed Security Mode	
		DISPLAY	EDIT
PARAMETER	S1CxG	Management	Management
	S2C	Management	Management
	S3C	Management	Management
	S4C	Management	Management
	A1P	Management	Management
	A2P	Management	Management
	A3P	Management	Management
	A4P	Management	Management
	A5P	Management	Management
	A6P	Management	Management
	A7P	Management	Management
	A8P	Management	Management
	RS	Management	Management
	S1E	Management	Management
	S2E	Management	Management
	S3E	Management	Management
	S4E	Management	Management
	S5E	Management	Management
	S6E	Management	Management
	S7E	Management	Management
	S8E	Management	Management
SETUP	TEACHING COND.	Edit	Edit
	OPERATE COND.	Management	Management
	OPERATE ENABLE	Management	Management
	FUNCTION ENABLE	Management	Management
	JOG COND.	Management	Management
	PLAYBACK COND.	Management	Management
	FUNCTION COND.	Management	Management
	DATE/TIME	Management	Management
	GRP COMBINATION[2)]	Management	Management
	RESERVE JOB NAME	Edit	Edit
	USER ID	Edit	Edit
	SET SPEED	Management	Management
	KEY ALLOCATION	Management	Management
	JOG KEY ALLOC.	Edit	Management
	RES. START (CNCT)	Management	Management
	AUTO BACK SET	Management	Management
	WRONG DATA LOG	Edit	Management
	ENERGY SAVING FUNCTION	Edit	Management
DISPLAY SETUP	CHANGE FONT	Operation	Operation
	CHANGE BUTTON	Operation	Operation
	INITIALIZE LAYOUT	Operation	Operation
	CHANGE WINDOW PATTERN	Operation	Operation

Table 2-2: Menu & Security Mode (Sheet 4 of 4)

Main Menu	Sub Menu	Allowed Security Mode	
		DISPLAY	EDIT
ARC WELDING	ARC START COND.	Operation	Edit
	ARC END COND.	Operation	Edit
	ARC AUX COND.	Operation	Edit
	POWER SOURCE COND.	Operation	Edit
	ARC WELD DIAG.	Operation	Edit
	WEAVING	Operation	Edit
	ARC MONITOR	Operation	Edit
	ARC MONITOR (SAMPL)	Operation	-
HANDLING	HANDLING DIAGNOSIS	Operation	Edit
SPOT WELDING	WELD DIAGNOSIS	Operation	Edit
	I/O ALLOCATION	Management	Management
	GUN CONDITION	Management	Management
	SPOT POWER SOURCE COND.	Management	Management
	APPLICATION CONDITION SETTING	Management	Management
SPOT WELDING (MOTOR GUN)	WELD DIAGNOSIS	Operation	Edit
	GUN PRESSURE	Edit	Edit
	PRESSURE	Edit	Edit
	I/O ALLOCATION	Management	Management
	GUN CONDITION	Management	Management
	CLEARANCE SETTING	Operation	Edit
	SPOT POWER SOURCE COND.	Management	Management
	TIP INSTALLATION	Operation	Management
	APPLICATION SETTING	Management	Management
GENERAL	WEAVING	Operation	Edit
	GENERAL DIAG.	Operation	Edit
COMMON TO ALL APPLICATIONS	I/O VARIABLE CUSTOMIZE	Operation	Operation

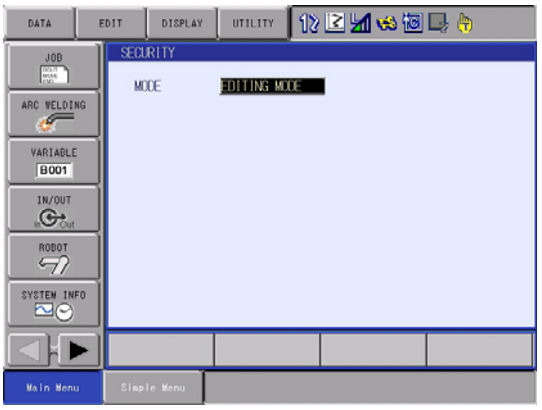
1 Displayed in the teach mode only.
2 Displayed in the play mode only.

2.1.1.1 Changing the Security Mode

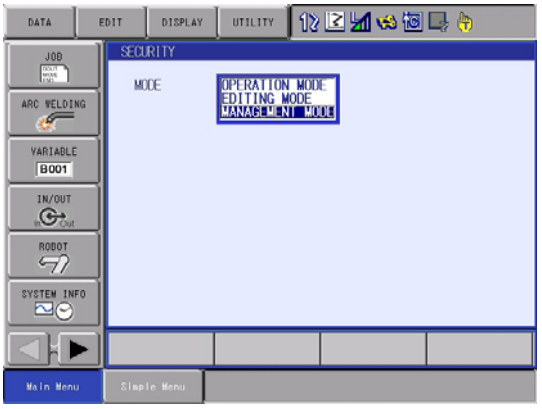
1. Select {SYSTEM INFO} under the main menu.
   – The sub menu appears.

   – Note: Icons for the main menu such as arc welding system differ depending on the system being used.

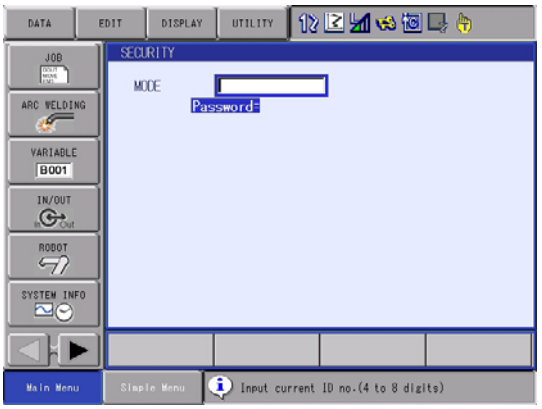
2. Select {SECURITY}.
   – The selection window of security mode appears.



3. Press [SELECT] and select "SECURITY MODE."



4. Input the user ID.
   – The user ID input window appears.



SUPPLE -MENT

At the factory, the following below user ID number is preset.

• Editing Mode:[00000000]

Management Mode:[99999999]

5. Press [ENTER].
   – The input user ID is compared with the user ID of the selected security mode. When the correct user ID is entered, the security mode is changed.

2.1.2 User ID

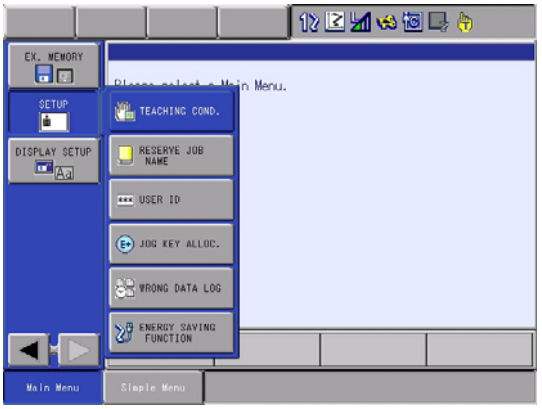
User ID is requested when Editing Mode or Management Mode is operated.

User ID must be between 4 characters and 8, and they must be numbers and symbols. (“0 to 9”,“-” and “.”)

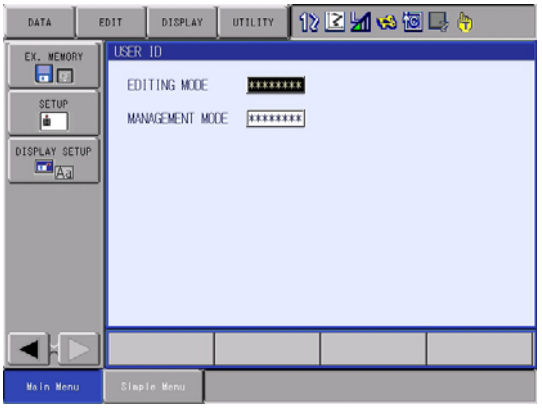
2.1.2.1 Changing a User ID

In order to change the user ID, the DX100 must be in Editing Mode or Management Mode. Higher security modes can make changes the user ID of to lower security modes.

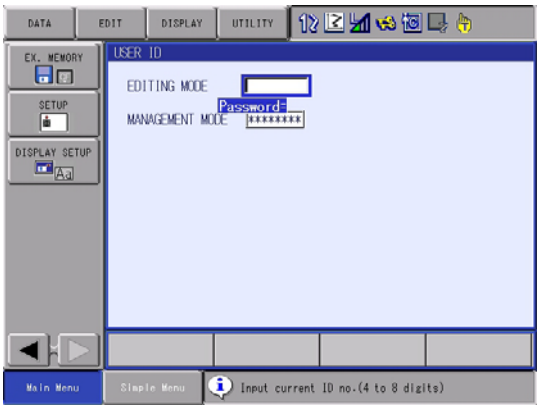
1. Select {SETUP} under the main menu.
   – The sub menu appears.



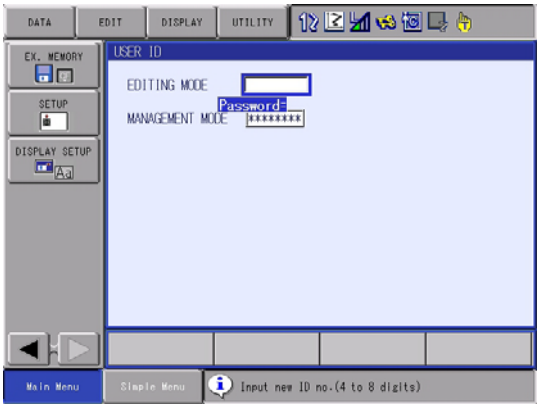
2. Select {USER ID}.
   – The USER ID window appears.



3. Select the desired ID.
   – The character input line appears, and the message "Input current ID no. (4 to 8 digits)" is shown.



4. Input current ID and press [ENTER].
   – When the correct user ID is entered, a new ID is requested to be input. "Input new ID no.(4 to 8 digits)" appears.



5. Input new ID and press [ENTER].
   – User ID is changed.

3 Inspections

3.1 Regular Inspections

WARNING

- **Do not touch the cooling fan or other equipment while the power is turned ON.**

Failure to observe this caution may result in electric shock or injury.

Carry out the following inspections.

Inspection Equipment	Inspection Item	Inspection Frequency	Comments
DX100 Controller	Check that the doors are completely closed	Daily	
	Check for gaps or damage to the sealed construction	Monthly	
Interior circulation fan and backside duct fan	Check operation	As required	While power ON
Emergency stop button	Check operation	As required	While servo ON
Enable switch	Check operation	As required	In teach mode
Battery	Confirm battery alarm or message is displayed or not	As required	
Power Supply	Check power supply voltage is normal	As required	
Circuit Breaker Lead Cables	Check falling out, loosing or breaking of the lead cables Check the correlate voltage	As required	

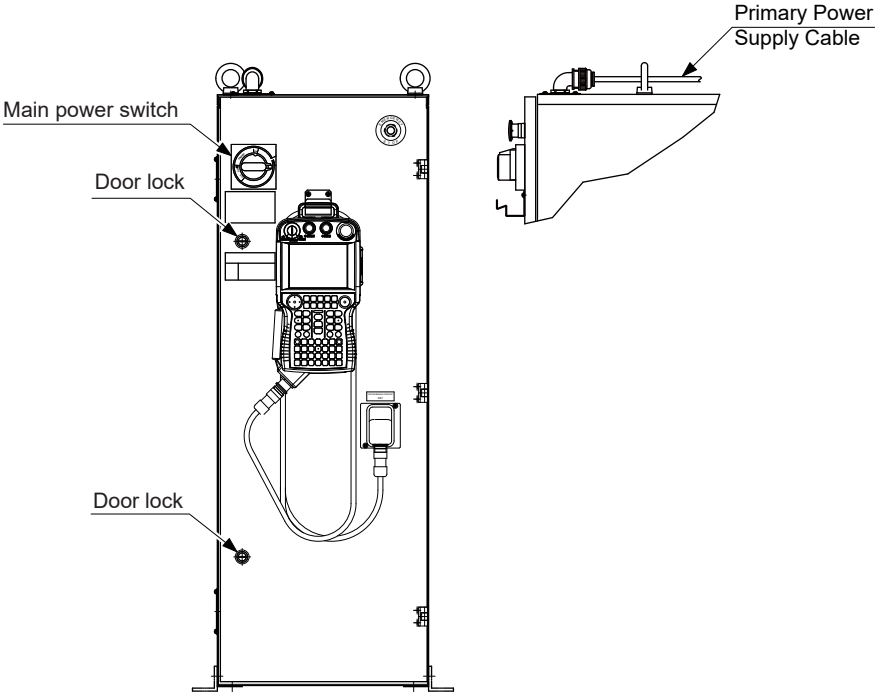
3.2 DX100 Inspections

3.2.1 Checking if the Doors are Firmly Closed

- The DX100 has a fully sealed construction, designed to keep external air containing oil mist out of the DX100.
  Be sure to keep the DX100 doors fully closed at all times, even when the controller is not operating.

- When opening or closing the doors for maintenance, use the screwdriver after the main power is turned OFF. (CW: Open, CCW: Close) Make sure to push the door and turn the door-lock with the driver to open or close the door. When closing the door, turn the door lock until it clicks.

Fig. 3-1: DX100 Front View



3.2.2 Checking for Gaps or Damage in the Sealed Construction Section

- Open the door and check that the seal around the door is undamaged.
- Check that the inside of the DX100 is not stained badly. If it is, determine the cause, take measures and immediately clean it.
- Firmly lock each door and check that no excessive gaps exist around the edge of the door.

3.3 Cooling Fan Inspections

Before the Cooling Fan Inspections

In principle, the door must not be opened to prevent electric shock while power is on. However, it is required to open the door if the cooling fan must be inspected. Exercise extreme care in this case.

WARNING

- To perform this operation, it is required to open the door of the control box while power is on.
- A heavy current (AC200V) flows inside the control box. Do not touch the internal unit.

Failure to observe this warning may result in electric shock.

- Close the door as soon as the maintenance work such as the inspection and check of cooling fan is completed.

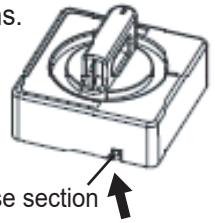
Failure to observe this warning may result in electric shock.

<How to Open and Close the Door>

< Excerpt from information materials of manufacturers >

● Door Lock Mechanism

The door of the control box can be opened at the OFF position. The door of the control box cannot be opened at the ON or trip position because it is locked at these positions. However, pressing the release section in the arrow direction with a tool (3mm wide, 1.8mm thick) makes it possible to open the door locked at the ON or trip position.



WARNING

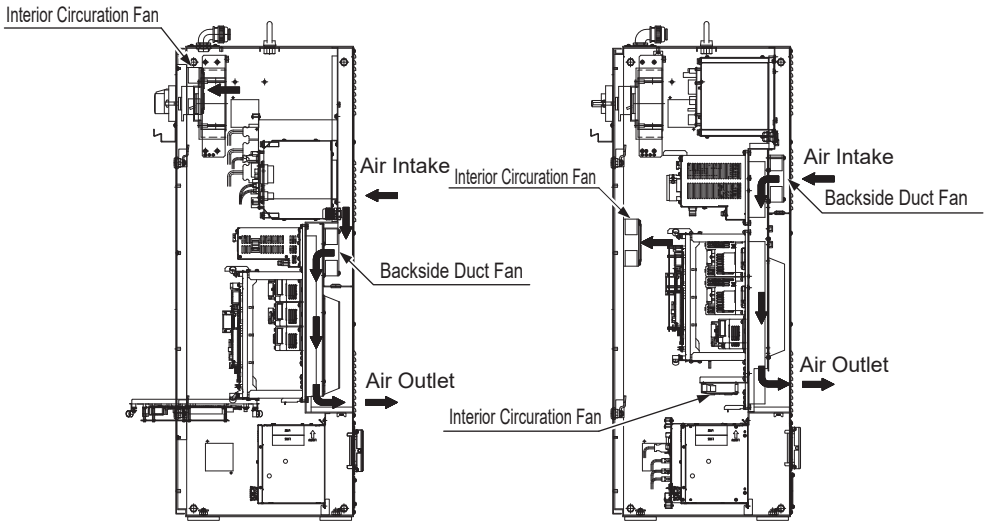
- Close the door as soon as the maintenance work such as the inspection and check of cooling fan is completed.

Failure to observe this warning may result in electric shock.

Cooling Fan Inspections

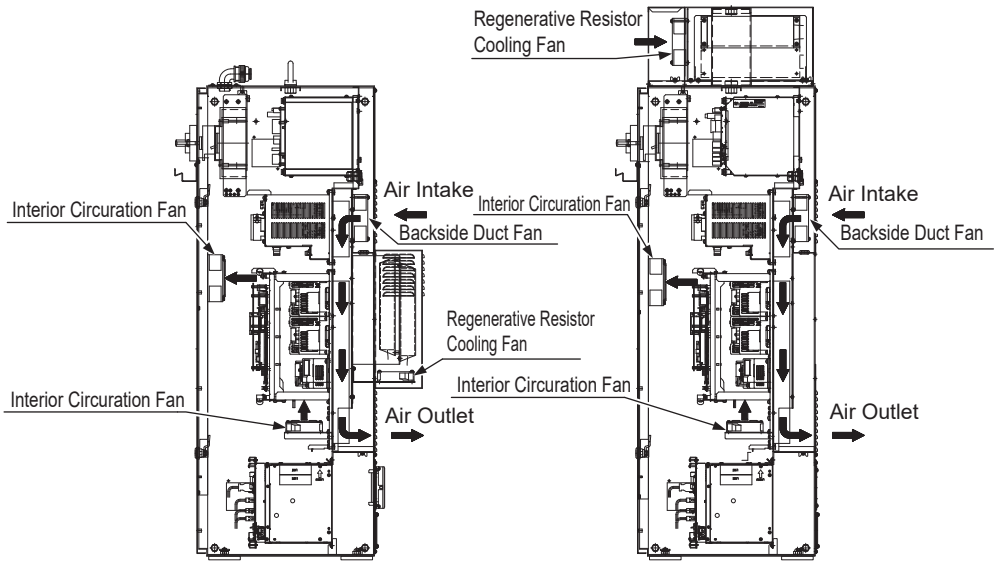
Inspect the cooling fans as required. A defective fan can cause the DX100 to malfunction because of excessive high temperatures inside.

The interior circulation fan and backside duct fan normally operate while the power is turned ON. Check if the fans are operating correctly by visual inspection and by feeling air moving into the air inlet and from the outlet.



Cooling System (Small Capacity)

Cooling System (Medium and Large Capacity)



Cooling System (Large Capacity)
(Backside-Mounted Regenerative Resistor Specification)

Cooling System (Large Capacity)
(Ceiling-Mounted Regenerative Resistor Specification)

NOTE

When the message of the "Cooling fan in YPS power supply stopped. Exchange fan" is displayed, it may be caused by the error occurrence at the cooling fan (JZNC-YZU01-E) inside CPU unit (JZNC-YPS01-E).

When the message of the "Cooling fan in YPS unit stopped, replace cooling fan" is displayed, carry out an inspection and the replacement of the cooling fan in the YPS unit as soon as possible.

3.4 Emergency Stop Button Inspections

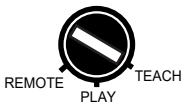
The emergency stop buttons are located on both the front door of the DX100 and the programming pendant. Before operating the manipulator, confirm that the servo power is ONFF by pressing the emergency stop button on the front door of the DX100 after the servo is ON.

3.5 Enable Switch Inspections

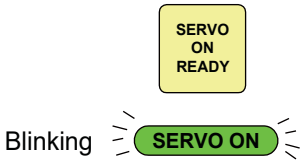
The programing pendant is equipped with a three-position enable switch. Perform the following operation to confirm the enable switch operates.

1. Set the mode switch with key on the programming pendant to "TEACH."

Mode switch with key



2. Press [SERVO ON READY] on the programming pendant. The [SERVO ON] lamp blinks.



3. When the enable switch is grasped lightly, the servo power is turned ON.
   When the enable switch is grasped firmly or released, the servo power is turned OFF.

NOTE

If the [SERVO ON] lamp does not light in previous operation (2), check the following:

- The emergency stop button on the front door of the DX100 is pressed.
- The emergency stop button on the programming pendant is pressed.
- The emergency stop signal is input from external.
- If a major alarm is occurring.

3.6 Battery Inspections

The DX100 has a battery that backs up the important program files for user data in the CMOS memory.

A battery alarm indicates when a battery has expired and must be replaced. The programming pendant display and the message "Memory battery weak" appears at the bottom of the display.

Please confirm that the above mentioned message is NOT indicated when inspecting.

The way to replace the battery is described in *chapter 5.1.1.1 "Replacing the Battery"* .

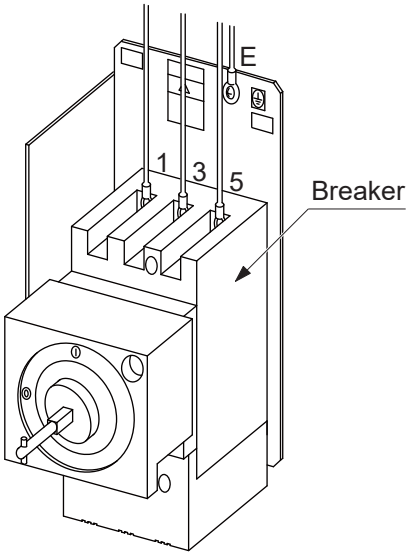
3.7 Power Supply Voltage Confirmation

Check the voltage of 1, 3, 5 terminal of the circuit breaker (QF1) with an electric tester.

Table 3-1: Power Supply Voltage Confirmation

Measuring Items	Terminals	Correct Value
Correlate voltage	Between 1 and 3, 3 and 5, 1 and 5	200 to 220V (+10%, -15%)
Voltage between earth (phase-S ground)	Between 1 and E, 5 and E	200 to 220V (+10%, -15%)
	Between 3 and E	About 0V

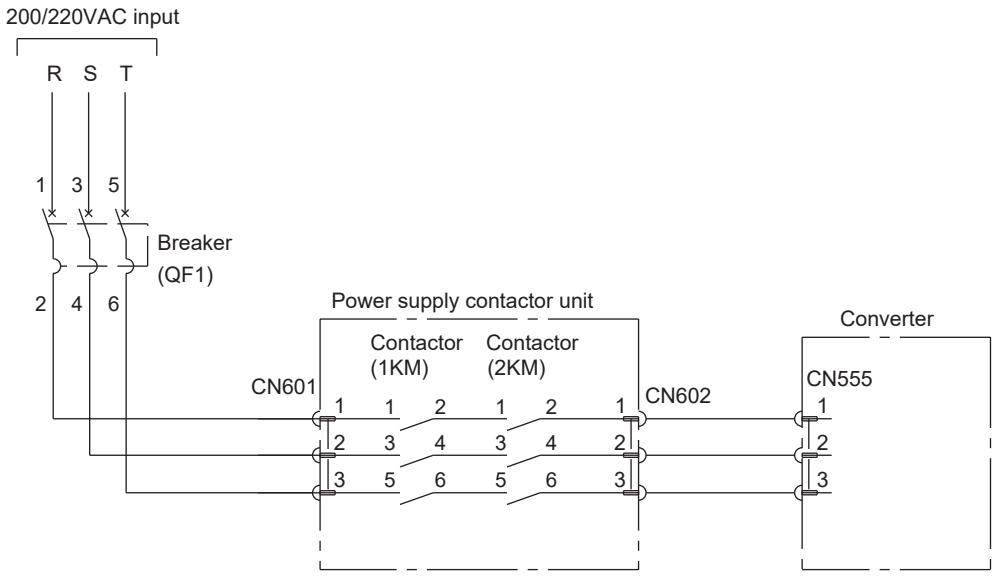
Fig. 3-2: Circuit Breaker (QF1)



3.8 Open Phase Check

Table 3-2: Open Phase Check List

Check Item	Contents
Lead Cable Check	Confirm if the lead cable for the power supply is wired as shown in the following without any falling out, looseness or breaking from the connecting part.
Input Power Supply Check	Check the open phase voltage of input power supply with an electric tester. (Normal value: 200-220VAC (+10%, -15%))
Circuit Breaker (QF1) Check	Turn ON the breaker and check the open phase voltage of “2, 4, 6” of the circuit breaker (QF1) with an electric tester. If abnormal, replace the circuit breaker (QF1).



4 Preparation before Replacing Parts

WARNING

- **Before operating the manipulator, check that the SERVO ON lamp turns OFF when the emergency stop buttons on the front door of the DX100 and the programming pendant are pressed.**

Injury or damage to machinery may result if the manipulator cannot be stopped in case of an emergency.

- **Observe the following precautions when performing teaching operations within the P-point maximum envelope of the manipulator:**
  - **Be sure to use a lockout device to the safeguarding when going inside.**
    Also, display the sign that the operation is being performed inside the safeguarding and make sure no one closes the safeguarding.
  - **View the manipulator from the front whenever possible.**
  - **Always follow the predetermined operating procedure.**
  - **Ensure that you have a safe place to retreat in case of emergency.**

Improper or unintended manipulator operation may result in injury.

- **Confirm that no persons are present in the P-point maximum envelope of the manipulator and that you are in a safe location before:**
  - **Turning ON the DX100 power.**
  - **Moving the manipulator with the programming pendant**

Injury may result if anyone enters the P-point maximum envelope of the manipulator during operation.Always press the emergency stop button immediately if there are problems.
Emergency stop buttons are located at the upper right corner of the front door of the DX100 and on the upper right of the programming pendant.

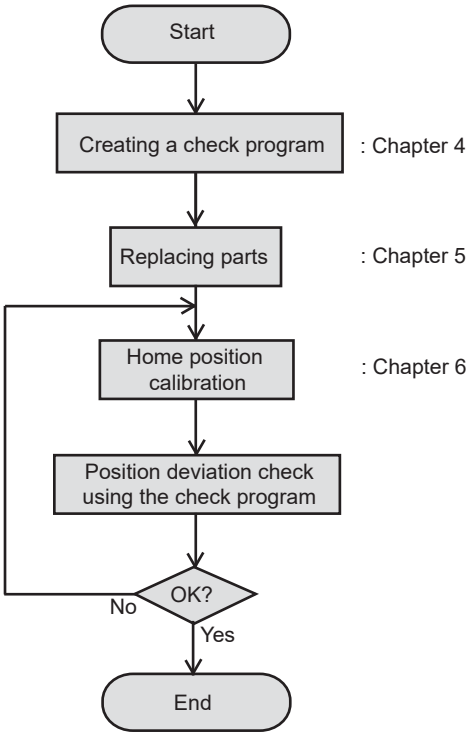
CAUTION

- **Perform the following inspection procedures prior to conducting manipulator teaching. If problems are found, repair them immediately, and be sure that all other necessary processing has been performed.**

  - **Check for problems in manipulator movement.**
  - **Check for damage to insulation and sheathing of external wires.**
  - **Always return the programming pendant to the hook on the DX100 cabinet after use.**

The programming pendant can be damaged if it is left in the P-point maximum envelope of the manipulator, on the floor, or near fixtures.

The following flowchart shows the operations for replacing parts.



This chapter describes how to create a check program as a preparation for replacing parts. The check program is a program to check the position deviation. If positions are deviated, home position calibration is required. For the calibration, this program data is used to correct the home position data. In the following cases particularly, the home position calibration using the check program is needed. Be sure to create a check program referring to *chapter 4.1 "Creating a Check Program"* .

- Change in the combination of the manipulator and DX100
- Replacement of the motor or absolute encoder
- Clearing stored memory (by replacement of YCP01 circuit board, weak battery, etc.)
- Home position deviation caused by hitting the manipulator against a workpiece, etc.

4.1 Creating a Check Program

To check position deviation whenever necessary, create a program in which a check point is taught (the job for the check point). In the job for the check point, teach two points; one as a check point and the other as the point to approach the check point. This program checks for any deviation between the tool tip position and the check point.

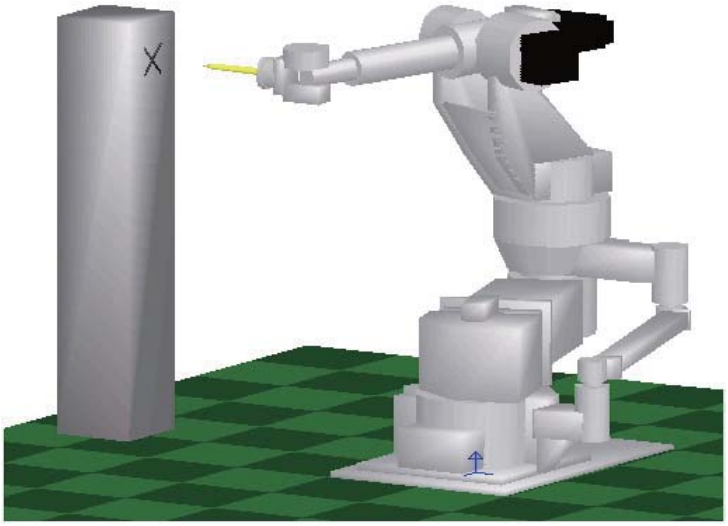
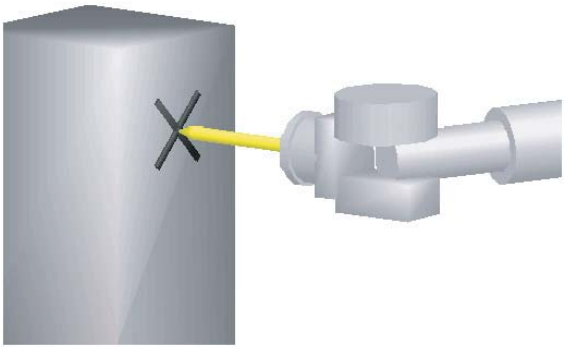


Fig. 4-1: <Enlarged View>



5 Replacing Parts

5.1 Replacing DX100 Parts

WARNING

- **Turn OFF the power supply before opening the DX100 doors.**

Failure to observe this warning may result in electric shock.

- **After turning OFF the power supply, wait at least 5 minutes before replacing a SREVOPACK (including the converter) or YPS unit. Do not touch any terminals during this period.**

Failure to observe this warning may result in electric shock.

WARNING

- **To prevent anyone inadvertently turning ON the power supply during maintenance, put up a warning sign such as "DO NOT TURN ON THE POWER" at the primary power supply (knife switch, wiring circuit breaker, etc.) and at the DX100 and related controllers and use accepted lockout/tagout procedures.**

Failure to observe this caution may result in electric shock or injury.

- **Do not touch the regeneration resistors. They are very hot.**

Failure to observe this caution may result in burn injuries.

- **After maintenance is completed, carefully check that no tools are left inside the DX100 and that the doors are securely closed.**

Failure to observe this caution may result in electric shock or injury.

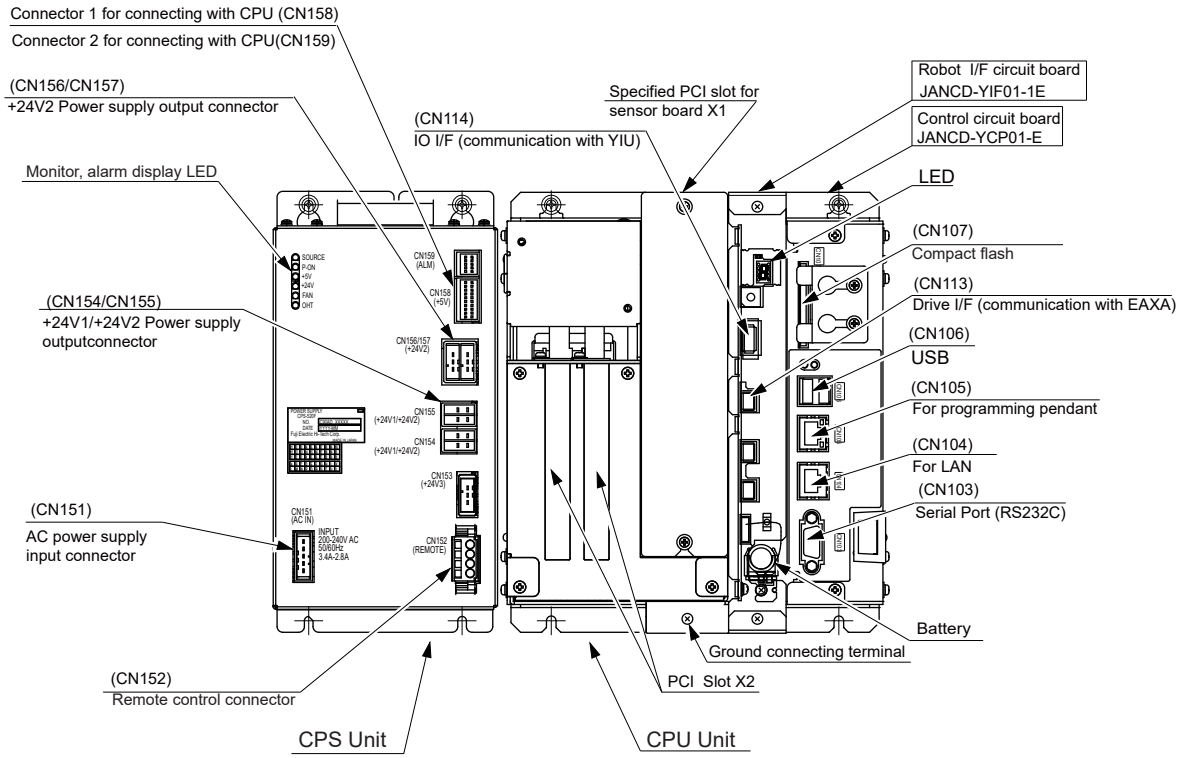
NOTE

- When replacing parts, do not touch the electronic components, patterns, card edge contact parts, contact of the connector, etc. on the printed circuit board.
  If you inadvertently touch any of them, wipe off dust, dirt, or other foreign matters with a clean cloth.
- When storing spare parts, do not unpack them. Dust, dirt, or other foreign matters may adhere to the connecting parts (contacts of connectors, card edges, etc.) of the spare parts if unpacked.
- Discharge static electricity from the body of the operator before replacing parts.
- Reattach connectors and cables correctly that were removed when replacing parts. (Make a note of connections before disconnecting connectors if necessary.)

5.1.1 Replacing Parts of the CPU Unit

CPU unit (JZNC-YRK01-1E) is comprised of the rack for the various circuit boards, control circuit board (D-YCP01-E) and robot I/F circuit board (JANCD-YIF01-1E). YPS unit (JZNC-YPS01-E) is a separated unit and it is arranged to the left side of CPU unit.

Fig. 5-1: Configuration of CPU rack and YPS unit (JZNC-YRK01, JZNC-YPS01-E)



5.1.1.1 Replacing the Battery

The battery must be replaced as soon as the message "Memory battery weak" appears at the programming pendant display.

NOTE

- Be sure to back up robot data before replacing the battery.
- To prevent loss of data, keep the breaker turned ON until just before starting the replacement of the battery. Battery replacement should be done as soon as possible after the breaker is turned off.

■ **Replacement Procedure**

1. Loosen the screws on the battery connector holder and slide it to the right.
2. Remove the battery connector (CN110/BAT) on the robot I/F circuit board (JANCD-YIF01-oE) and loosen the fixing screws below the battery to remove the battery.
3. Mount a new battery on the robot I/F circuit board and connect the connector (CN110/BAT).
4. Slide the battery connector holder to the left and fix it with the screws.
5. Please confirm that the above mentioned message is not indicated at the programming pendant display after battery replacement.

NOTE

Although the CMOS memory is backed up by super capacitor, the battery must be replaced as soon as the message "Memory battery weak" appears.

The job data and other data may be lost if the message "Memory battery weak" appears and the breaker is turned OFF for more than 2 hours.

5.1.1.2 Replacing the Control Circuit Board (JANCD-YCP01-E)

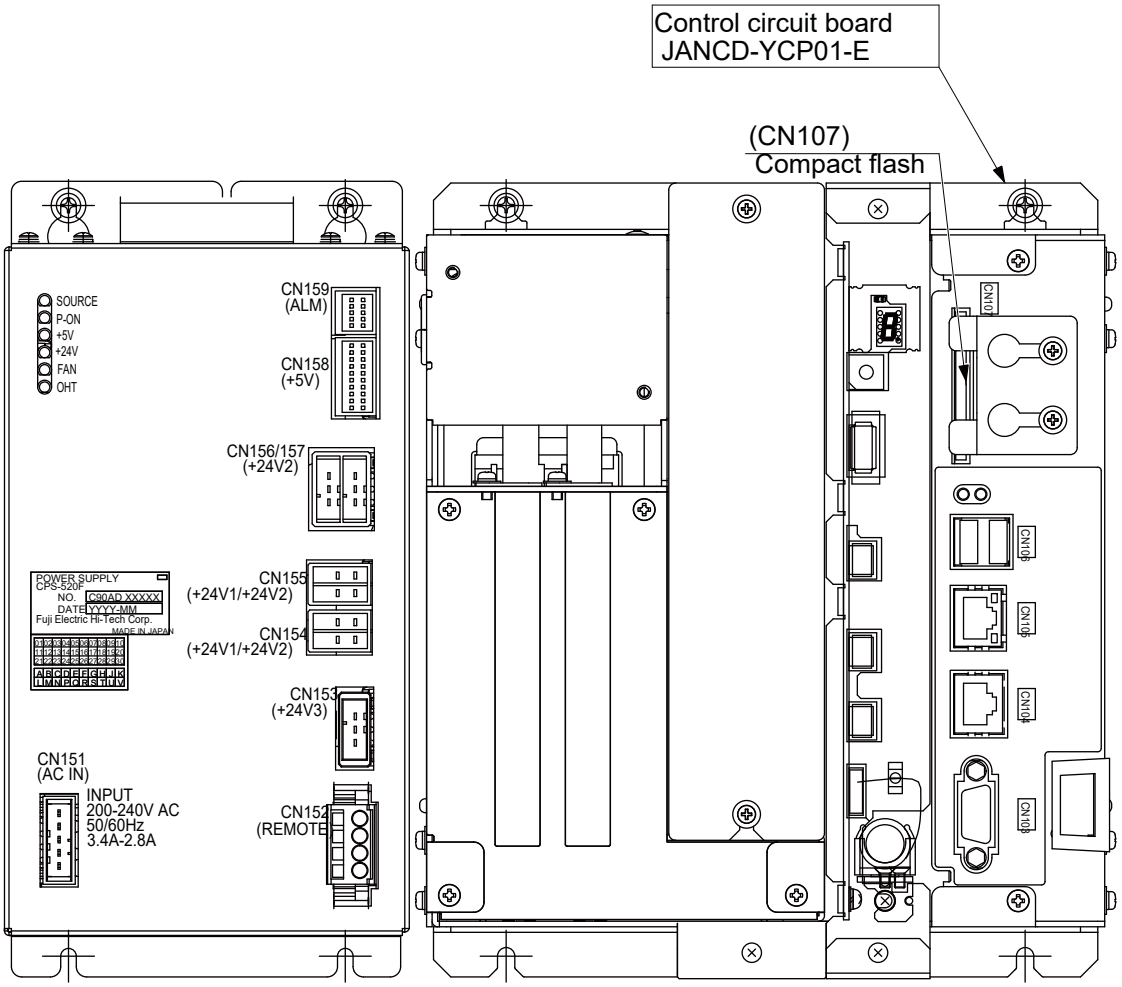
Turn OFF the power before replacing a circuit board.

NOTE

- When replacing parts, do not touch the electronic components, patterns, card edge contact parts, contact of the connector, etc. on the printed circuit board.
  If you inadvertently touch any of them, wipe off dust, dirt, or other foreign matters with a clean cloth.
- When storing spare parts, do not unpack them. Dust, dirt, or other foreign matters may adhere to the connecting parts (contacts of connectors, card edges, etc.) of the spare parts if unpacked.

■ **Replacement Procedure**

Perform the following steps 1 to 9.



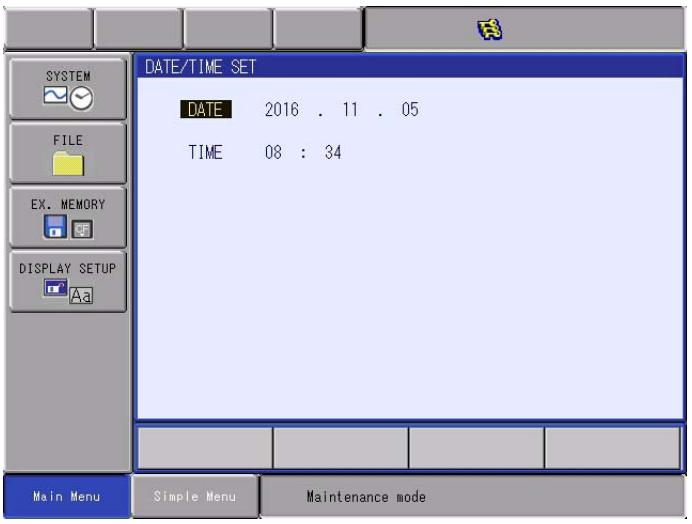
1. Disconnect all cables connected to the circuit board.
2. Remove screws fixing the circuit board from upper and lower side. (one part at each side)
3. Pull out the circuit board from the rack.
4. Remove the Compact Flash from the removed circuit board and insert the Compact Flash into a new circuit board.
5. Mount the new circuit board to the rack.

> **NOTE**
>
> Fit the side of the CPU board in the upper and lower rails which are on the left side in the rack. Then insert the CPU board straight along the rails and connect to the backboard connector.
> If force the CPU board into the backboard connector while the CPU board deviates from the rails, it may result in damage to the CPU board. If the CPU board stuck in the rails, pull out the CPU board and confirm not to damage to it. Then insert the CPU board again.

6. Tighten upper and lower screws.
7. Connect all disconnected cables.

8. Start the system in the maintenance mode after replacing the CPU board (JANCD-YCP01-E). Set the date and time after changing the security mode to the maintenance mode.

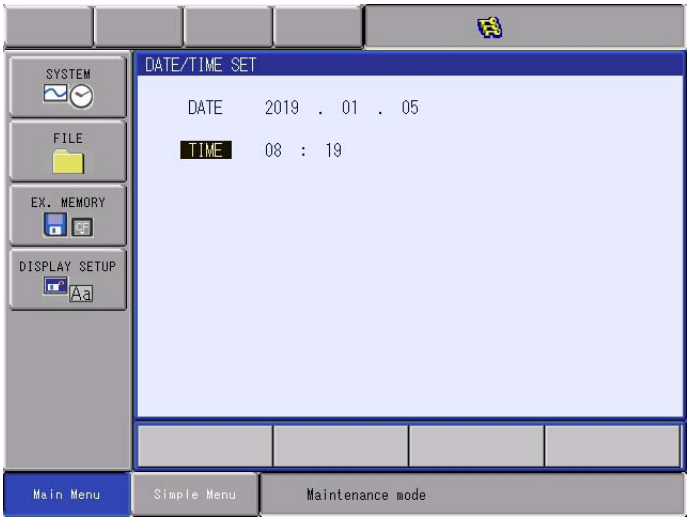
   (1) Select {SYSTEM} – {SETUP} – {DATE/TIME}.
   – The DATE/TIME window appears.



   (2) Select {DATE} or {TIME}.
   – Numbers can now be entered.

   (3) Input date or time.
   – Input "2019.01.05" if the date is January 5, 2019.
   Input "08.19" if the time is eight nineteen (8:19 am).

(4) Press [ENTER].
– The date or time changes.



(5) Press [ENTER] again.
– Date and time settings are completed if the following screen appears.

9. Turn OFF the power of the DX100.

5.1.1.3 Replacing the YPS Unit (JZNC-YPS01-E)

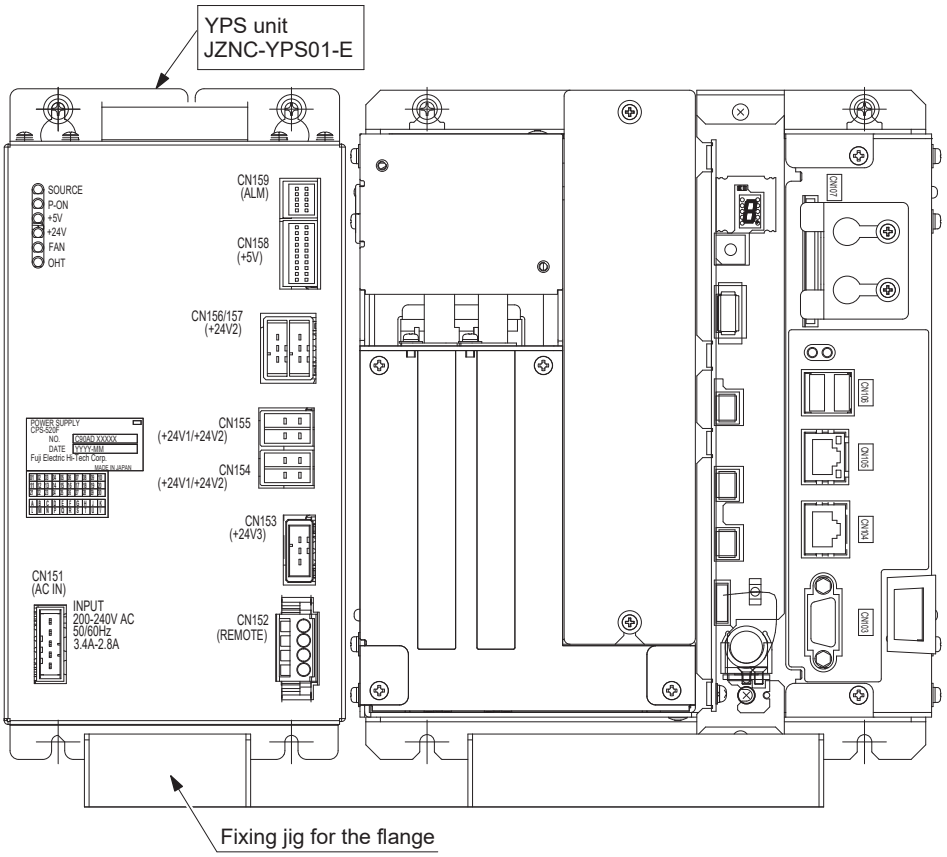
WARNING

- **After turning OFF the power supply, wait at least 5 minutes before replacing a control power supply. Do not touch any terminals during this period. Confirm all monitor lights are turned OFF.**

Failure to observe this caution may result in electric shock or injury.

■ **Replacement Procedure**

1. Disconnect all cables connected to the YPS unit.
2. Loosen upper screws (2 places) fixing the YPS unit to the controller.
3. Hold to remove the YPS unit itself by pulling out from the controller.
4. Insert the lower part flange of the new YPS unit into the fixing jig which is at the bottom of the controller.
5. Tighten upper screws.
6. Connect all the disconnected cables.



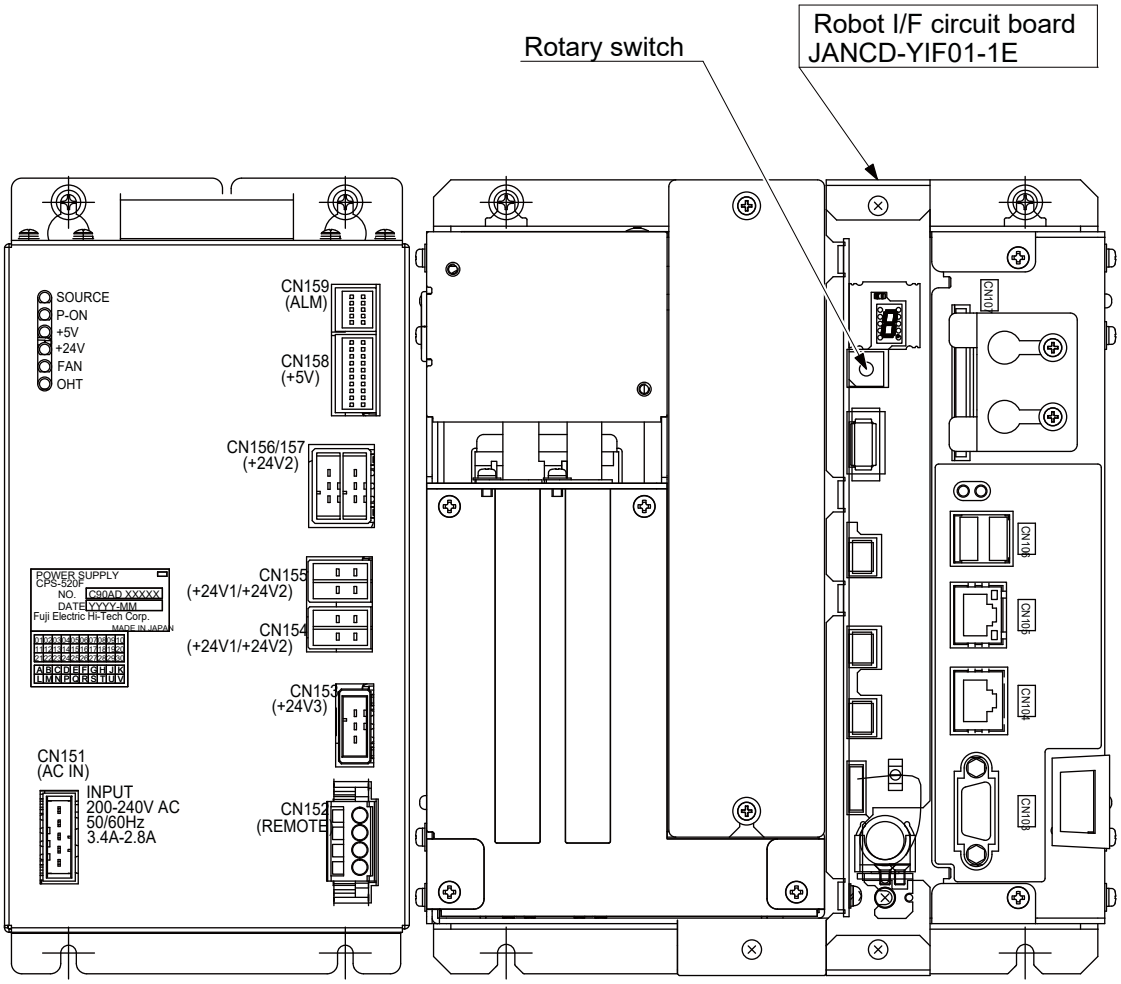
5.1.1.4 Replacing the Robot I/F Circuit Board (JZNCD-YIF01-1E)

NOTE

- Turn OFF the power before replacing the robot I/F circuit board.
- When replacing parts, do not touch the electronic components, patterns, card edge contact parts, contact of the connector, etc. on the printed circuit board.
  If you inadvertently touch any of them, wipe off dust, dirt, or other foreign matters with a clean cloth.
- When storing spare parts, do not unpack them. Dust, dirt, or other foreign matters may adhere to the connecting parts (contacts of connectors, card edges, etc.) of the spare parts if unpacked.
- Be sure to back up robot data before replacing the circuit board since the robot I/F circuit board contains important data such as robot jobs and parameters.
- There are some versions which require maker mode operations after replacing the robot I/F circuit board. Contact your Yaskawa representative for maker mode operations.

■ **Replacement Procedure**

1. Back up the robot data.
   Insert a CF card for backup to the programming pendant, and start the system in maintenance mode.
   Select {EX.MEMORY} ⇒ {SAVE} ⇒ "BATCH CMOS " to save the CMOS data.
   Backup all the individual data for safe.
2. Turn OFF the power after making backup.
3. Disconnect all cables on the robot I/F circuit board.
4. Remove two screws fixing the robot I/F circuit board and rack.
5. Pull out the robot I/F circuit board from the rack.
6. Insert new robot I/F circuit board into the slot of the rack.
7. Tighten upper and lower screws of the robot I/F circuit board.
8. Connect all the cables disconnected in the procedure 3.
9. Set the rotary switch as the same value as the original I/F circuit board.
10. Start up the system in maintenance mode and insert the CF card with the backed up data in procedure 1 to the programming pendant. Change the mode from security mode to management mode. Select {EX.MEMORY} ⇒ {LOAD} ⇒ "BATCH CMOS" to start loading the data. After loading, the state returns to the state as before the replacement.

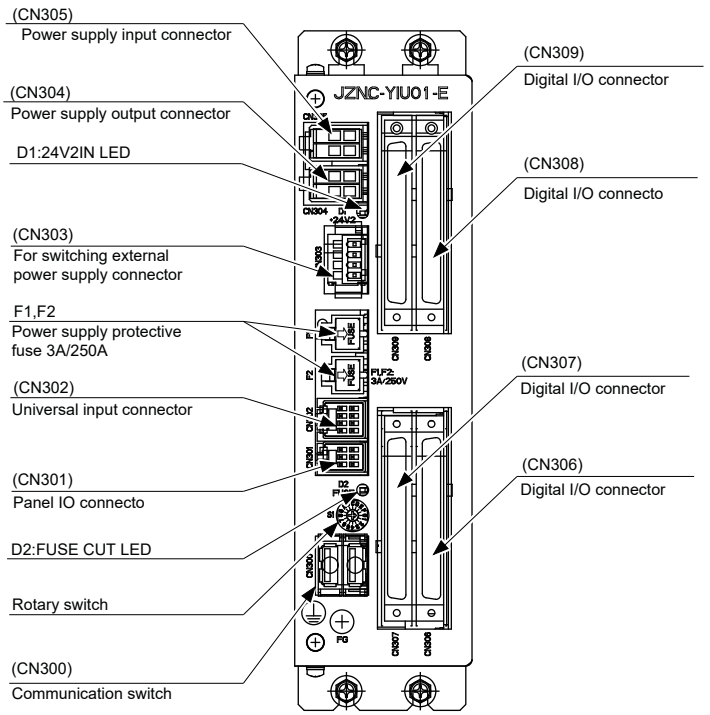

Rotary switch
Robot I/F circuit board
JANCD-YIF01-1E
SOURCE
P-ON
+5V
+24V
FAN
OHT
CN159
(ALM)
CN158
(+5V)
CN156/157
(+24V2)
CN155
(+24V1/+24V2)
CN154
(+24V1/+24V2)
CN153
(+24V3)
CN152
(REMOTE)
CN151
(AC IN)
INPUT
200-240V AC
50/60Hz
3.4A-2.8A
POWER SUPPLY
CPS-520F
NO. C90AD XXXXX
DATE YYYY-MM
Fuji Electric Hi-Tech Corp.
MADE IN JAPAN
CN10
CN10g
CN10f
CN10e
CN10b

5.1.1.5 Replacing the I/O Unit (JZNC-YIU0□-E)

> **NOTE** Turn OFF the power before replacing the unit.

■ **Replacement Procedure**

1. Disconnect all the cables connected to the I/O unit.
   (Disconnect the ground wirings screwed to the front side of the unit.)
2. Loosen the screws (four places) fixing I/O unit.
3. Remove I/O unit from the controller by holding up its cover.
4. Mount new I/O unit to the controller.
5. Connect new I/O unit by tightening upper and lower side screws (four places)
6. Connect all the disconnected cables.
   (Connect the ground wirings firmly.)
7. If CN300 has a termination connector (CBL-YRC020), install it at the right of CN300 in the new I/O unit.
8. Set the rotary switch to the same value as the removed unit's rotary switch.



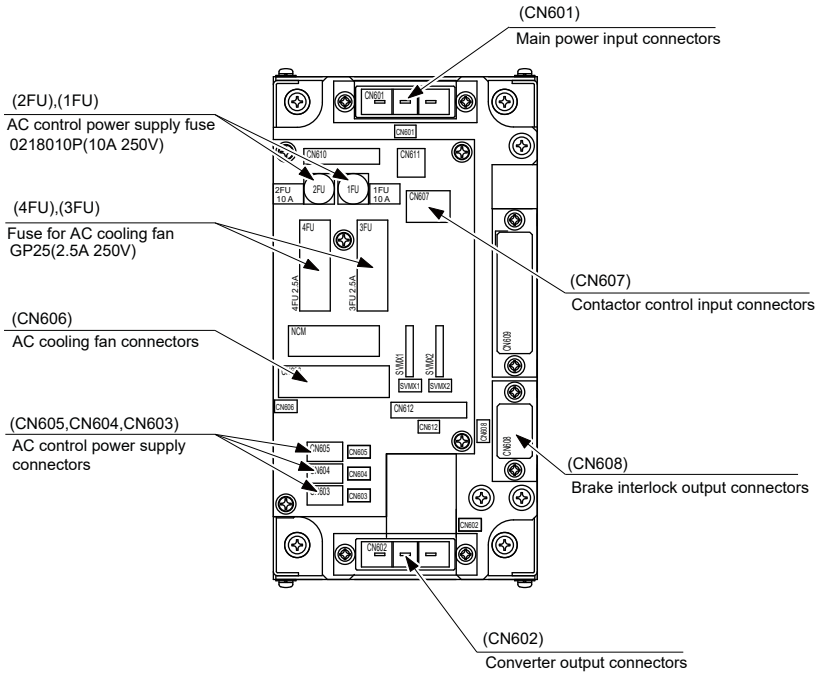
I/O Unit JZNC-YIU01-E

5.1.1.6 Replacing the Power Supply Contactor Unit (JZRCR-YPU01- □)

NOTE Turn OFF the power before replacing the unit.

■ **Replacement Procedure**

1. Disconnect all the cables connected to the power supply contactor unit.
   *The following connectors are not necessarily disconnected since they are to connected inside the controller.
   CN610, CN611, CN612
   (Disconnect the ground wirings screwed to the front side of the unit.)
2. Loosen upper and lower side screws (4 places) fixing the power supply contactor to the controller.
3. Remove the power supply contactor from the controller by holding up the upper and lower side cover.
   *Do not hold the board only, but hold it together with the unit since it may cause damages to the board or injury.
4. Hook the new power supply contactor to the screws in the controller (4 places).
   *Do not hold the board only, but hold it together with the unit since it may cause damages to the board or injury.
5. Tighten upper and lower side screws (4 places) firmly to fix the power supply contactor.
6. Connect all the disconnected cables.
   (Connect the ground wirings firmly.)



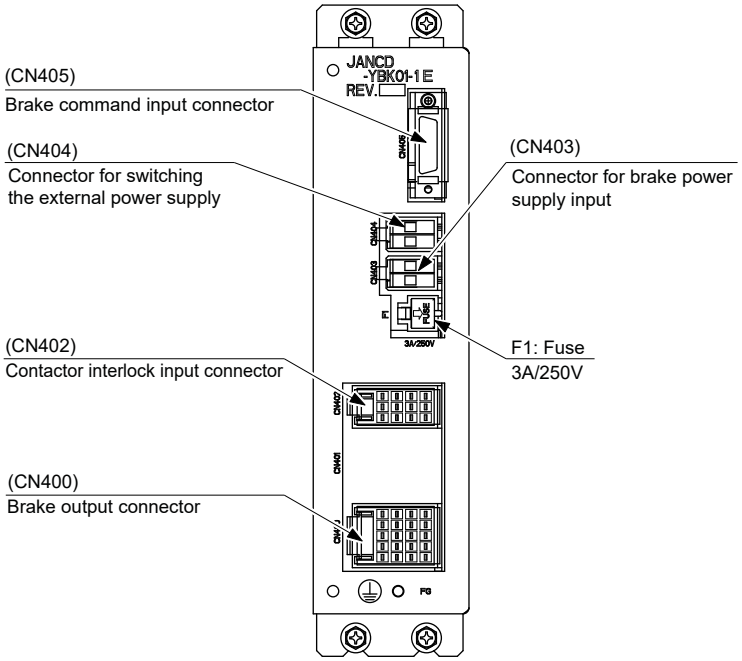
Configuration of Power Supply Contactor Unit (JZRCR-YPU01-1)

5.1.1.7 Replacing the Brake Board (JZRCR-YBK01- □ E)

> **NOTE** Turn OFF the power before replacing the unit.

■ **Replacement Procedure**

1. Disconnect the cable connectors connected to the brake board.
   *Do not disconnect jumper wiring connectors at CN404 yet.
   (Disconnect the ground wirings screwed to the front side of the board.)
2. Loosen upper and lower side screws (4 places) fixing the brake board to the controller.
3. Remove the brake board from the controller by holding up upper and lower side cover.
4. Hook the new brake board to the screws in the controller (4 places).
5. Tighten upper and lower side screws (4 places) to fix the brake board.
6. Disconnect CN404 jumper wiring connectors from the removed brake board and connect them toCN404 on the new brake board.
7. Connect all the disconnected cables in the order of CN400,CN402, CN403 AND CN405.
   (Connect the ground wirings firmly.)



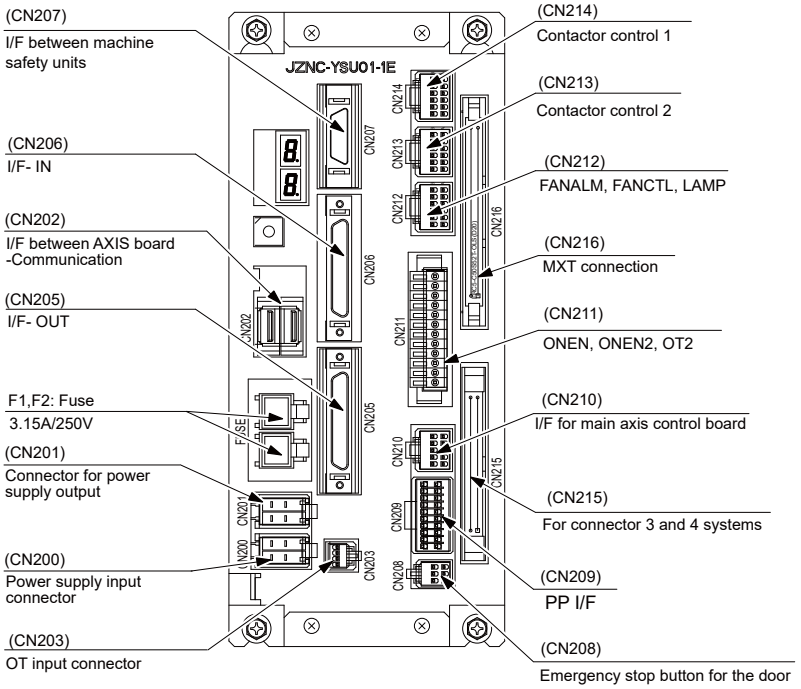
Brake board (JANCD-YBK01-□E)

5.1.1.8 Replacing the Machine Safety Unit (JZNC-YSU01-1E)

> **NOTE** Turn OFF the power before replacing the unit.

■ **Replacement Procedure**

1. Disconnect all the cables connected to the machine safety unit.
   *Do not disconnect the terminating connectors (CBL-YRC020) at CN202 yet.
   (Disconnect the ground wirings screwed to the front side of the unit.)
2. Loosen upper and lower side screws (4 places) fixing the machine safety unit to the controller.
3. Remove the machine safety unit from the controller by holding up upper and lower side cover.
4. Hook the new machine safety unit to the screws in the controller (4 places).
5. Tighten upper and lower side screws (4 places) to fix the brake board.
6. Disconnect CN202 terminating connectors from the removed machine safety unit and connect them to the right side of CN202 on the new machine safety unit.
7. Connect all the disconnected cables.
   *The flat cables connected to CN216 should be connected prior to connecting to CN214, CN213, CN212 and CN211.
   (Connect the ground wirings firmly.)
8. Set the rotary switch with the same value as the machine safety unit before replacement.



Machine Safety Unit (JZNC-YSU01-1E)

5.1.2 Replacing the SERVOPACK

WARNING

- **After turning OFF the power supply, wait at least 5 minutes before replacing a SERVOPACK. Do not touch any terminals during this period.**

Failure to observe this warning may result in electric shock.

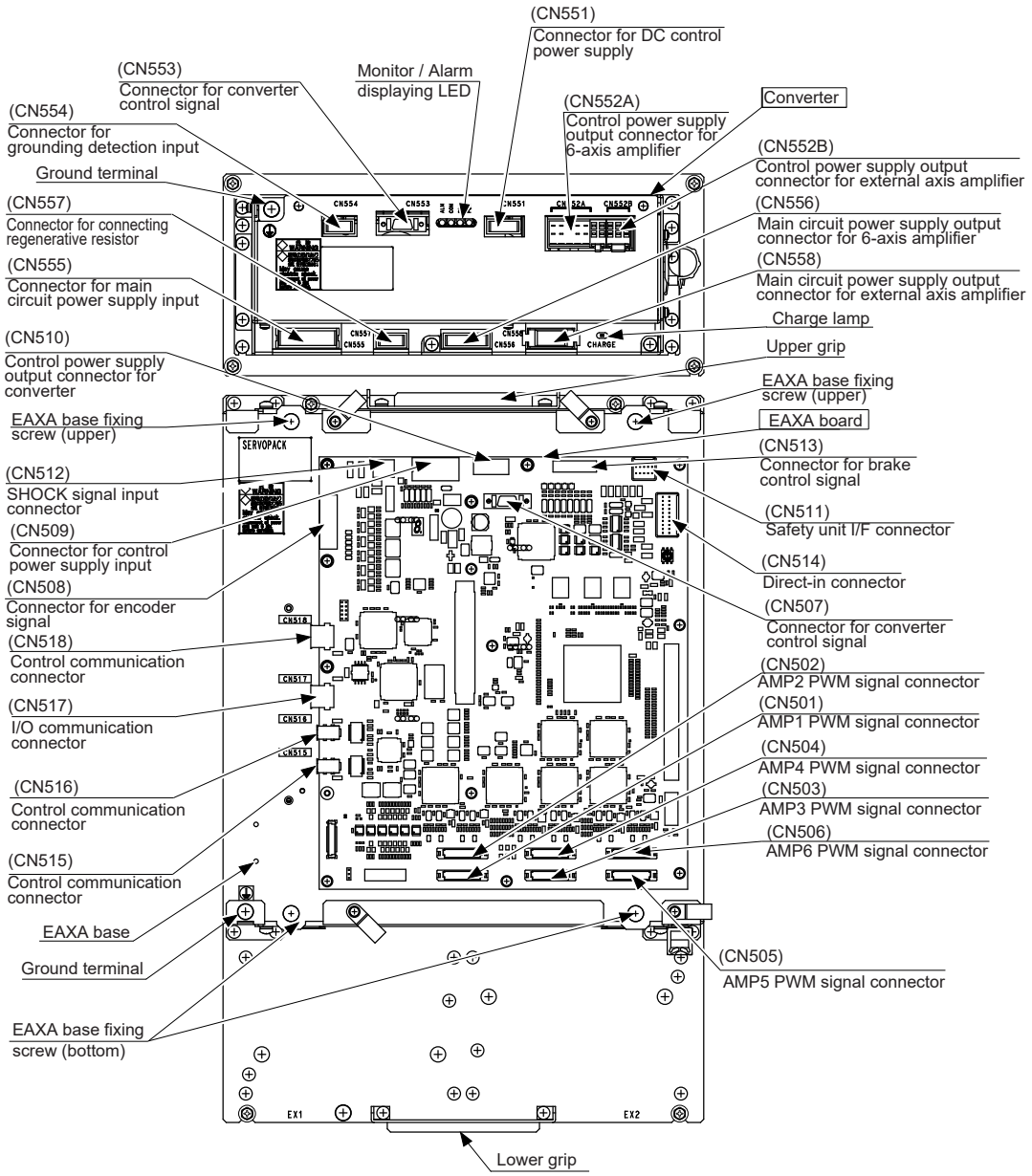
There are two kinds of SERVOPACKs.

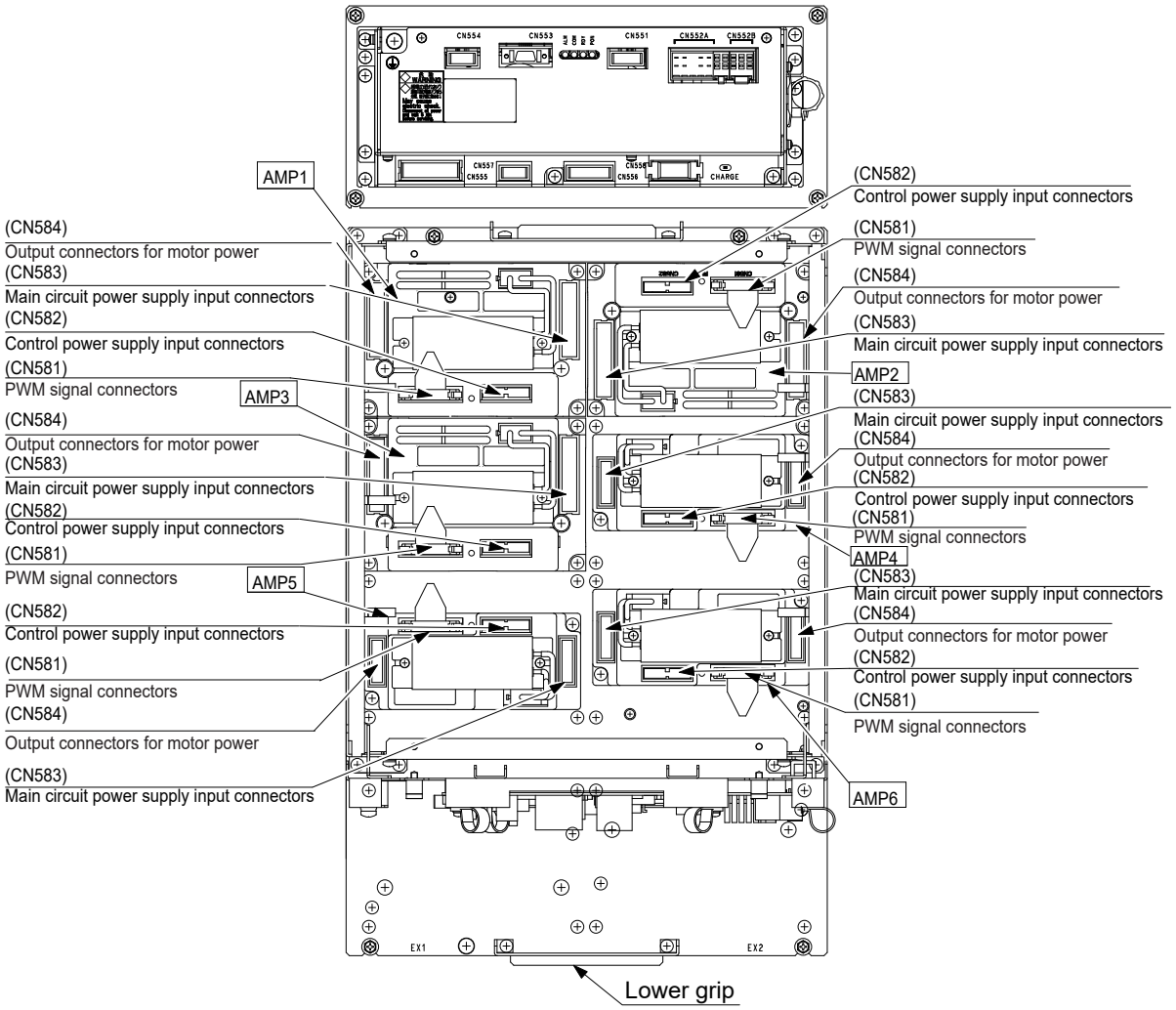
Type	Manipulator
Integrated Type	MH5, MH5S, MH5L, MH5LS, MH6, MH6S, MH6-10, MA1400, MA1900, MPK2, VA1400, HP20D, HP20D-6, HP20RD
Separated Type	EPH130D, EPH130RLD, ES165D, ES165D-100, ES165RD, ES200D, ES200RD, ES200RD-120, ES280D, ES280D-230, MH50, MH50-20, MH50-35, MH80, MH165, MH200, MH215, MH250, MPK50, MPL80, MPL100, MPL160, MPL300, MPL500, MS80, MS80W, MS120, SIA30D, SIA50D, UP50SD, UP120ED-165, UP350D, UP350D-200, UP350D-500, DX1350D, VS50, HP165D, MA1800, MC2000

■ **Replacement Procedure**

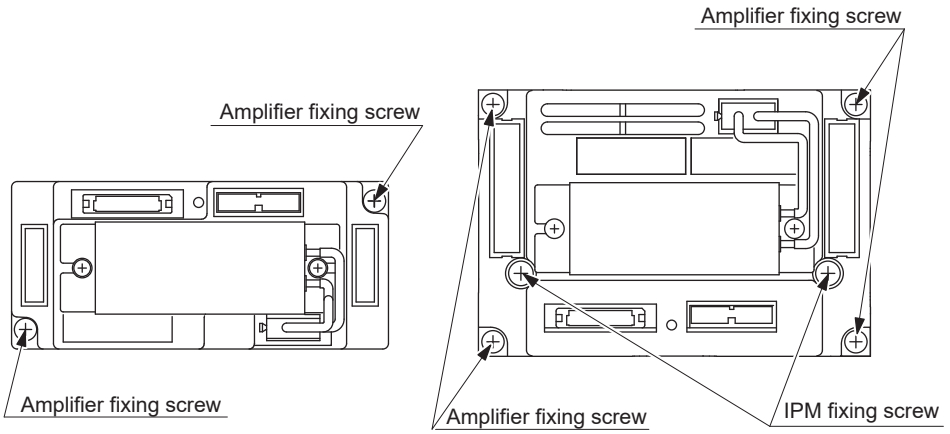
1. Turn OFF the breaker and the primary power supply and wait at least 5 minutes before replacement Do not touch any terminals during this period.
2. Verify that the SERVOPACK charge lamp (red LED) is unlit.
3. Disconnect all the cables connected externally to the SERVOPACK.
   (1) Converter control signal connector (CN553)
   (2) DC Control power supply connector (CN551)
   (3) Safety unit I/F connector (CN511)
   (4) Brake control signal connector (CN513)
   (5) Control power supply input connector (CN509)
   (6) SHOCK signal input connector (CN512)
   (7) Ground terminal connectors (EAXA base)
   (8) Control communication connector (CN515)
   (9) I/O communication connector (CN517)
   (10) Encoder signal connector (CN508)

4. Put the disconnected cable to the right side of the SERVOPACK
5. Unscrew two EAXA base fixing screws. (lower side)
6. Unscrew two EAXA base fixing screws. (upper side)
7. Open the EAXA base.
8. Disconnect all the cables from the amplifier to be replaced.
9. Remove screws fixing the amplifier.
   *03 to 21 amplifier: Remove upper right and lower left screws (2 places).
   *35 to 71 amplifier: Remove IPM fixing screws (2 places) besides t the four corners screws (4 places).
10. Mount thermal sheet to the new amplifier.
    (Refer to Thermal Sheet Mounting Instruction.)
11. Mount the new amplifier.
12. Connect all the disconnected cables to the new amplifier.
13. Tighten two EAXA base fixing screws. (upper side)
14. Tighten two EAXA base fixing screws. (lower side)
15. Connect all the disconnected cables to the servopack.
    Refer to the reversed procedures described in step 3.





Inside the EAXA Base



03 to 21 Amplifier

35 and 71 Amplifier

Amplifier/IPM Fixing Screw

"Thermal sheet mounting instruction"

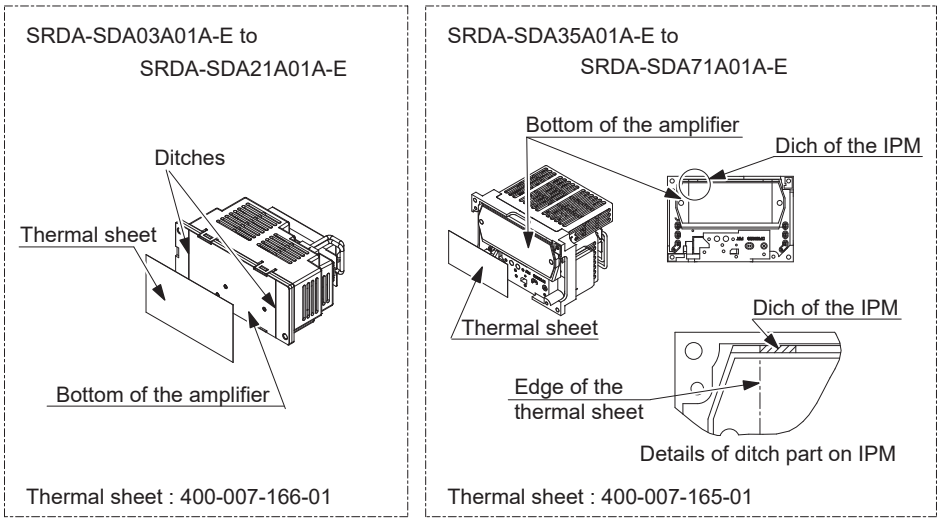
Affix the thermal sheet to the bottom of the amplifier along the ditches.

● External axis amplifier : SRDA-SDA03A01A-E~SRDA-SDA21A01A-E

Affix the thermal sheet to the bottom of the amplifier along its ditches.

● External axis amplifier : SRDA-SDA35A01A-E~SRDA-SDA71A01A-E

True up the edges of the IMP frame and its ditches that are at the bottom of the amplifier, then affix the thermal sheet along the edge.



Thermal Sheet Mounting Instruction

5.1.3 Replacing the Converter

Type	Manipulator
Integrated Type	MH5, MH5S, MH5L, MH5LS, MH6, MH6S, MH6-10, MA1400, MA1900, MPK2, VA1400, HP20D, HP20D-6, HP20RD,
Separated Type	EPH130D, EPH130RLD, ES165D, ES165D-100, ES165RD, ES200D, ES200RD, ES200RD-120, ES280D, ES280D-230, MH50, MH50-20, MH50-35, MH80, MH165, MH200, MH215, MH250, MPK50, MPL80, MPL100, MPL160, MPL300, MPL500, MS80, MS80W, MS120, SIA30D, SIA50D, UP50SD, UP120ED-165, UP350D, UP350D-200, UP350D-500, DX1350D, VS50, HP165D, MA1800, MC2000,

■ **Replacement Procedure (Integrated Type)**

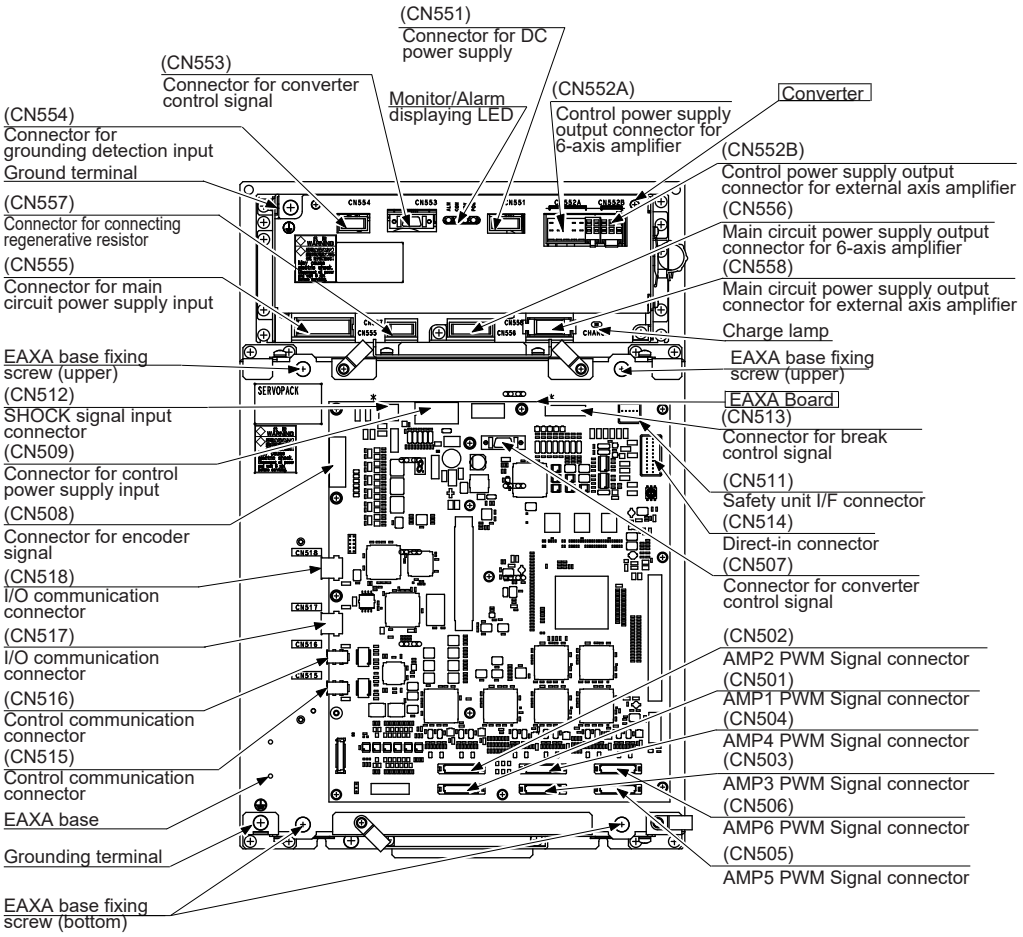
• How to Replace Converter

1. Turn OFF the breaker and the primary power supply and wait at least 5 minutes before replacement. Do not touch any terminals during this period.
2. Verify that the converter charge lamp (red LED) is unlit.
3. Disconnect the cables connected externally to the converter in the following order.
   (1) Ground fault detection input connector (CN554)
   (2) Converter control signal connector (CN553)
   (3) DC Control power supply connector (CN551)
   (4) Control power supply output connector for 6-axis amplifier (CN552A)
   (5) Safety unit I/F connector (CN511)
   (6) Brake control signal connector (CN513)
   (7) Control power supply input connector (CN509)
   (8) SHOCK signal input connector (CN512)
   (9) Ground terminal connectors (EAXA base)
   (10) Control communication connector (CN515)
   (11) I/O communication connector (CN517)
   (12) Encoder signal connector (CN508)
4. Put the disconnected cable to the right side of the SERVOPACK.
5. Unscrew two EAXA base fixing screws. (lower side)
6. Unscrew two EAXA base fixing screws. (upper side)
7. Open the EAXA base.
8. Disconnect all the cables connected to the amplifier to be replaced.
   (1) Main circuit power supply input connector (CN555)
   (2) Regeneration register connecting connector (CN557)
   (3) Main circuit power supply output connector for 6-axis amplifier (CN556)

   Disconnect the following connectors when they are connected.

   (4) Control power supply connector for external axis amplifier (CN552B)
   (5) Main circuit power supply output connector for external axis amplifier (CN558)
9. Remove the ground wiring connected to the converter.
10. Remove 4 screws fixing the converter.
11. Hold the top grip and lift it to pull out the converter.

12. Install the new converter and reconnect the connectors in the reverse order of the removing procedure.
(Connect the ground wirings firmly.)



Integrated SERVOPACK

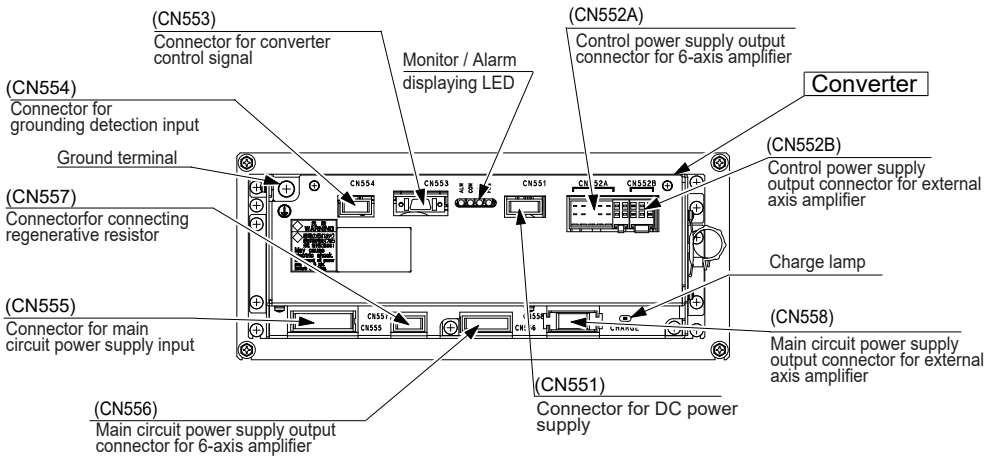
■ **Replacement Procedure (Separated Type)**

• How to Replace Converter

1. Turn OFF the breaker and the primary power supply and wait at least 5 minutes before replacement. Do not touch any terminals during this period.
2. Verify that the converter charge lamp (red LED) is unlit.
3. Disconnect all the cables connected externally to the converter.
   (1) Ground fault detection input connector (CN554)
   (2) Converter control signal connector (CN553)
   (3) DC Control power supply connector (CN551)
   (4) Main circuit power supply input connector (CN555)
   (5) Regeneration register connecting connector (CN557)
   (6) Main circuit power supply output connector for 6-axis amplifier (CN556)
   (7) Control power supply output connector for 6-axis amplifier (CN552A)

   Disconnect the following connectors when they are connected.

   (8) Control power supply connector for external axis amplifier (CN552B)
   (9) Main circuit power supply output connector for external axis amplifier (CN558)
4. Remove the ground wiring connected to the converter.
5. Remove the screws fixing the converter. (4 places)
6. Hold the top grip and lift it to pull out the converter.
7. Install the new converter and reconnect the connectors in the reverse order of the removing procedure.
   (Connect the ground wirings firmly.)



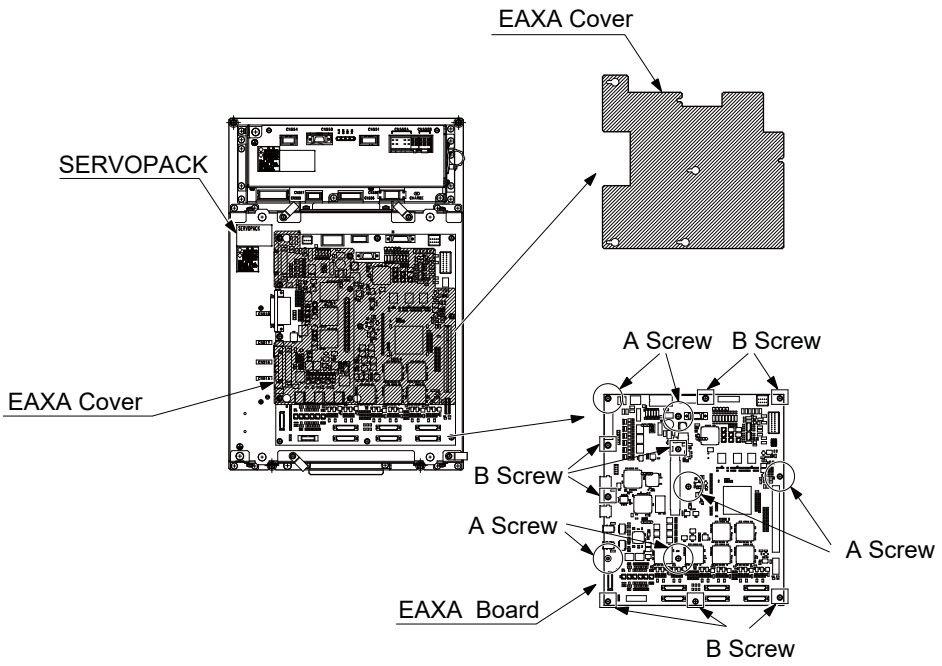
Separated Type Converter

5.1.4 Replacing the Basic Axis Control Circuit Board (SRDA-EAXA01A)

NOTE

- Turn OFF the power before replacing the circuit board.
- When replacing parts, do not touch the electronic components, patterns, card edge contact parts, contact of the connector, etc. on the printed circuit board.
  If you inadvertently touch any of them, wipe off dust, dirt, or other foreign matters with a clean cloth.

1. Disconnect all the cables connected to the circuit board.
2. Remove A screws. (6 places)
3. Remove the EAXA cover.
4. Remove hexagon threaded spacers (6 places) fixing A screws.
5. Remove B screws (8 places).
6. Remove the control circuit board from the SERVOPACK.
7. Install the new circuit board to the SERVOPACK in the reverse order of the removing procedure.
8. Set the rotary switch to the same value as the removed circuit board's rotary switch.
9. Reinstall the EAXA cover.
10. Connect all the disconnected cables in the step 1.



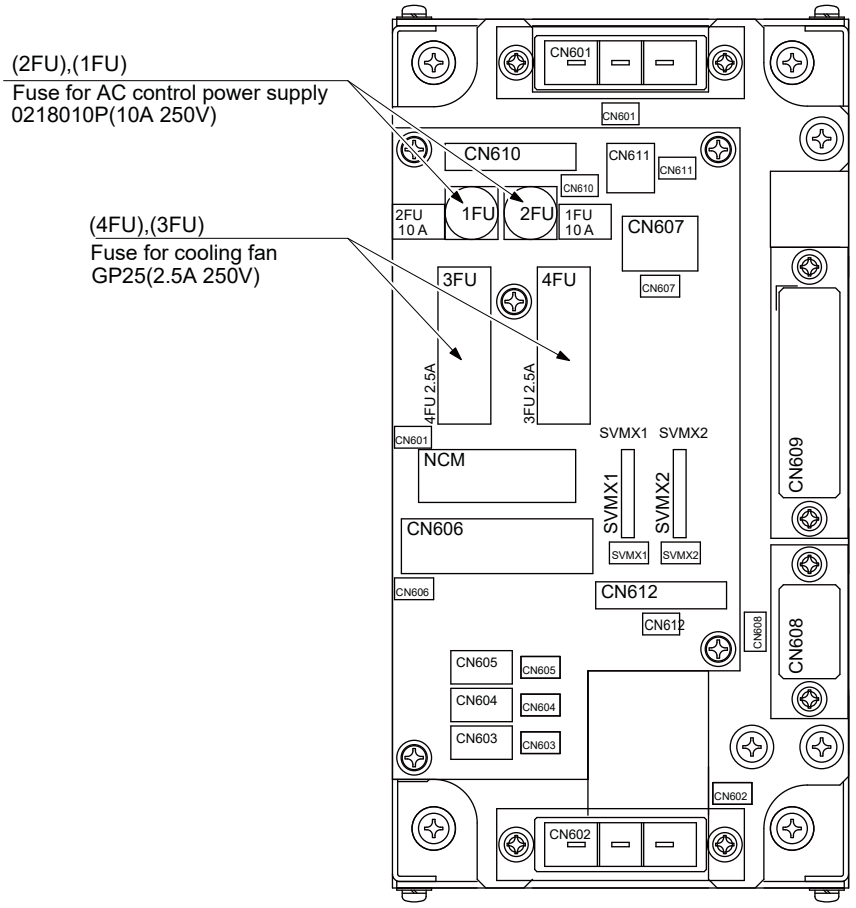
Basic Axis Control Circuit Board Replacement Procedure

5.1.5 Checking and Replacing Fuses

5.1.5.1 Power Supply Contactor Unit

The types of fuses on power supply contactor unit (JZRCR-YPU01-□) are as follows.

Parts No.	Fuse Name	Specification
1FU, 2FU	AC Control Power Supply Fuse	0218010P 250V,10A, Time Lag Fuse (LITTEL)
3FU,4FU	AC Cooling Fan Fuse	GP25, 2.5A, 250V (Daito Communication Apparatus Co., Ltd.)



Replacement Fuse of the Power Supply Contactor Unit (JZRCR-YPU01- □)

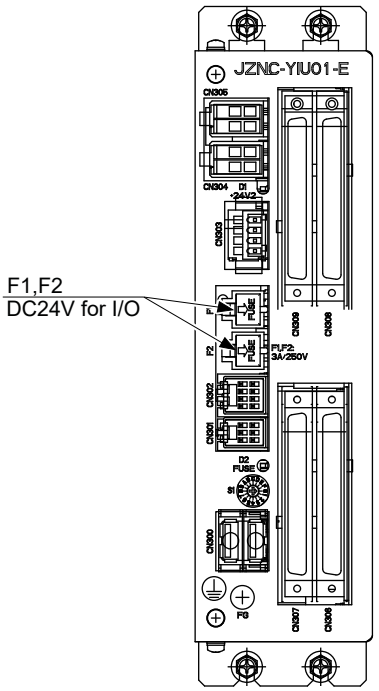
If the fuse is blown, replace it with the same type of fuse (supplied or spare parts).

NOTE If the fuse seems to be blown, be sure to investigate its cause, or blown again after the replacement.

5.1.5.2 I/O Unit

The types of fuses on the I/O unit (JZNC-YIU01-E) are as follows.

Parts No.	Fuse Name	Specification
F1, F2	24VDC Fuse for I/O	02173.15P, 250V,3.15A, Rapid Cut Fuse (LITTEL)



Replacement Fuse of I/O Unit (JZNC-YIU01-E)

If the fuse is blown, replace it with the same type of fuse (supplied or spare parts).

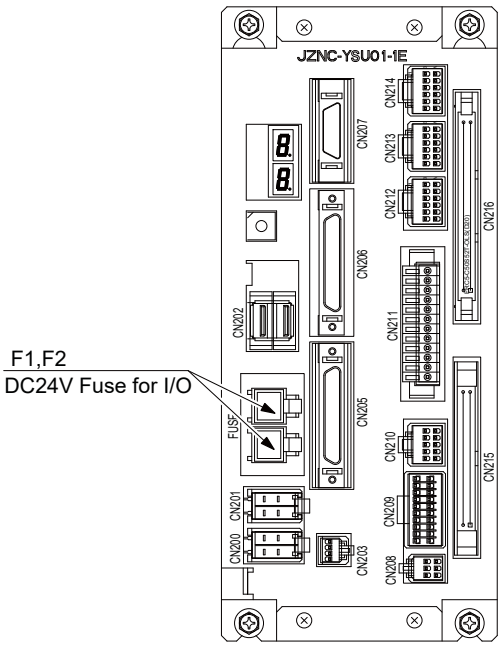
NOTE

If the fuse seems to be blown, be sure to investigate its cause, or blown again after the replacement.

5.1.5.3 Machine Safety Unit

The types of fuses on the machine safety unit (JZNC-YSU01-1E) are as follows.

Parts No.	Fuse Name	Specification
F1, F2	24VDC Fuse for I/O	02173.15P, 250V,3.15A, Rapid Cut Fuse (LITTEL)



Replacement Fuse of Machine Safety Unit

If the fuse is blown, replace it with the same type of fuse (supplied or spare parts).

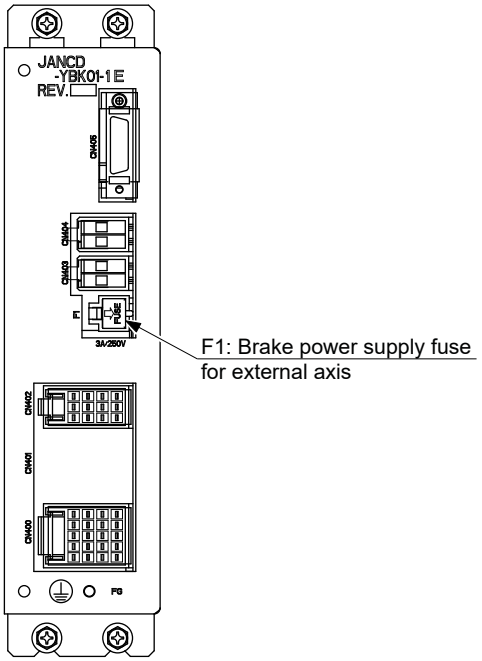
NOTE

If the fuse seems to be blown, be sure to investigate its cause, or blown again after the replacement.

5.1.5.4 Brake Board

The types of fuses on the brake board (JANCD-YBK01-1E) are as follows.

Parts No.	Fuse Name	Specification
F1	Brake Power Supply Fuse for External Axis	02173.15P, 250V,3.15A, Rapid Cut Fuse (LITTEL)



Replacement Fuse of Brake Board (JANCD-YBK01-1E)

If the fuse is blown, replace it with the same type of fuse (supplied or spare parts).

NOTE If the fuse seems to be blown, be sure to investigate its cause, or blown again after the replacement.

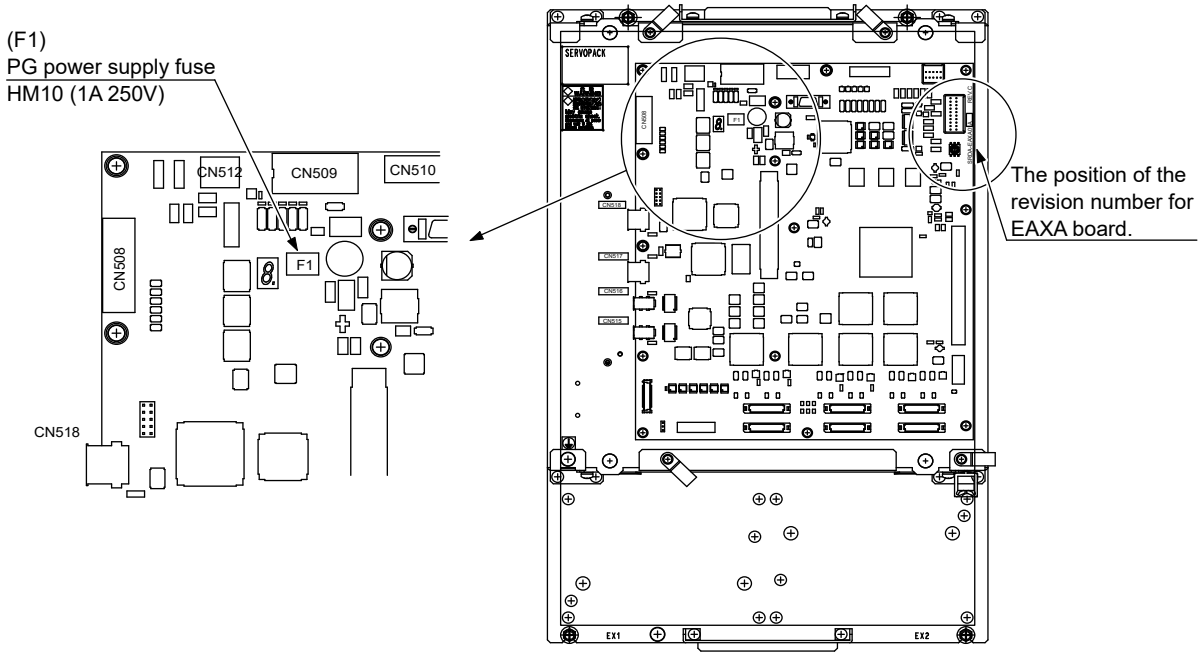
5.1.5.5 Major Axes Control Circuit Board

There is a following fuse in the major axes control circuit board (SRDA-EAXA01A).

*A exchangeable fuse is mounted in the board of which revision number is later than REV.C.

Parts No.	Name	Specification
F1	PG power supply fuse	HM10 250V, 1A Daito Communication Apparatus Cp.,Ltd

Fig. 5-2: Replacement Fuse of the Major Axes Control Circuit Board



If the fuse is blown, replace it with the same type of fuse (supplied or spare parts).

*With the system software version DS3.30.00A(**/**)-00 or later, the alarm1692 “PG POWER FUSE BLOWN (SV)” will occur if this fuse becomes blown.

*When using the version earlier than DS3.30.00A(**/**)-00, the alarm 1325 “COMMUNICATION ERROR (ENCODER)” will occur in the all axes. If the alarm 1325 occurs in the all axes, be sure to check this fuse.

NOTE

If the fuse seems to be blown, be sure to investigate its cause, or blown again after the replacement.

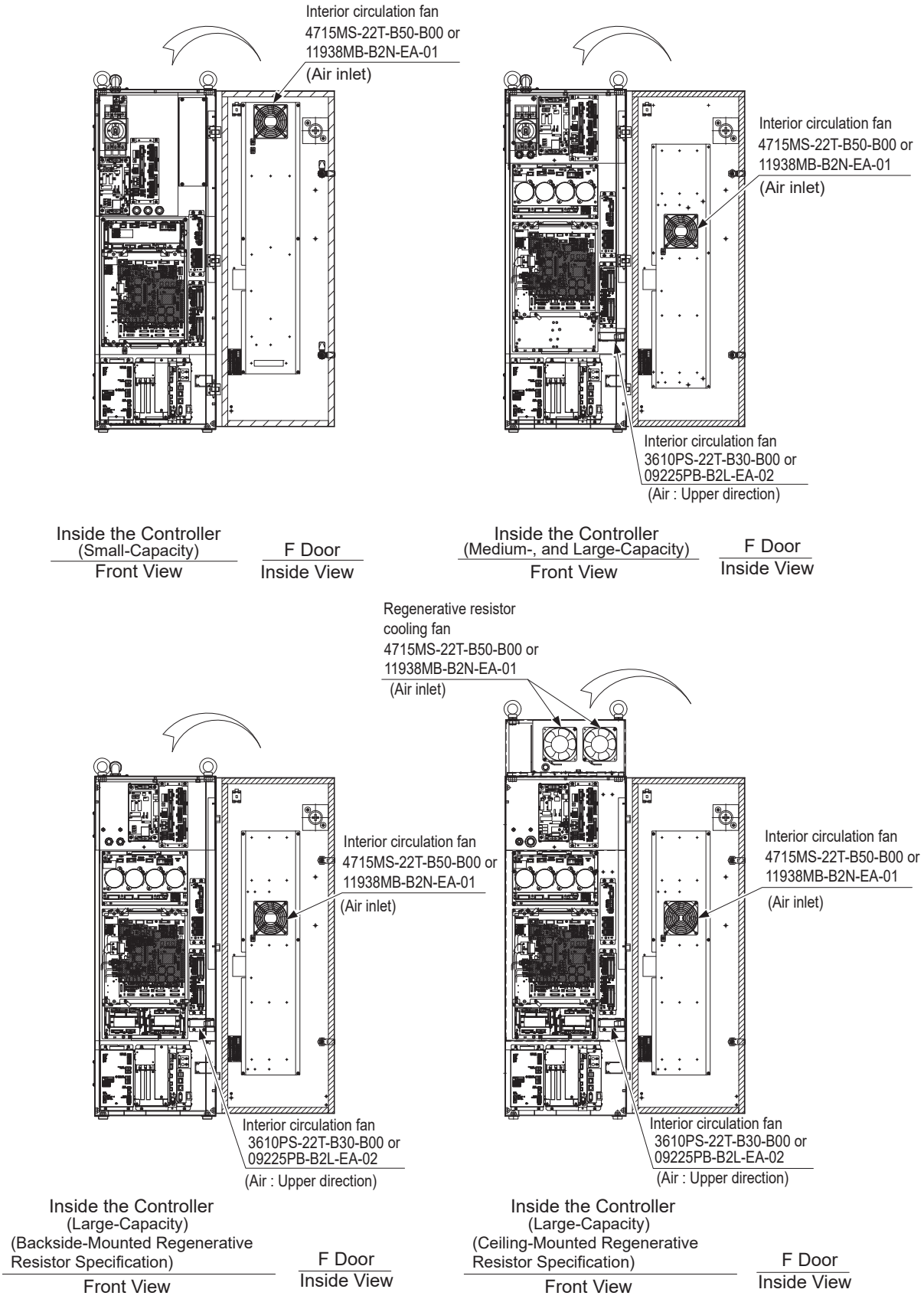
5.1.6 Interior Circulation Fan

5.1.6.1 Replacing the Interior Circulation Fan

NOTE Turn OFF the power before replacing the fan.

■ **Replacement Procedures**

1. Open the F door.
2. Disconnect plug cables connected to the fan.
   (Remove the ground wirings screwed to the fan.)
3. Remove the screws (2 places) fixing the fan.
4. Uninstall the fan from the controller.
5. Install the new fan to the controller.
6. Tighten the screws (2 places) to fix the fan.
7. Connect all the disconnected cables.
   (Connect the ground wirings firmly.)
8. In a medium or large model, a control box fan is also located below the I/O unit.
9. Disconnect plug cables connected to the fan.
   (Remove the ground wirings screwed to the fan.)
10. The base which fixes the fan is tightened together with the I/O unit.
11. Disconnect all the cables connected to the I/O unit.
12. Remove the screws (2 places) fixing the fan.
13. Uninstall the fan from the fan base.
14. Install the new fan to the fan base.
15. Tighten the screws (2 places) to fix the fan.
16. Tighten and fix the fan base together with the I/O unit.
17. Connect all the disconnected cables.
    (Connect the ground wirings firmly.)
18. Close the F door.



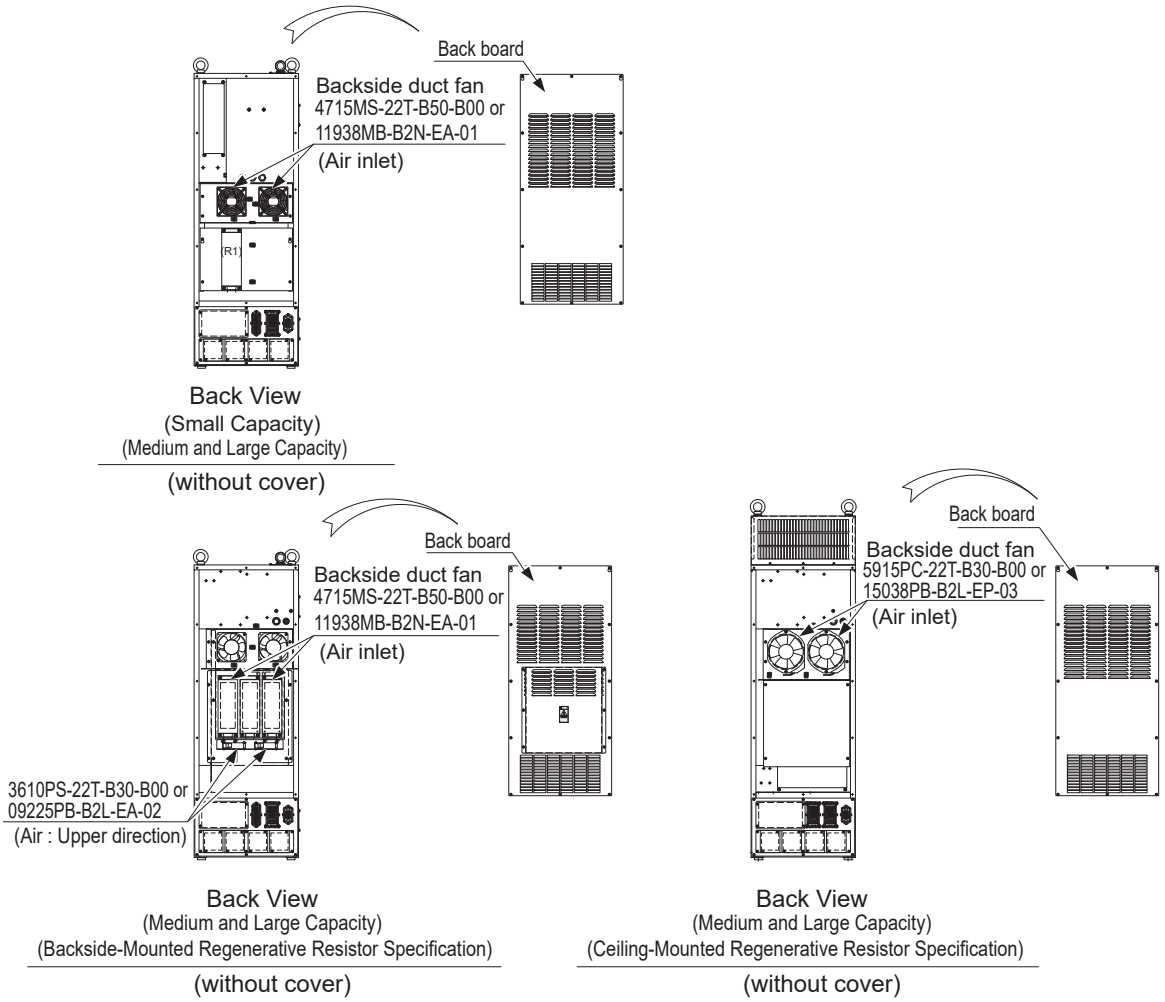
Replacement of Interior Circulation Fan

5.1.6.2 Replacing the Backside Duct Fan

> **NOTE** Turn OFF the power before replacing the fan.

■ **Replacement Procedures**

1. Remove the backboard.
2. Disconnect plug cables connected to the fan.
   (Remove the ground wirings screwed to the fan.)
3. Remove the screws (2 places) fixing the fan.
4. Uninstall the fan from the controller.
5. Install the new fan to the controller.
6. Tighten the screws (2 places) to fix the fan.
7. Connect all the disconnected cables.
   (Connect the ground wirings firmly.)
8. Mount the backboard.



Replacement of Backside Duct Fan

5.2 DX100 Parts List

Table 5-1: DX100 Parts List

No.	Name	Model	Comment
1	SERVOPACK	1)	
2	CPU unit	JZNC-YRK01-1E	
	Control Circuit Board	JANCD-YCP01-E	
3	Robot I/F circuit board	JANCD-YIF01-1E	
4	YPS Unit	JZNC-YPS01-E	
5	Power Supply Contactor Unit	JZRCR-YPU01-1	
6	Machine Safety Unit	JZNC-YSU01-1E	
7	I/O Unit	JZNC-YIU01-E	
8	Brake board	JANCD-YBK01-1E	
9	Interior Circulation Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	
		3610PS-22T-B30-B00 or 09225PB-B2L-EA-02	A medium, large model or large model (backside-mounted regenerative resistor specification)
10	Backside duct fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	A medium, large model or large model (backside-mounted regenerative resistor specification)
		5915PC-22T-B30-B00 or 15038PB-B2L-EP-03	Only a large model (ceiling-mounted regenerative resistor specification)
11	Regenerative resistor cooling fan	3610PS-22T-B30-B00 or 09225PB-B2L-EA-02	Only a large model (backside-mounted regenerative resistor specification)
		4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Only a large model (ceiling-mounted regenerative resistor specification)
12	Power supply contactor unit fuse	0218010P, 10A,250V	Time lag fuse
		GP25, 2.5A, 250V	Alarm Fuse
	I/O Unit Fuse	02173.15P, 3.15A, 250V	Rapid cut fuse
	Machine Safety Unit Fuse	02173.15P, 3.15A, 250V	Rapid cut fuse
	Brake board Fuse	02173.15P, 3.15A, 250V	Rapid cut fuse
	PG power supply fuse	HM10, 1.0A, 250V	Micro fuse (SRDA-EAXA01A REV.C or later)
13	Battery	ER6VC3N 3.6V	

1 The type of the SERVOPACK depends on the manipulator model. For details, see *table 5-2 "SERVOPACK Model List (Integrated Type)"* - *table 5-4 "SERVOPACK Model List (Separated Type)"* .

Table 5-2: SERVOPACK Model List (Integrated Type)

Configuration Device		**MH5,MH5S, MH5L, MH5LS**	**MA1400, MH6, MH6S, MH6-10**	**VA1400**	**MA1900, HP20D, HP20D-6, HP20RD, MPK2**
		Model	**Model**	**Model**	**Model**
SERVOPACK		JZRCR-YSV01-11	JZRCR-YSV02-11	JZRCR-YSV02-31	JZRCR-YSV03-11
PWM Amplifier	S	SRDA-SDA14A01A-E	SRDA-SDA14A01A-E	SRDA-SDA14A01A-E	SRDA-SDA14A01A-E
	L	SRDA-SDA14A01A-E	SRDA-SDA14A01A-E	SRDA-SDA14A01A-E	SRDA-SDA21A01A-E
	U	SRDA-SDA06A01A-E	SRDA-SDA14A01A-E	SRDA-SDA14A01A-E	SRDA-SDA14A01A-E
	R	SRDA-SDA03A01A-E	SRDA-SDA06A01A-E	SRDA-SDA06A01A-E	SRDA-SDA06A01A-E
	B	SRDA-SDA03A01A-E	SRDA-SDA06A01A-E	SRDA-SDA06A01A-E	SRDA-SDA06A01A-E
	T	SRDA-SDA03A01A-E	SRDA-SDA06A01A-E	SRDA-SDA06A01A-E	SRDA-SDA06A01A-E
	E			SRDA-SDA14A01A-E	
Converter		SRDA-COA12A01A-E	SRDA-COA12A01A-E	SRDA-COA12A01A-E	SRDA-COA12A01A-E

Table 5-3: SERVOPACK Model List (Separated Type)

Configuration Device		**MH50, MH50-20, MH50-35, UP50SD, DX1350D, MPL80, MPL800**	**MS80, MS80W, MH80 MPK50**	**VS50, SIA50D**	**ES165D, ES165D-100, ES165RD, ES200D, ES200RD, ES200RD-120, ES280D, ES280D-230, HP165D MH165, MH200, MC2000, UP120ED-165, MPL100, MPL160, MPL300, MPL500**
		Model	**Model**	**Model**	**Model**
SERVOPACK		JZRCR-YSV04-11	JZRCR-YSV05-11	JZRCR-YSV05-41	JZRCR-YSV06-11
PWM Amplifier	S	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E
	L	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E
	U	SRDA-SDA35A01A-E	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E
	R	SRDA-SDA14A01A-E	SRDA-SDA14A01A-E	SRDA-SDA14A01A-E	SRDA-SDA35A01A-E
	B	SRDA-SDA14A01A-E	SRDA-SDA14A01A-E	SRDA-SDA14A01A-E	SRDA-SDA21A01A-E
	T	SRDA-SDA14A01A-E	SRDA-SDA14A01A-E	SRDA-SDA14A01A-E	SRDA-SDA21A01A-E
	E			SRDA-SDA71A01A-E	
Converter		SRDA-COA30A01A-E	SRDA-COA30A01A-E	SRDA-COA30A01A-E	SRDA-COA30A01A-E

Table 5-4: SERVOPACK Model List (Separated Type)

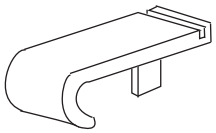
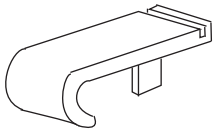
Configuration Device		**MH215, MH250, UP350D, UP350D-200, UP350D-500, MS120 EPH130D, EPH130RLD**	**MA1800**	**SIA30D**
		Model	**Model**	**Model**
SERVOPACK		JZRCR-YSV07-11	JZRCR-YSV08-11	JZRCR-YSV04-21
PWM Amplifier	S	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E
	L	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E
	U	SRDA-SDA71A01A-E	SRDA-SDA35A01A-E	SRDA-SDA35A01A-E
	R	SRDA-SDA35A01A-E	SRDA-SDA06A01A-E	SRDA-SDA14A01A-E
	B	SRDA-SDA35A01A-E	SRDA-SDA06A01A-E	SRDA-SDA14A01A-E
	T	SRDA-SDA35A01A-E	SRDA-SDA06A01A-E	SRDA-SDA14A01A-E
	E			SRDA-SDA06A01A-E
Converter		SRDA-COA30A01A-E	SRDA-COA30A01A-E	SRDA-COA30A01A-E

5.3 Supplied Parts List

The supplied parts of DX100 is as follows.

Parts No.1 to 4 are used for fuse for replacement and No.5, 6and 7 are used as a tool for connecting the I/O.

Table 5-5: Supplied Parts List

No	Parts Name	Dimensions	Pcs	Model	Application
1	10A Glass-Tube fuse		2	0218010P 10A, 250V (LITTEL)	JZRCR-YPU01-□ (1FU, 2FU)
2	3.15A Glass-Tube fuse		3	02173.15P 3.15A, 250V (LITTEL)	JZNC-YSU01-E1(F1, F2) JANCD-YBK01-□E(F1) JZNC-YIU0□-E(F1, F2)
3	2.5A Alarm fuse		2	GP25 2.5A 2.5A, 250V (Daito Communication Apparatus Co., Ltd.)	JZRCR-YPU01-□ (3FU, 4FU)
4	Micro fuse		1	HM10 1.0A 250V (Daito Communication Apparatus Co., Ltd.)	SRDA-EAXA01A (F1) (REV.C or later)
5	WAGO Connector wiring tool		2	231-131 (WAGO Company of Japan, Ltd.)	JZNC-YPS01-E-CN152
6	WAGO Connector wiring tool		1	734-230 (WAGO Company of Japan, Ltd.)	JZNC-YIU0□-E-CN303 JZNC-YSU01-1E-CN211
7	WAGO Terminal block wiring tool		1	210-119SB (WAGO Company of Japan, Ltd.)	MXT

5.4 Recommended Spare Parts

It is recommended that the following parts and components be kept in stock as spare parts for the DX100. The spare parts list for the DX100 is shown below. Product performance can not be guaranteed when using spare parts from any company other than Yaskawa. To buy the spare parts which are ranked B or C, inform the manufacturing number (or order number) of DX100 to Yaskawa representative. The spare parts are ranked as follows:

- Rank A: Expendable and frequently replaced parts
- Rank B: Parts for which replacement may be necessary as a result of frequent operation
- Rank C: Drive unit

NOTE For replacing parts in Rank B or Rank C, contact your Yaskawa representative.

Table 5-6: Recommended Spare Parts List of DX100 for MH5, MH5S, MH5L, MH5LS

Rank	Parts No.	Name	Type	Manufacturer	Qty	Qty per Unit	Remarks
A	1	Battery	ER6VC3N 3.6V	TOSHIBA BATTERY CO., LTD.	1	1	
A	2	YPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	1	1	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	1	1	
A	4	Backside Duct Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	2	2	
A	5	AC Control Power supply Fuse	0218010P	LITTEL	2	2	
A	6	Brake Fuse for AC Cooling Fan	GP25 2.5A 250V	Daito Communication Apparatus Co., Ltd.	2	2	
A	7	24VDC Fuse for I/O Brake Power Supply Fuse for External Axis	02173.15P 3.15A 250V	LITTEL	3	5	
A	8	PG power supply fuse	HM10 1.0A 250V	Daito Communication Apparatus Co., Ltd.	1	1	
C	9	Converter	SRDA-COA12A01A-E	Yaskawa Electric Corporation	1	1	SERVOPACK: JZRCR-YSV01-11
B	10	Servo Amplifier 1, 2,	SRDA-SDA14A01A-E	Yaskawa Electric Corporation	2	2	
B	11	Servo Amplifier 3	SRDA-SDA06A01A-E	Yaskawa Electric Corporation	1	1	
B	12	Servo Amplifier 4,5,6	SRDA-SDA03A01A-E	Yaskawa Electric Corporation	3	3	
B	13	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
C	14	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	1)
B	15	Control Circuit Board	JANCD-YCP01-E	Yaskawa Electric Corporation	1	1	
B	16	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	17	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
C	18	YPS Unit	JZNC-YPS01-E	Yaskawa Electric Corporation	1	1	
B	19	Brake board	JANCD-YBK01-1E	Yaskawa Electric Corporation	1	1	
C	20	Machine Safety Unit	JZNC-YSU01-1E	Yaskawa Electric Corporation	1	1	
C	21	I/O Unit	JZNC-YIU01-E	Yaskawa Electric Corporation	1	1	
C	22	Programming Pendant	JZRCR-YPP01-1	Yaskawa Electric Corporation	1	1	With Cable (8M)

1 The CPU unit (JZNC-YRK01-1E) does not include the robot I/F circuit board (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-7: Recommended Spare Parts List of DX100 for MH6, MH6S, MH6-10, MA1400

Rank	Parts No.	Name	Type	Manufacturer	Qty	Qty per Unit	Remarks
A	1	Battery	ER6VC3N 3.6V	TOSHIBA BATTERY CO., LTD.	1	1	
A	2	YPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	1	1	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	1	1	
A	4	Backside Duct Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	2	2	
A	5	AC Control Power supply Fuse	0218010P	LITTEL	2	2	
A	6	Brake Fuse for AC Cooling Fan	GP25 2.5A 250V	Daito Communication Apparatus Co., Ltd.	2	2	
A	7	24VDC Fuse for I/O Brake Power Supply Fuse for External Axis	02173.15P 3.15A 250V	LITTEL	3	5	
A	8	PG power supply fuse	HM10 1.0A 250V	Daito Communication Apparatus Co., Ltd.	1	1	
C	9	Converter	SRDA-COA12A01A-E	Yaskawa Electric Corporation	1	1	SERVOPACK: JZRCR-YSV02-11
B	10	Servo Amplifier 1, 2, 3	SRDA-SDA14A01A-E	Yaskawa Electric Corporation	3	3	
B	11	Servo Amplifier 4,5,6	SRDA-SDA06A01A-E	Yaskawa Electric Corporation	3	3	
B	12	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
C	13	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	1)
B	14	Control Circuit Board	JANCD-YCP01-E	Yaskawa Electric Corporation	1	1	
B	15	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	16	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
C	17	YPS Unit	JZNC-YPS01-E	Yaskawa Electric Corporation	1	1	
B	18	Brake board	JANCD-YBK01-1E	Yaskawa Electric Corporation	1	1	
C	19	Machine Safety Unit	JZNC-YSU01-1E	Yaskawa Electric Corporation	1	1	
C	20	I/O Unit	JZNC-YIU01-E	Yaskawa Electric Corporation	1	1	
C	21	Programming Pendant	JZRCR-YPP01-1	Yaskawa Electric Corporation	1	1	With Cable (8M)

1 The CPU unit (JZNC-YRK01-1E) does not include the robot I/F circuit board (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-8: Recommended Spare Parts List of DX100 for VA1400

Rank	Parts No.	Name	Type	Manufacturer	Qty	Qty per Unit	Remarks
A	1	Battery	ER6VC3N 3.6V	TOSHIBA BATTERY CO., LTD.	1	1	
A	2	YPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	1	1	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	1	1	
A	4	Backside Duct Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	2	2	
A	5	AC Control Power supply Fuse	0218010P	LITTEL	2	2	
A	6	Brake Fuse for AC Cooling Fan	GP25 2.5A 250V	Daito Communication Apparatus Co., Ltd.	2	2	
A	7	24VDC Fuse for I/O Brake Power Supply Fuse for External Axis	02173.15P 3.15A 250V	LITTEL	3	5	
A	8	PG power supply fuse	HM10 1.0A 250V	Daito Communication Apparatus Co., Ltd.	1	1	
C	9	Converter	SRDA-COA12A01A-E	Yaskawa Electric Corporation	1	1	SERVOPACK: JZRCR-YSV02-31
B	10	Servo Amplifier 1, 2, 3, 7	SRDA-SDA14A01A-E	Yaskawa Electric Corporation	3	4	
B	11	Servo Amplifier 4,5,6	SRDA-SDA06A01A-E	Yaskawa Electric Corporation	3	3	
B	12	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
B	13	External Axis Control Circuit Board	SRDA-EAXB01A	Yaskawa Electric Corporation	1	1	
C	14	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	1)
B	15	Control Circuit Board	JANCD-YCP01-E	Yaskawa Electric Corporation	1	1	
B	16	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	17	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
C	18	YPS Unit	JZNC-YPS01-E	Yaskawa Electric Corporation	1	1	
B	19	Brake board	JANCD-YBK01-1E	Yaskawa Electric Corporation	1	1	
C	20	Machine Safety Unit	JZNC-YSU01-1E	Yaskawa Electric Corporation	1	1	
C	21	I/O Unit	JZNC-YIU01-E	Yaskawa Electric Corporation	1	1	
C	22	Programming Pendant	JZRCR-YPP01-1	Yaskawa Electric Corporation	1	1	With Cable (8M)

1 The CPU unit (JZNC-YRK01-1E) does not include the robot I/F circuit board (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-9: Recommended Spare Parts List of DX100 for MA1900, HP20D, HP20D-6, HP20RD, MPK2

Rank	Parts No.	Name	Type	Manufacturer	Qty	Qty per Unit	Remarks
A	1	Battery	ER6VC3N 3.6V	TOSHIBA BATTERY CO., LTD.	1	1	
A	2	YPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	1	1	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	1	1	
A	4	Backside Duct Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	2	2	
A	5	AC Control Power supply Fuse	0218010P	LITTEL	2	2	
A	6	Brake Fuse for AC Cooling Fan	GP25 2.5A 250V	Daito Communication Apparatus Co., Ltd.	2	2	
A	7	24VDC Fuse for I/O Brake Power Supply Fuse for External Axis	02173.15P 3.15A 250V	LITTEL	3	5	
A	8	PG power supply fuse	HM10 1.0A 250V	Daito Communication Apparatus Co., Ltd.	1	1	
C	9	Converter	SRDA-COA12A01A-E	Yaskawa Electric Corporation	1	1	SERVOPACK: JZRCR-YSV03-11
B	10	Servo Amplifier 1, 3	SRDA-SDA14A01A-E	Yaskawa Electric Corporation	2	2	
B	11	Servo Amplifier 2	SRDA-SDA21A01A-E	Yaskawa Electric Corporation	1	1	
B	12	Servo Amplifier 4,5,6	SRDA-SDA06A01A-E	Yaskawa Electric Corporation	3	3	
B	13	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
C	14	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	1)
B	15	Control Circuit Board	JANCD-YCP01-E	Yaskawa Electric Corporation	1	1	
B	16	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	17	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
C	18	YPS Unit	JZNC-YPS01-E	Yaskawa Electric Corporation	1	1	
B	19	Brake board	JANCD-YBK01-1E	Yaskawa Electric Corporation	1	1	
C	20	Machine Safety Unit	JZNC-YSU01-1E	Yaskawa Electric Corporation	1	1	
C	21	I/O Unit	JZNC-YIU01-E	Yaskawa Electric Corporation	1	1	
C	22	Programming Pendant	JZRCR-YPP01-1	Yaskawa Electric Corporation	1	1	With Cable (8M)

1 The CPU unit (JZNC-YRK01-1E) does not include the robot I/F circuit board (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-10: Recommended Spare Parts List of DX100 for MH50

Rank	Parts No.	Name	Type	Manufacturer	Qty	Qty per Unit	Remarks
A	1	Battery	ER6VC3N 3.6V	TOSHIBA BATTERY CO., LTD.	1	1	
A	2	YPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	1	1	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	1	1	
A	4	Interior Circulation Fan	3610PS-22T-B30-B00 or 09225PB-B2L-EA-02	Minebea Co., Ltd	1	1	
A	5	Backside Duct Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	2	2	
A	6	AC Control Power supply Fuse	0218010P	LITTEL	2	2	
A	7	Brake Fuse for AC Cooling Fan	GP25 2.5A 250V	Daito Communication Apparatus Co., Ltd.	2	2	
A	8	24VDC Fuse for I/O Brake Power Supply Fuse for External Axis	02173.15P 3.15A 250V	LITTEL	3	5	
A	9	PG power supply fuse	HM10 1.0A 250V	Daito Communication Apparatus Co., Ltd.	1	1	
C	10	Converter	SRDA-COA30A01A-E	Yaskawa Electric Corporation	1	1	
B	11	Servo Amplifier 1, 2	SRDA-SDA71A01A-E	Yaskawa Electric Corporation	2	2	SERVOPACK: JZRCR-YSV04-11
B	12	Servo Amplifier 3	SRDA-SDA35A01A-E	Yaskawa Electric Corporation	1	1	
B	13	Servo Amplifier 4,5,6	SRDA-SDA14A01A-E	Yaskawa Electric Corporation	3	3	
B	14	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
C	15	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	1)
B	16	Control Circuit Board	JANCD-YCP01-E	Yaskawa Electric Corporation	1	1	
B	17	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	18	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
C	19	YPS Unit	JZNC-YPS01-E	Yaskawa Electric Corporation	1	1	
B	20	Brake board	JANCD-YBK01-1E	Yaskawa Electric Corporation	1	1	
C	21	Machine Safety Unit	JZNC-YSU01-1E	Yaskawa Electric Corporation	1	1	
C	22	I/O Unit	JZNC-YIU01-E	Yaskawa Electric Corporation	1	1	
C	23	Programming Pendant	JZRCR-YPP01-1	Yaskawa Electric Corporation	1	1	With Cable (8M)

1 The CPU unit (JZNC-YRK01-1E) does not include the robot I/F circuit board (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-11: Recommended Spare Parts List of DX100 for MS80

Rank	Parts No.	Name	Type	Manufacturer	Qty	Qty per Unit	Remarks
A	1	Battery	ER6VC3N 3.6V	TOSHIBA BATTERY CO., LTD.	1	1	
A	2	YPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	1	1	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	1	1	
A	4	Interior Circulation Fan	3610PS-22T-B30-B00 or 09225PB-B2L-EA-02	Minebea Co., Ltd	1	1	
A	5	Backside Duct Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	2	2	
A	6	AC Control Power supply Fuse	0218010P	LITTEL	2	2	
A	7	Brake Fuse for AC Cooling Fan	GP25 2.5A 250V	Daito Communication Apparatus Co., Ltd.	2	2	
A	8	24VDC Fuse for I/O Brake Power Supply Fuse for External Axis	02173.15P 3.15A 250V	LITTEL	3	5	
A	9	PG power supply fuse	HM10 1.0A 250V	Daito Communication Apparatus Co., Ltd.	1	1	
C	10	Converter	SRDA-COA30A01A-E	Yaskawa Electric Corporation	1	1	
B	11	Servo Amplifier 1, 2, 3	SRDA-SDA71A01A-E	Yaskawa Electric Corporation	3	3	SERVOPACK: JZRCR-YSV05-11
B	12	Servo Amplifier 4,5,6	SRDA-SDA14A01A-E	Yaskawa Electric Corporation	3	3	
B	13	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
C	14	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	1)
B	15	Control Circuit Board	JANCD-YCP01-E	Yaskawa Electric Corporation	1	1	
B	16	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	17	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
C	18	YPS Unit	JZNC-YPS01-E	Yaskawa Electric Corporation	1	1	
B	19	Brake board	JANCD-YBK01-1E	Yaskawa Electric Corporation	1	1	
C	20	Machine Safety Unit	JZNC-YSU01-1E	Yaskawa Electric Corporation	1	1	
C	21	I/O Unit	JZNC-YIU01-E	Yaskawa Electric Corporation	1	1	
C	22	Programming Pendant	JZRCR-YPP01-1	Yaskawa Electric Corporation	1	1	With Cable (8M)

1 The CPU unit (JZNC-YRK01-1E) does not include the robot I/F circuit board (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-12: Recommended Spare Parts List of DX100 for VS50, SIA50D

Rank	Parts No.	Name	Type	Manufacturer	Qty	Qty per Unit	Remarks
A	1	Battery	ER6VC3N 3.6V	TOSHIBA BATTERY CO., LTD.	1	1	
A	2	YPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	1	1	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	1	1	
A	4	Interior Circulation Fan	3610PS-22T-B30-B00 or 09225PB-B2L-EA-02	Minebea Co., Ltd	1	1	
A	5	Backside Duct Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	2	2	
A	6	AC Control Power supply Fuse	0218010P	LITTEL	2	2	
A	7	Brake Fuse for AC Cooling Fan	GP25 2.5A 250V	Daito Communication Apparatus Co., Ltd.	2	2	
A	8	24VDC Fuse for I/O Brake Power Supply Fuse for External Axis	02173.15P 3.15A 250V	LITTEL	3	5	
A	9	PG power supply fuse	HM10 1.0A 250V	Daito Communication Apparatus Co., Ltd.	1	1	
C	10	Converter	SRDA-COA30A01A-E	Yaskawa Electric Corporation	1	1	
B	11	Servo Amplifier 1, 2, 3, 7	SRDA-SDA71A01A-E	Yaskawa Electric Corporation	3	4	SERVOPACK: JZRCR-YSV05-41
B	12	Servo Amplifier 4,5,6	SRDA-SDA14A01A-E	Yaskawa Electric Corporation	3	3	
B	13	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
B	14	External Axis Control Circuit Board	SRDA-EAXB01A	Yaskawa Electric Corporation	1	1	
C	15	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	
B	16	Control Circuit Board	JANCD-YCP01-E	Yaskawa Electric Corporation	1	1	
B	17	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	1)
C	18	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
C	19	YPS Unit	JZNC-YPS01-E	Yaskawa Electric Corporation	1	1	
B	20	Brake board	JANCD-YBK01-1E	Yaskawa Electric Corporation	1	1	
C	21	Machine Safety Unit	JZNC-YSU01-1E	Yaskawa Electric Corporation	1	1	
C	22	I/O Unit	JZNC-YIU01-E	Yaskawa Electric Corporation	1	1	
C	23	Programming Pendant	JZRCR-YPP01-1	Yaskawa Electric Corporation	1	1	With Cable (8M)

1 The CPU unit (JZNC-YRK01-1E) does not include the robot I/F circuit board (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-13: Recommended Spare Parts List of DX100 for ES165, ES200D, HP165D

Rank	Parts No.	Name	Type	Manufacturer	Qty	Qty per Unit	Remarks
A	1	Battery	ER6VC3N 3.6V	TOSHIBA BATTERY CO., LTD.	1	1	
A	2	YPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	1	1	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	1	1	
A	4	Interior Circulation Fan	3610PS-22T-B30-B00 or 09225PB-B2L-EA-02	Minebea Co., Ltd	1	1	
A	5	Backside Duct Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	2	2	
A	6	AC Control Power supply Fuse	0218010P	LITTEL	2	2	
A	7	Brake Fuse for AC Cooling Fan	GP25 2.5A 250V	Daito Communication Apparatus Co., Ltd.	2	2	
A	8	24VDC Fuse for I/O Brake Power Supply Fuse for External Axis	02173.15P 3.15A 250V	LITTEL	3	5	
A	9	PG power supply fuse	HM10 1.0A 250V	Daito Communication Apparatus Co., Ltd.	1	1	
C	10	Converter	SRDA-COA30A01A-E	Yaskawa Electric Corporation	1	1	
B	11	Servo Amplifier 1, 2, 3	SRDA-SDA71A01A-E	Yaskawa Electric Corporation	3	3	SERVOPACK: JZRCR-YSV06-11
B	12	Servo Amplifier 4	SRDA-SDA35A01A-E	Yaskawa Electric Corporation	1	1	
B	13	Servo Amplifier 5,6	SRDA-SDA21A01A-E	Yaskawa Electric Corporation	2	2	
B	14	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
C	15	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	1)
B	16	Control Circuit Board	JANCD-YCP01-E	Yaskawa Electric Corporation	1	1	
B	17	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	18	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
C	19	YPS Unit	JZNC-YPS01-E	Yaskawa Electric Corporation	1	1	
B	20	Brake board	JANCD-YBK01-1E	Yaskawa Electric Corporation	1	1	
C	21	Machine Safety Unit	JZNC-YSU01-1E	Yaskawa Electric Corporation	1	1	
C	22	I/O Unit	JZNC-YIU01-E	Yaskawa Electric Corporation	1	1	
C	23	Programming Pendant	JZRCR-YPP01-1	Yaskawa Electric Corporation	1	1	With Cable (8M)

1 The CPU unit (JZNC-YRK01-1E) does not include the robot I/F circuit board (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-14: Recommended Spare Parts List of DX100 for UP350D, UP350D-200, UP350D-500, MS120

Rank	Parts No.	Name	Type	Manufacturer	Qty	Qty per Unit	Remarks
A	1	Battery	ER6VC3N 3.6V	TOSHIBA BATTERY CO., LTD.	1	1	
A	2	YPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	1	1	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	1	1	
A	4	Interior Circulation Fan	3610PS-22T-B30-B00 or 09225PB-B2L-EA-02	Minebea Co., Ltd	1	1	
A	5	Backside Duct Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	2	2	
A	6	AC Control Power supply Fuse	0218010P	LITTEL	2	2	
A	7	Brake Fuse for AC Cooling Fan	GP25 2.5A 250V	Daito Communication Apparatus Co., Ltd.	2	2	
A	8	24VDC Fuse for I/O Brake Power Supply Fuse for External Axis	02173.15P 3.15A 250V	LITTEL	3	5	
A	9	PG power supply fuse	HM10 1.0A 250V	Daito Communication Apparatus Co., Ltd.	1	1	
C	10	Converter	SRDA-COA30A01A-E	Yaskawa Electric Corporation	1	1	
B	11	Servo Amplifier 1, 2, 3	SRDA-SDA71A01A-E	Yaskawa Electric Corporation	3	3	SERVOPACK: JZRCR-YSV07-11
B	12	Servo Amplifier 4,5,6	SRDA-SDA35A01A-E	Yaskawa Electric Corporation	3	3	
B	13	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
C	14	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	1)
B	15	Control Circuit Board	JANCD-YCP01-E	Yaskawa Electric Corporation	1	1	
B	16	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	17	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
C	18	YPS Unit	JZNC-YPS01-E	Yaskawa Electric Corporation	1	1	
B	19	Brake board	JANCD-YBK01-1E	Yaskawa Electric Corporation	1	1	
C	20	Machine Safety Unit	JZNC-YSU01-1E	Yaskawa Electric Corporation	1	1	
C	21	I/O Unit	JZNC-YIU01-E	Yaskawa Electric Corporation	1	1	
C	22	Programming Pendant	JZRCR-YPP01-1	Yaskawa Electric Corporation	1	1	With Cable (8M)

1 The CPU unit (JZNC-YRK01-1E) does not include the robot I/F circuit board (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-15: Recommended Spare Parts List of DX100 for MA1800

Rank	Parts No.	Name	Type	Manufacturer	Qty	Qty per Unit	Remarks
A	1	Battery	ER6VC3N 3.6V	TOSHIBA BATTERY CO., LTD.	1	1	
A	2	YPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	1	1	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	1	1	
A	4	Interior Circulation Fan	3610PS-22T-B30-B00 or 09225PB-B2L-EA-02	Minebea Co., Ltd	1	1	
A	5	Backside Duct Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	2	2	
A	6	AC Control Power supply Fuse	0218010P	LITTEL	2	2	
A	7	Brake Fuse for AC Cooling Fan	GP25 2.5A 250V	Daito Communication Apparatus Co., Ltd.	2	2	
A	8	24VDC Fuse for I/O Brake Power Supply Fuse for External Axis	02173.15P 3.15A 250V	LITTEL	3	5	
A	9	PG power supply fuse	HM10 1.0A 250V	Daito Communication Apparatus Co., Ltd.	1	1	
C	10	Converter	SRDA-COA30A01A-E	Yaskawa Electric Corporation	1	1	
B	11	Servo Amplifier 1, 2	SRDA-SDA71A01A-E	Yaskawa Electric Corporation	2	2	SERVOPACK: JZRCR-YSV08-11
	12	Servo Amplifier 3	SRDA-SDA35A01A-E	Yaskawa Electric Corporation	1	1	
B	13	Servo Amplifier 4,5,6	SRDA-SDA06A01A-E	Yaskawa Electric Corporation	3	3	
B	14	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
C	15	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	1)
B	16	Control Circuit Board	JANCD-YCP01-E	Yaskawa Electric Corporation	1	1	
B	17	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	18	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
C	19	YPS Unit	JZNC-YPS01-E	Yaskawa Electric Corporation	1	1	
B	20	Brake board	JANCD-YBK01-1E	Yaskawa Electric Corporation	1	1	
C	21	Machine Safety Unit	JZNC-YSU01-1E	Yaskawa Electric Corporation	1	1	
C	22	I/O Unit	JZNC-YIU01-E	Yaskawa Electric Corporation	1	1	
C	23	Programming Pendant	JZRCR-YPP01-1	Yaskawa Electric Corporation	1	1	With Cable (8M)

1 The CPU unit (JZNC-YRK01-1E) does not include the robot I/F circuit board (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-16: Recommended Spare Parts List of DX100 for MH165, MH200, ES280D, ES280D-230, MPL100, MPL160, MPL300, MPL500

Rank	Parts No.	Name	Type	Manufacturer	Qty	Qty per Unit	Remarks
A	1	Battery	ER6VC3N 3.6V	TOSHIBA BATTERY CO., LTD.	1	1	
A	2	YPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	1	1	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	1	1	
A	4	Interior Circulation Fan	3610PS-22T-B30-B00 or 09225PB-B2L-EA-02	Minebea Co., Ltd	1	1	
A	5	Backside Duct Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	2	2	
A	6	Regenerative Resistor Cooling Fan	3610PS-22T-B30-B00 or 09225PB-B2L-EA-02	Minebea Co., Ltd	2	2	
A	7	AC Control Power supply Fuse	0218010P	LITTEL	2	2	
A	8	Brake Fuse for AC Cooling Fan	GP25 2.5A 250V	Daito Communication Apparatus Co., Ltd.	2	2	
A	9	24VDC Fuse for I/O Brake Power Supply Fuse for External Axis	02173.15P 3.15A 250V	LITTEL	3	5	
A	10	PG power supply fuse	HM10 1.0A 250V	Daito Communication Apparatus Co., Ltd.	1	1	
C	11	Converter	SRDA-COA30A01A-E	Yaskawa Electric Corporation	1	1	
B	12	Servo Amplifier 1, 2, 3	SRDA-SDA71A01A-E	Yaskawa Electric Corporation	3	3	SERVOPACK: JZRCR-YSV06-11
B	13	Servo Amplifier 4	SRDA-SDA35A01A-E	Yaskawa Electric Corporation	1	1	
B	14	Servo Amplifier 5,6	SRDA-SDA21A01A-E	Yaskawa Electric Corporation	2	2	
B	15	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
C	16	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	1)
B	17	Control Circuit Board	JANCD-YCP01-E	Yaskawa Electric Corporation	1	1	
B	18	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	19	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
C	20	YPS Unit	JZNC-YPS01-E	Yaskawa Electric Corporation	1	1	
B	21	Brake board	JANCD-YBK01-1E	Yaskawa Electric Corporation	1	1	
C	22	Machine Safety Unit	JZNC-YSU01-1E	Yaskawa Electric Corporation	1	1	
C	23	I/O Unit	JZNC-YIU01-E	Yaskawa Electric Corporation	1	1	
C	24	Programming Pendant	JZRCR-YPP01-1	Yaskawa Electric Corporation	1	1	With Cable (8M)

1 The CPU unit (JZNC-YRK01-1E) does not include the robot I/F circuit board (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-17: Recommended Spare Parts List of DX100 for MH215, MH250

Rank	Parts No.	Name	Type	Manufacturer	Qty	Qty per Unit	Remarks
A	1	Battery	ER6VC3N 3.6V	TOSHIBA BATTERY CO., LTD.	1	1	
A	2	YPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	1	1	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	1	1	
A	4	Interior Circulation Fan	3610PS-22T-B30-B00 or 09225PB-B2L-EA-02	Minebea Co., Ltd	1	1	
A	5	Backside Duct Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	2	2	
A	6	Regenerative Resistor Cooling Fan	3610PS-22T-B30-B00 or 09225PB-B2L-EA-02	Minebea Co., Ltd	2	2	
A	7	AC Control Power supply Fuse	0218010P	LITTEL	2	2	
A	8	Brake Fuse for AC Cooling Fan	GP25 2.5A 250V	Daito Communication Apparatus Co., Ltd.	2	2	
A	9	24VDC Fuse for I/O Brake Power Supply Fuse for External Axis	02173.15P 3.15A 250V	LITTEL	3	5	
A	10	PG power supply fuse	HM10 1.0A 250V	Daito Communication Apparatus Co., Ltd.	1	1	
C	11	Converter	SRDA-COA30A01A-E	Yaskawa Electric Corporation	1	1	
B	12	Servo Amplifier 1, 2, 3	SRDA-SDA71A01A-E	Yaskawa Electric Corporation	3	3	SERVOPACK: JZRCR-YSV07-11
B	13	Servo Amplifier 4,5,6	SRDA-SDA35A01A-E	Yaskawa Electric Corporation	1	1	
B	14	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
C	15	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	1)
B	16	Control Circuit Board	JANCD-YCP01-E	Yaskawa Electric Corporation	1	1	
B	17	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	18	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
C	19	YPS Unit	JZNC-YPS01-E	Yaskawa Electric Corporation	1	1	
B	20	Brake board	JANCD-YBK01-1E	Yaskawa Electric Corporation	1	1	
C	21	Machine Safety Unit	JZNC-YSU01-1E	Yaskawa Electric Corporation	1	1	
C	22	I/O Unit	JZNC-YIU01-E	Yaskawa Electric Corporation	1	1	
C	23	Programming Pendant	JZRCR-YPP01-1	Yaskawa Electric Corporation	1	1	With Cable (8M)

1 The CPU unit (JZNC-YRK01-1E) does not include the robot I/F circuit board (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-18: Recommended Spare Parts List of DX100 for MPK50

Rank	Parts No.	Name	Type	Manufacturer	Qty	Qty per Unit	Remarks
A	1	Battery	ER6VC3N 3.6V	TOSHIBA BATTERY CO., LTD.	1	1	
A	2	YPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	1	1	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	1	1	
A	4	Interior Circulation Fan	3610PS-22T-B30-B00 or 09225PB-B2L-EA-02	Minebea Co., Ltd	1	1	
A	5	Backside Duct Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	2	2	
A	6	Regenerative Resistor Cooling Fan	3610PS-22T-B30-B00 or 09225PB-B2L-EA-02	Minebea Co., Ltd	2	2	
A	7	AC Control Power supply Fuse	0218010P	LITTEL	2	2	
A	8	Brake Fuse for AC Cooling Fan	GP25 2.5A 250V	Daito Communication Apparatus Co., Ltd.	2	2	
A	9	24VDC Fuse for I/O Brake Power Supply Fuse for External Axis	02173.15P 3.15A 250V	LITTEL	3	5	
A	10	PG power supply fuse	HM10 1.0A 250V	Daito Communication Apparatus Co., Ltd.	1	1	
C	11	Converter	SRDA-COA30A01A-E	Yaskawa Electric Corporation	1	1	
B	12	Servo Amplifier 1, 2, 3	SRDA-SDA71A01A-E	Yaskawa Electric Corporation	3	3	SERVOPACK: JZRCR-YSV05-11
B	13	Servo Amplifier 4,5,6	SRDA-SDA14A01A-E	Yaskawa Electric Corporation	1	1	
B	14	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
C	15	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	1)
B	16	Control Circuit Board	JANCD-YCP01-E	Yaskawa Electric Corporation	1	1	
B	17	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	18	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
C	19	YPS Unit	JZNC-YPS01-E	Yaskawa Electric Corporation	1	1	
B	20	Brake board	JANCD-YBK01-1E	Yaskawa Electric Corporation	1	1	
C	21	Machine Safety Unit	JZNC-YSU01-1E	Yaskawa Electric Corporation	1	1	
C	22	I/O Unit	JZNC-YIU01-E	Yaskawa Electric Corporation	1	1	
C	23	Programming Pendant	JZRCR-YPP01-1	Yaskawa Electric Corporation	1	1	With Cable (8M)

1 The CPU unit (JZNC-YRK01-1E) does not include the robot I/F circuit board (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-19: Recommended Spare Parts List of DX100 for EPH130D, EPH130RLD

Rank	Parts No.	Name	Type	Manufacturer	Qty	Qty per Unit	Remarks
A	1	Battery	ER6VC3N 3.6V	TOSHIBA BATTERY CO., LTD.	1	1	
A	2	YPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	1	1	
A	3	Interior Circulation Fan	3610PS-22T-B30-B00 or 09225PB-B2L-EA-02	Minebea Co., Ltd	1	1	
A	4	Interior Circulation Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	1	1	
A	5	Regenerative Resistor Cooling Fan	4715MS-22T-B50-B00 or 11938MB-B2N-EA-01	Minebea Co., Ltd	2	2	
A	6	Backside Duct Fan	5915PC-22T-B30-B00 or 15038PB-B2L-EP-03	Minebea Co., Ltd	2	2	
A	7	AC Control Power supply Fuse	0218010P	LITTEL	2	2	
A	8	Brake Fuse for AC Cooling Fan	GP25 2.5A 250V	Daito Communication Apparatus Co., Ltd.	2	2	
A	9	24VDC Fuse for I/O Brake Power Supply Fuse for External Axis	02173.15P 3.15A 250V	LITTEL	3	5	
A	10	PG power supply fuse	HM10 1.0A 250V	Daito Communication Apparatus Co., Ltd.	1	1	
C	11	Converter	SRDA-COA30A01A-E	Yaskawa Electric Corporation	1	1	
B	12	Servo Amplifier 1, 2, 3	SRDA-SDA71A01A-E	Yaskawa Electric Corporation	3	3	SERVOPACK: JZRCR-YSV07-11
B	13	Servo Amplifier 4,5,6	SRDA-SDA35A01A-E	Yaskawa Electric Corporation	1	1	
B	14	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
C	15	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	1)
B	16	Control Circuit Board	JANCD-YCP01-E	Yaskawa Electric Corporation	1	1	
B	17	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	18	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
C	19	YPS Unit	JZNC-YPS01-E	Yaskawa Electric Corporation	1	1	
B	20	Brake board	JANCD-YBK01-1E	Yaskawa Electric Corporation	1	1	
C	21	Machine Safety Unit	JZNC-YSU01-1E	Yaskawa Electric Corporation	1	1	
C	22	I/O Unit	JZNC-YIU01-E	Yaskawa Electric Corporation	1	1	
C	23	Programming Pendant	JZRCR-YPP01-1	Yaskawa Electric Corporation	1	1	With Cable (8M)

1 The CPU unit (JZNC-YRK01-1E) does not include the robot I/F circuit board (JANCD-YIF01-1E). Must be ordered separately if required.

6 Operations After Replacing Parts

WARNING

- **Before operating the manipulator, check that the SERVO ON lamp turns OFF when the emergency stop buttons on the front door of the DX100 and the programming pendant are pressed.**

Injury or damage to machinery may result if the manipulator cannot be stopped in case of an emergency.

- **Observe the following precautions when performing teaching operations within the P-point maximum envelope of the manipulator:**
  - **Be sure to use a lockout device to the safeguarding when going inside.**
    Also, display the sign that the operation is being performed inside the safeguarding and make sure no one closes the safeguarding.
  - **View the manipulator from the front whenever possible.**
  - **Always follow the predetermined operating procedure.**
  - **Ensure that you have a safe place to retreat in case of emergency.**

Improper or unintended manipulator operation may result in injury.

- **Confirm that no persons are present in the P-point maximum envelope of the manipulator and that you are in a safe location before:**
  - **Turning ON the DX100 power.**
  - **Moving the manipulator with the programming pendant**

Injury may result if anyone enters the P-point maximum envelope of the manipulator during operation.

- **Always press the emergency stop button immediately if there are problems.**

Emergency stop buttons are located at the upper right corner of the front door of the DX100 and on the upper right of the programming pendant.

CAUTION

- **Perform the following inspection procedures prior to conducting manipulator teaching. If problems are found, repair them immediately, and be sure that all other necessary processing has been performed.**

  - **Check for problems in manipulator movement.**
  - **Check for damage to insulation and sheathing of external wires.**
  - **Always return the programming pendant to the hook on the DX100 cabinet after use.**

The programming pendant can be damaged if it is left in the P-point maximum envelope of the manipulator, on the floor, or near fixtures.

6.1 Home Position Calibration

6.1.1 Home Position Calibration

NOTE

Teaching and playback are not possible before home position calibration is complete.

In a system with two or more manipulators, the home position of all the manipulators must be calibrated before starting teaching or playback.

Set the security mode to the management mode to perform home position calibration.

Home position calibration is an operation in which the home position and absolute encoder position coincide. Although this operation is performed prior to shipment at the factory, the following cases require this operation to be performed again.

- Change in the combination of the manipulator and DX100
- Replacement of the motor or absolute encoder
- Clearing stored memory (by replacement of NIF01 circuit board, weak battery, etc.)
- Home position deviation caused by hitting the manipulator against a workpiece, etc.

To calibrate the home position, use the axis keys to calibrate the mark for the home position on each axis so that the manipulator can take its posture for the home position. There are two operations for home position calibration:

- All the axes can be moved at the same time
- Axes can be moved individually

If the absolute data of the home position is already known, set the absolute data again after completing home position registration.

SUPPLE -MENT

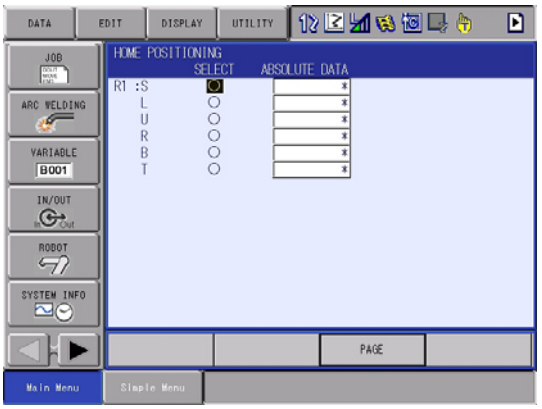
Home Position

The home position is the position with the pulse value "0" for each axis. See *chapter 6.1.3 “Manipulator Home Position”* .

6.1.2 Calibrating Operation

6.1.2.1 Registering All Axes at One Time

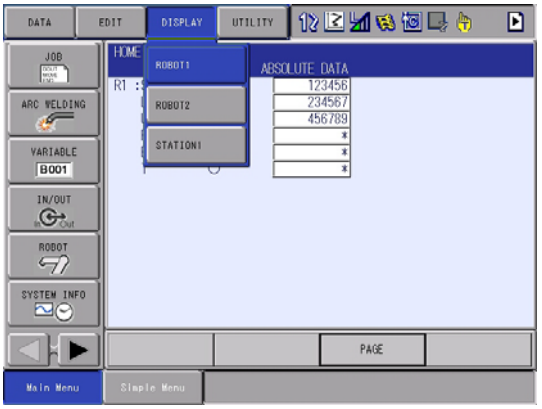
1. Select {ROBOT} under the main menu.
2. Select {HOME POSITION}.
   – The HOME POSITIONING window appears.

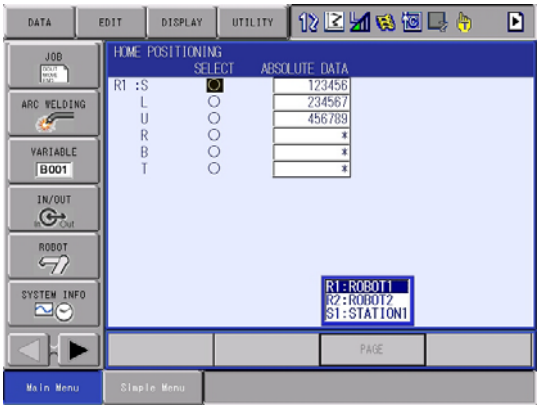


3. Select {DISPLAY} under the menu,

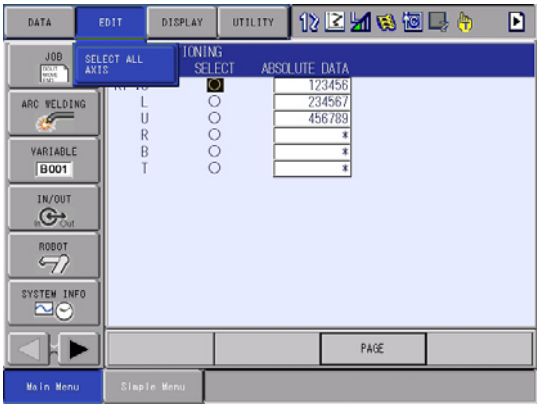
or select "PAGE" to display the selection window for the control group,

or press .
   – The pull-down menu appears.

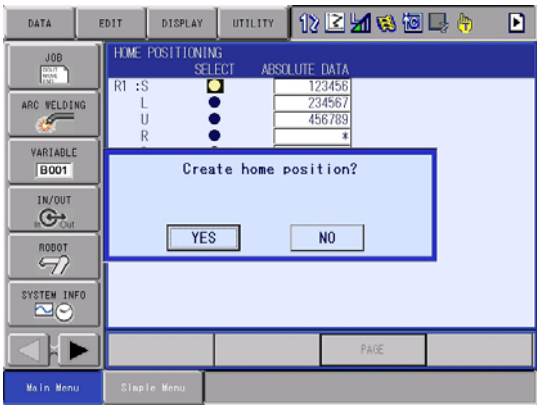




4. Select the desired control group.
5. Select {EDIT} under the menu.
   – The pull-down menu appears.



6. Select {SELECT ALL AXES}.
   – The confirmation dialog box appears.

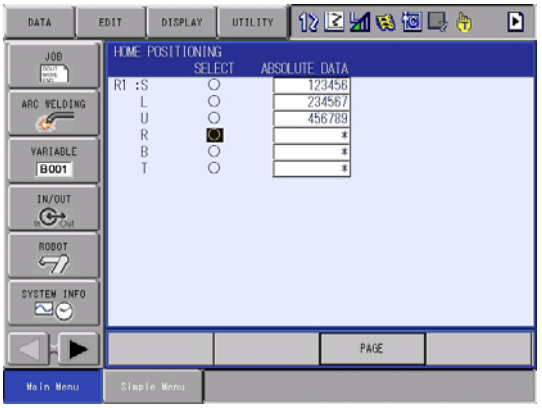


7. Select “YES.”
   – Displayed position data of all axes are registered as home position. When “NO” is selected, the registration will be canceled.

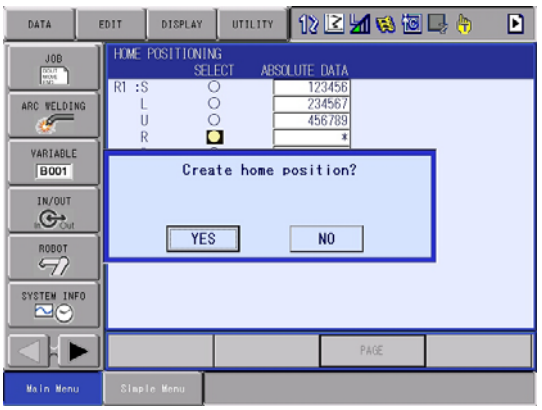
6.1.2.2 Registering Individual Axes

1. Select {ROBOT} under the main menu.
2. Select {HOME POSITION}.
3. Select the desired control group.
   – Perform steps 3 and 4 which have been described in "Registering All Axes at One Time" to select the desired control group.

4. Select the axis to be registered.



– The confirmation dialog box appears.



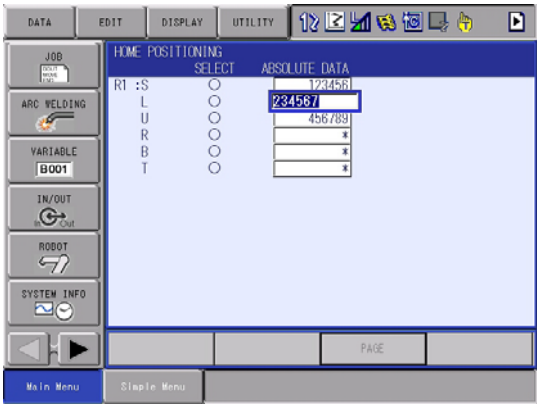
5. Select "YES".

– Displayed position data of the axis are registered as home position. When “NO” is selected, the registration will be canceled.

6.1.2.3 Changing the Absolute Data

To change the absolute data of the axis when home position calibration is completed, perform the following:

1. Select {ROBOT} under the main menu.
2. Select {HOME POSITION}.
3. Select the desired control group.
   – Perform steps 3 and 4 which have been described in "Registering All Axes at One Time" to select the desired control group
4. Select the absolute data to be registered.
   – The number can now be entered.

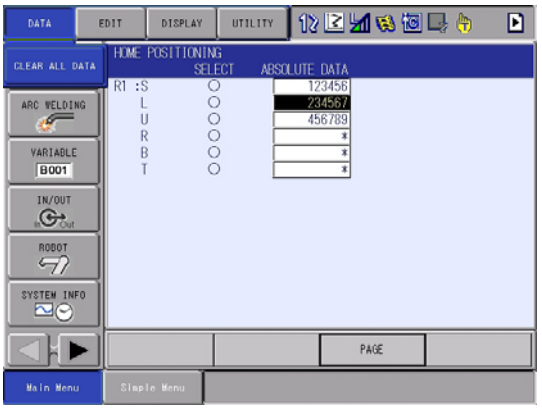


5. Enter the absolute data using the numeric keys.
6. Press [ENTER].
   – Absolute data are modified.

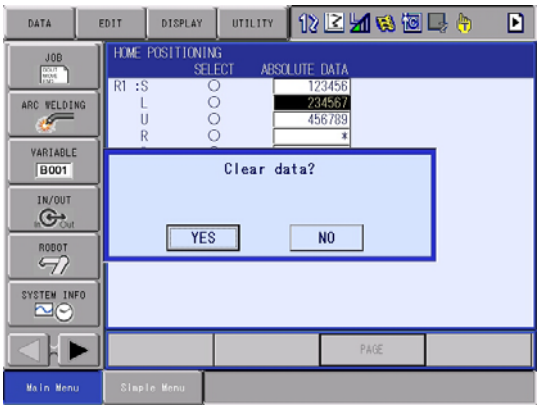
6.1.2.4 Clearing Absolute Data

1. Select {ROBOT} under the main menu.
2. Select {HOME POSITION}.
   – Perform steps 2, 3, and 4 which have been described in "Registering All Axes at One Time" to display the HOME POSITIONING window and select the desired control group.

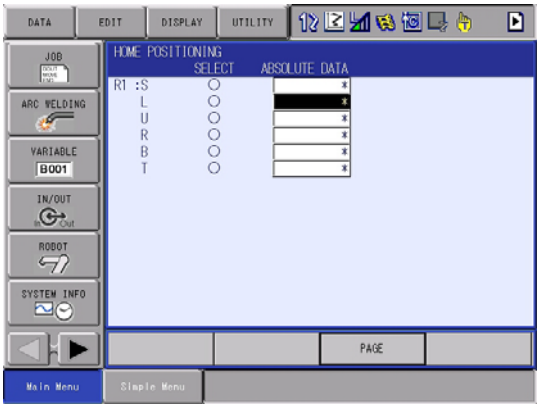
3. Select {DATA} under the menu.
   – The pull-down menu appears.



4. Select {CLEAR ALL DATA}.
   – The confirmation dialog box appears.

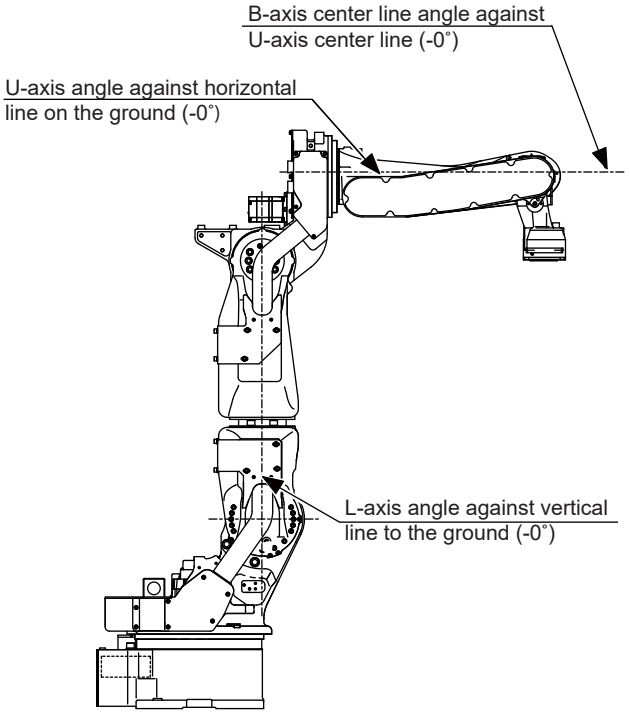


5. Select "YES".
   – The all absolute data are cleared. When "NO" is selected, the operation will be canceled.



6.1.3 Manipulator Home Position

With the MOTOMAN-VA1400, the home position is as follows.



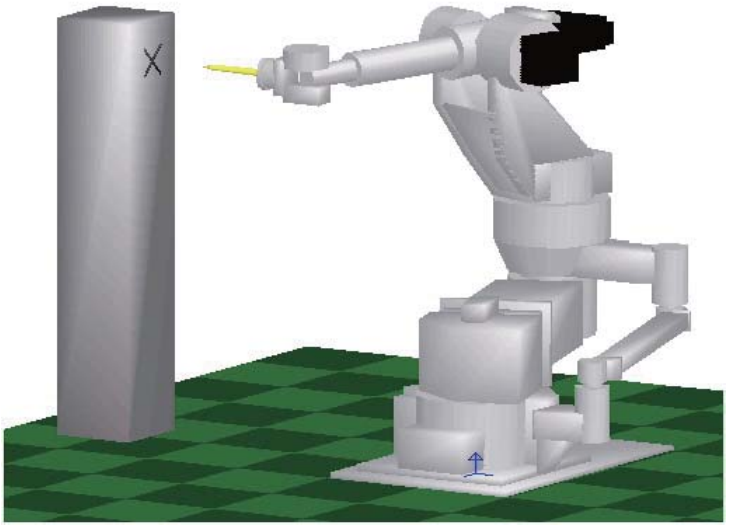
NOTE

Other manipulator models have different positions. Always consult the documentation for the correct manipulator model.

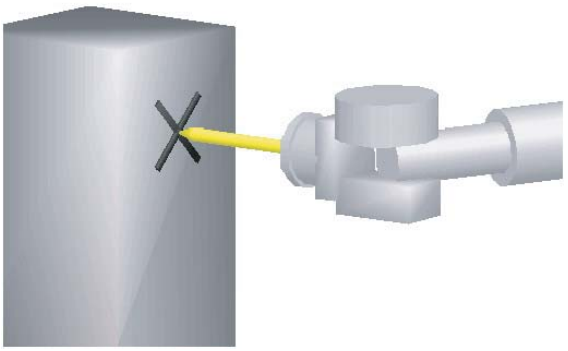
6.2 Position Deviation Check Using the Check Program

Use the check program to check if positions are deviated with the following procedure.

1. Call up the check program in which the check point is taught (the job for) and operate the manipulator at low speed.



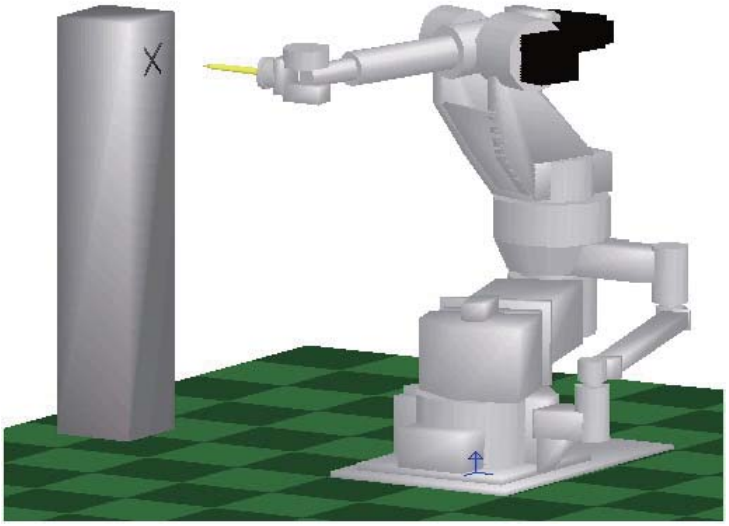
2. Check the tool tip position.
   - If it points the check point exactly as shown in the following figure, there is no deviation from the positions. Proceed to *chapter 6.4 "Setting the Second Home Position (Check Point)"* .
   - If not, there is a deviation. When the motor or encoder, etc. was replaced, move the corresponding axis only, when the stored memory was cleared or the manipulator was hit against a workpiece, move all axes, to the check point by joint motion. Then, proceed to *chapter 6.3.3 "Home Position Data Correction"* .



6.3 Checking of the Check Program

6.3.1 Motion of the Check Program

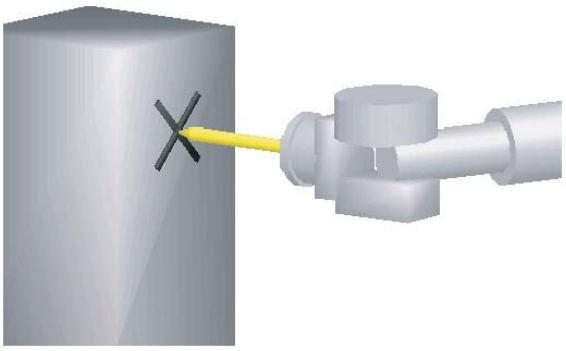
Call up the check program in which the check point is taught (the job for avoiding the position deviation) and operate the manipulator at low speed.



6.3.2 Checking of the Check Program

Check the deviation in to the check point. If the tool tip position is deviated, there is a deviation.

When the motor or encoder, etc. was replaced, move the corresponding axis only, when the stored memory was cleared or the manipulator was hit against a workpiece, move all axes, to the check point by joint motion.



6.3.3 Home Position Data Correction

When there is a deviation from the positions, correct the home position data with the following procedure.

1. Check the values of the following pulses.
   - If there is no deviation, the following two values coincide. Then, proceed to *chapter 6.4 "Setting the Second Home Position (Check Point)"* .
   - If there is a deviation, execute the following procedures to correct it.

   (1) Command position pulse of the check point which was taught in advance

   Displaying the Command Position Pulse

   I) Select {ROBOT} under the main menu.

   II) Select {COMMAND POSITION}.

   (2) Current position pulse where the manipulator (tool tip) was moved to the check point after performing the check program

   Displaying the Current Position Pulse

   I) Select {ROBOT} under the main menu.

   II) Select {CURRENT POSITION}.

2. Calculate the difference between the command position pulse and the current position pulse.

   The difference pulse = Command position pulse – Current position pulse

3. On the HOME POSITIONING window, add the difference pulse value to the absolute data of the axis whose motor or encoder, etc. was replaced.
4. Modify the home position data by following the procedures described in *chapter 6.1.2.3 "Changing the Absolute Data"* in chapter 6.1.2.
5. Confirm that the command position pulse and the current position pulse coincide.
   - The home position data have been corrected.
   - Proceed to *chapter 6.4 "Setting the Second Home Position (Check Point)"* .

6.4 Setting the Second Home Position (Check Point)

WARNING

- **Be aware of safety hazards when performing the position confirmation of the second home position (check point).**

Abnormality of the PG system may be a cause for alarm. The manipulator may operate in an unexpected manner, and there is a risk of damage to equipment or injury to personnel.

- **Before operating the manipulator, check that the SERVO ON lamp goes out when the emergency stop buttons on the front door of DX100 and the programming pendant are pressed.**

Injury or damage to machinery may result if the manipulator cannot be stopped in case of an emergency.

- **Observe the following precautions when performing teaching operations within the P-point maximum envelope of the manipulator:**
  - **Be sure to use a lockout device to the safeguarding when going inside.**
    Also, display the sign that the operation is being performed inside the safeguarding and make sure no one closes the safeguarding.
  - **View the manipulator from the front whenever possible.**
  - **Always follow the predetermined operating procedure.**
  - **Ensure that you have a safe place to retreat in case of emergency.**

Improper or unintended manipulator operation may result in injury.

- **Prior to performing the following operations, be sure that no one is in the P-point maximum envelope of the manipulator, and be sure that you are in a safe place when:**
  - **Turning ON the DX100 power.**
  - **Moving the manipulator with the programming pendant.**
  - **Running the system in the check mode.**
  - **Performing automatic operations.**

Injury may result from contact with the manipulator if persons enter the P-point maximum envelope of the manipulator.

- **Always press the emergency stop button immediately if there are problems.**

Emergency stop buttons are attached on the right of the front door of the DX100 and the programming pendant.

CAUTION

- **Perform the following inspection procedures prior to teaching the manipulator. If problems are found, correct them immediately, and be sure that all other necessary tasks have been performed.**
  - **Check for problems in manipulator movement.**
  - **Check for damage to the insulation and sheathing of external wires.**
  - **Always return the programming pendant to its hook on the DX100 cabinet after use.**

If the programming pendant is inadvertently left on the manipulator, a fixture, or on the floor, the manipulator or a tool could collide with it during manipulator movement, possibly causing injury or equipment damage.

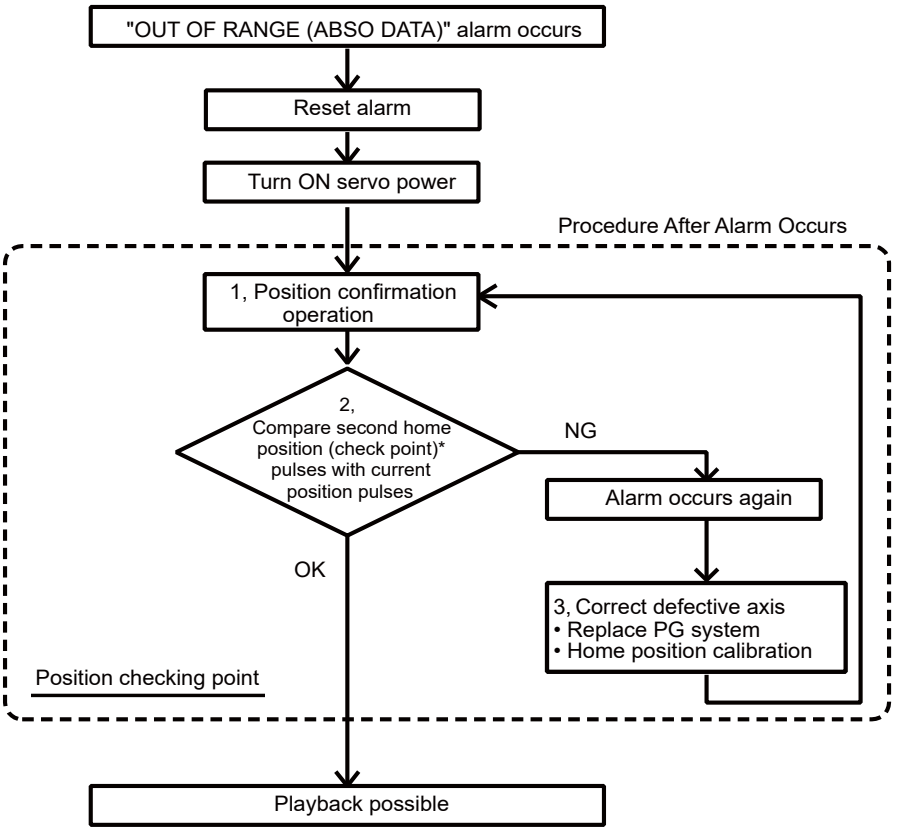
6.4.1 Purpose of Position Check Operation

If the absolute number of rotation detected at power supply ON does not match the data stored in the absolute encoder the last time the power supply was turned off, an alarm is issued when the controller power is turned ON.

There are two possible causes of this alarm:

- Error in the PG system
- The manipulator was moved after the power supply was turned OFF.

If there is an error with the PG system, the manipulator may stall when playback is started. If the absolute data allowable range error alarm has occurred, playback and test runs will not function and the position must be checked.



1, Position Check

After the "OUT OF RANGE (ABSO DATA)" alarm occurs, move to the second home position using the axis keys and perform the position confirmation. Playback, test runs, and FWD operation will not function unless "CONFIRM POSITION" is performed.

2, Pulse Difference Check

The pulse number at the second home position is compared with that at the current position. If the difference is within the allowable range, playback is enabled. If not, the alarm occurs again.

- The allowable range pulse is the number of pulses per rotation of the motor (PPR data).
- The initial value of the second home position is the home position (where all axes are at pulse 0). The second home position can be changed. For details, refer to *chapter 6.4.2 "Procedure for the Second Home Position Setting (Check Point)"* .

3, Alarm Occurrence

If the alarm occurs again, there may be an error in the PG system. Check the system. After adjusting the erroneous axis, calibrate the home position of the axis, then check the position again.

NOTE

- Home position calibration of all the axes at the same time enables playback operations without having to check the position.
- Sometimes in a system with a manipulator that has no brake, it is possible to enable playback without position checking after the alarm occurs. **However, as a rule, always perform "CONFIRM POSITION".** Under the above special conditions, the manipulator moves as follows:

After starting, the manipulator moves at low speed (1/10 of the maximum speed) to the step indicated by the cursor.

If it is stopped and restarted during this motion, the low speed setting is retained until the step at cursor is reached. Regardless of cycle setting, the manipulator stops after the cursor step is reached.

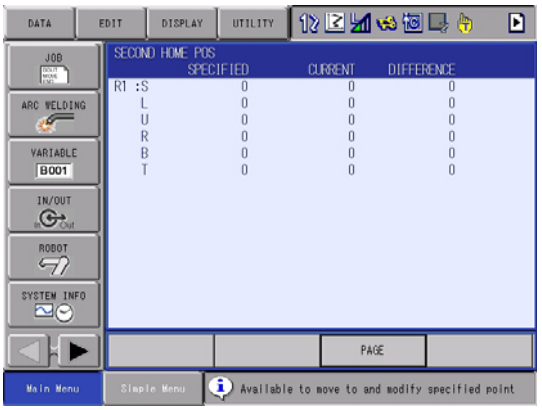
Starting the manipulator again then moves it at the programmed speed and cycle of the job.

6.4.2 Procedure for the Second Home Position Setting (Check Point)

Apart from the "home position" of the manipulator, the second home position can be set up as a check point for absolute data. Use the following steps to set the specified point.

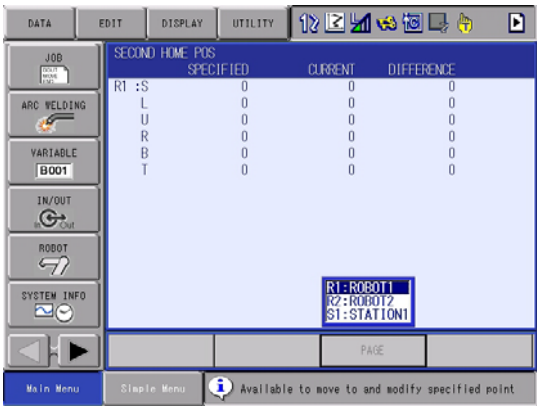
If two or more manipulators or stations are controlled by one controller, the second home position must be set for each manipulator or station.

1. Select {ROBOT} under the main menu.
2. Select {SECOND HOME POS}.
   – The SECOND HOME POS window appears.
   The message “Available to move to and modify specified point” is shown.



3. Press the page key ,

or select "PAGE" to display the selection window for the control group.
   – The group axes by which the second home position is set is selected when there are two or more group axes.



4. Press the axis keys.
   – Move the manipulator to the new second home position.

5. Press [MODIFY] and [ENTER].
   – The second home position is changed.

6.4.3 Procedure after the Alarm

WARNING

- **Be aware of safety hazards when performing the position confirmation of the specified point.**

Abnormality of the PG system may be cause for alarm. The manipulator may operate in an unexpected manner, and there is a risk of damage to equipment or injury to personnel.

If the "OUT OF RANGE (ABSO DATA)" alarm occurs, perform the followings

- Reset the alarm
- Turn Servo power ON

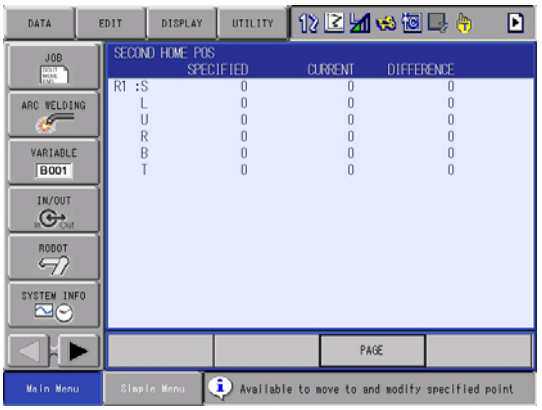
and confirm the second home position. After the confirmation, if the PG system is found to be the cause of the alarm, perform the necessary operation, such as replacing the PG, etc.

The robot current position data when turning main power supply OFF and ON can be confirmed in "POWER ON/OFF POS" window.

SUPPLE -MENT

Refer to*chapter 7.7 “Position Data When Power is Turned ON/OFF”* for details on the “POWER ON/OFF POS" window.

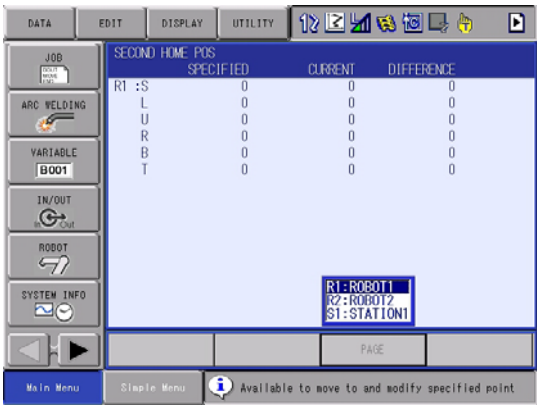
1. Select {ROBOT} under the main menu.
2. Select {SECOND HOME POS}.
   – The SECOND HOME POS window appears.



3. Press the page key .

or select "PAGE" to display the selection window for the control group.

– The group axes by which the second home position is set is selected when there are two or more group axes.



4. Press [FWD].

– TCP moves to the second home position. The robot moving speed is set as selected manual speed.

5. Select {DATA} under the menu.
6. Select {CONFIRM POSITION}.

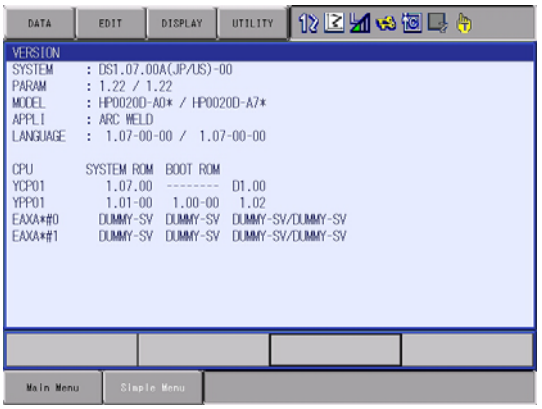
– The message “Home position checked” is shown.
Pulse data of the second home position and current pulse data are compared. If the compared error is in allowed range, playback operation can be done.
If the error is beyond the allowed range, the alarm occurs again.

7 System Diagnosis

7.1 System Version

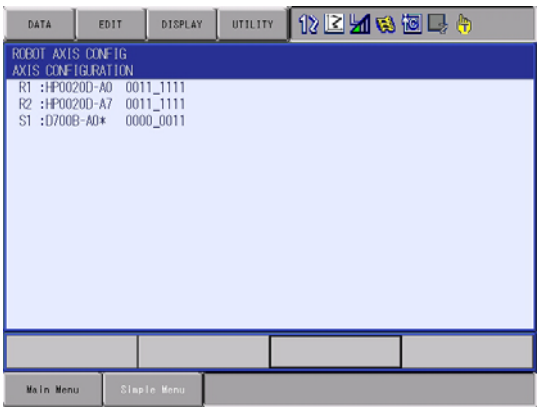
It is possible to check the system CPU version information as follows.

1. Select {SYSTEM INFO} under the main menu.
2. Select {VERSION}.
   – The VERSION window appears.



7.2 Manipulator Model

1. Select {ROBOT} under the main menu.
2. Select {MANIPULATOR TYPE}.
   – The ROBOT AXIS CONFIG window appears.



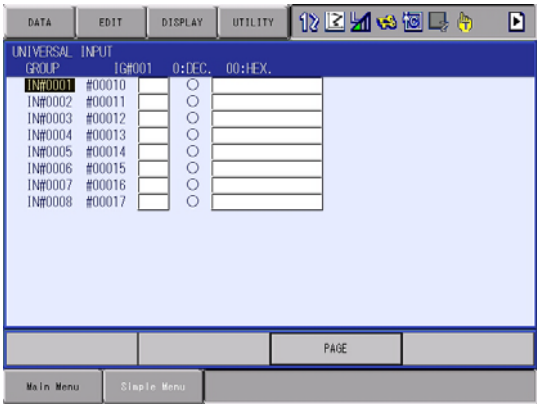
7.3 Input/Output Status

7.3.1 Universal Input

The status of input signal which is referred to by input instruction of a job can be confirmed.

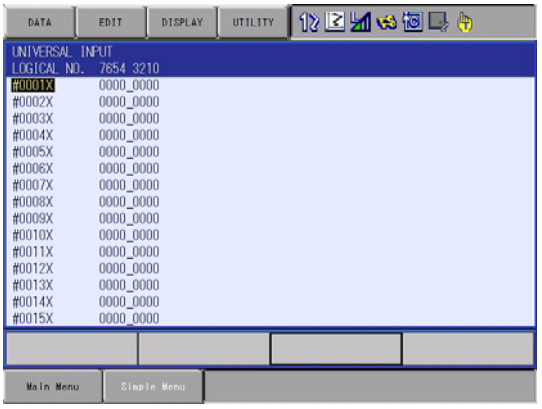
7.3.1.1 Universal Input Window

1. Select {IN/OUT} under the main menu.
2. Select {UNIVERSAL INPUT}.
   – The UNIVERSAL INPUT window appears.



7.3.1.2 Universal Input Simple Window

1. Select {IN/OUT} under the main menu.
2. Select {UNIVERSAL INPUT}.
   – The UNIVERSAL INPUT window appears.
3. Select {SIMPLE} from the pull-down menu of {DISPLAY}.
   – The UNIVERSAL INPUT simple window appears.

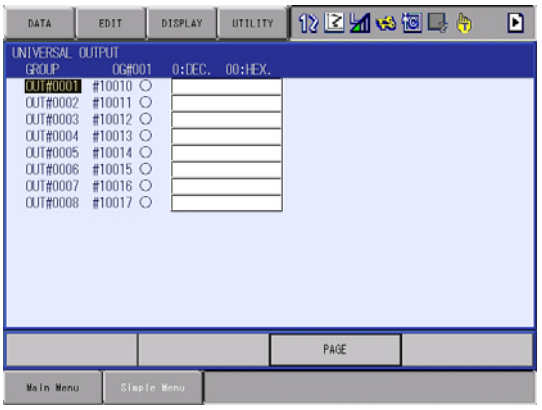


7.3.2 Universal Output

The status of the output signal set by the output instruction can be confirmed and modified.

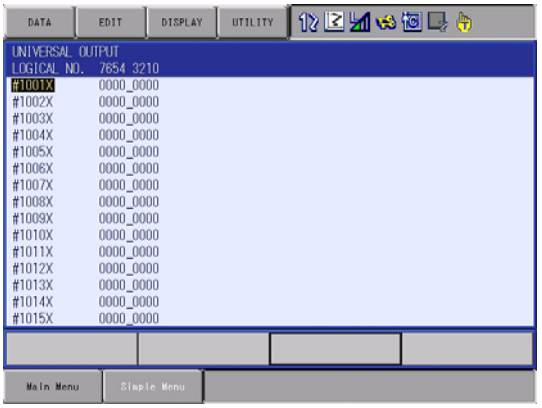
7.3.2.1 Universal Output Window

1. Select {IN/OUT} under the main menu.
2. Select {UNIVERSAL OUTPUT}.
   – The UNIVERSAL OUTPUT window appears.



7.3.2.2 Universal Output Simple Window

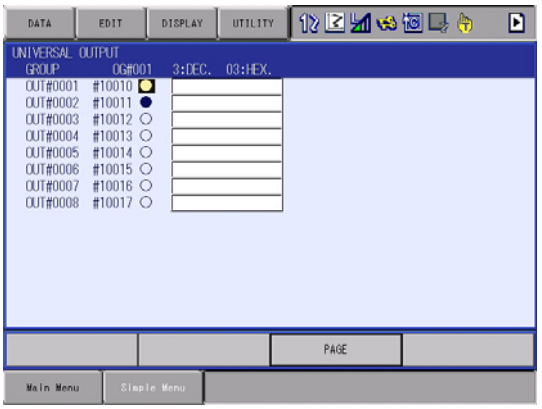
1. Select {IN/OUT} under the main menu.
2. Select {UNIVERSAL OUTPUT}.
   – The UNIVERSAL OUTPUT window appears.
3. Select {SIMPLE} from the pull-down menu of {DISPLAY}.
   – The UNIVERSAL OUTPUT simple window appears.



7.3.2.3 Modifying the Output Status

The status of universal output signal can be changed by the operation below.

1. Select the desired output signal number.
   – Select the status of the desired output signal, “○” or “●” in the UNIVERSAL OUTPUT window.
2. Press [INTER LOCK] + [SELECT].
   – The status is changed. (●: ON status, ○: OFF status)



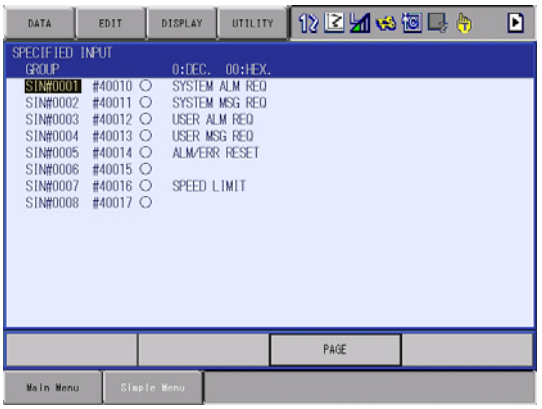
NOTE

The status of universal output signal can be changed only when the mode is set to the teach mode.

7.3.3 Specific Input

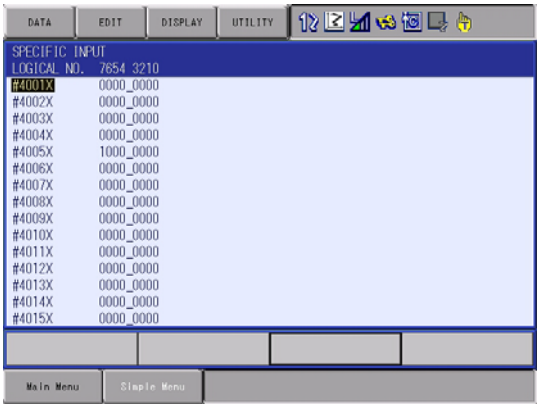
7.3.3.1 Specific Input Window

1. Select {IN/OUT} under the main menu.
2. Select {SPECIFIC INPUT}.
   – The SPECIFIED INPUT window appears.



7.3.3.2 Specific Input Simple Window

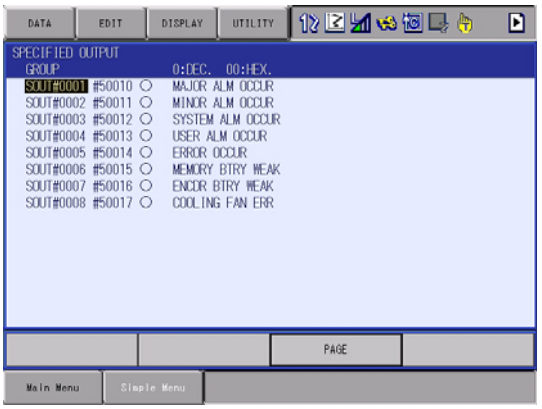
1. Select {IN/OUT} under the main menu.
2. Select {SPECIFIC INPUT}.
   – The SPECIFIED INPUT window appears.
3. Select {SIMPLE} from the pull-down menu of {DISPLAY}.
   – The SPECIFIED INPUT simple window appears.



7.3.4 Specific Output

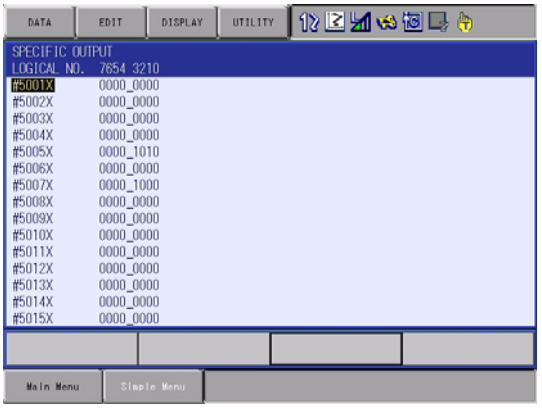
7.3.4.1 Specific Output Window

1. Select {IN/OUT} under the main menu.
2. Select {SPECIFIC OUTPUT}.
   – The SPECIFIED OUTPUT window appears.



7.3.4.2 Specific Output Simple Window

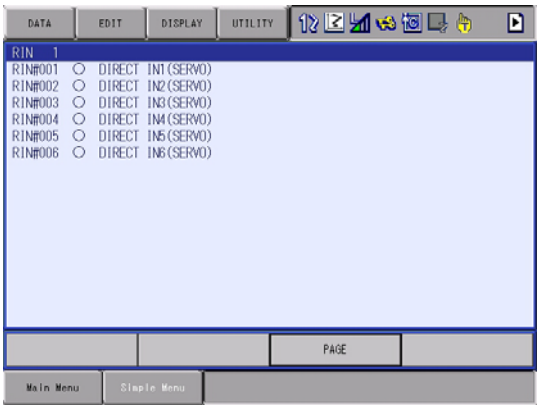
1. Select {IN/OUT} under the main menu.
2. Select {SPECIFIC OUTPUT}.
   – The SPECIFIED OUTPUT window appears.
3. Select {SIMPLE} from the pull-down menu of {DISPLAY}.
   – The SPECIFIED OUTPUT simple window appears.



7.3.5 RIN Input

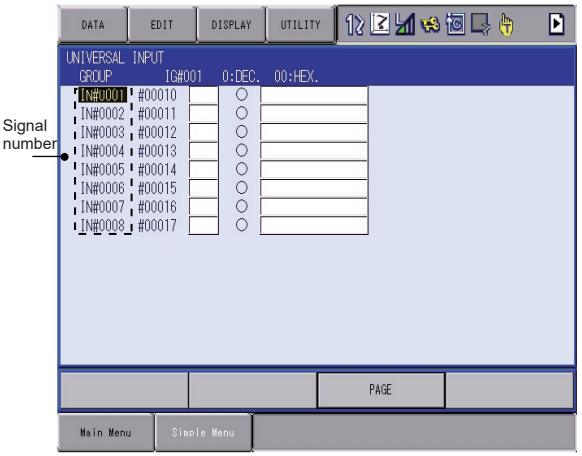
7.3.5.1 RIN Input Window

1. Select {IN/OUT} under the main menu.
2. Select {RIN}.
   – The RIN window appears.



7.3.6 Signal Number Search

A search can be made for a signal number of a universal input, universal output, specific input, and specific output.

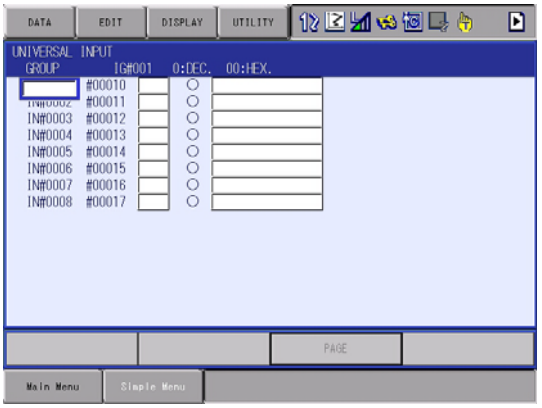


A search for the signal number can be made in the following two ways.

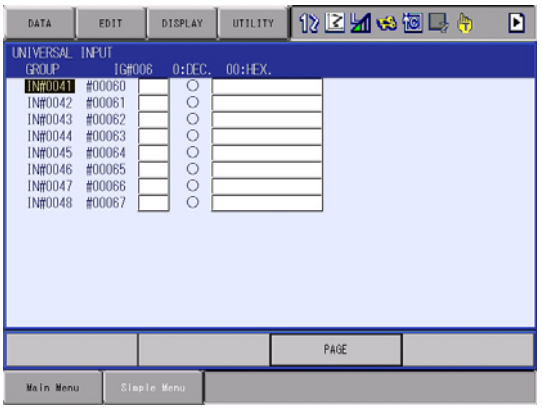
- Direct search on the UNIVERSAL/SPECIFIED INPUT/OUTPUT window
- Search from the menu

7.3.6.1 Direct Search on the Universal/Specified Input/Output Window

1. Move the cursor to a signal number in the UNIVERSAL/SPECIFIED INPUT/OUTPUT window, and press [SELECT].
   – Numeric values can now be entered.

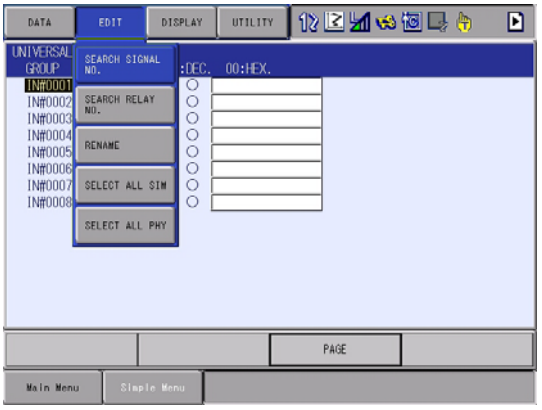


2. Enter the signal number to be searched.
   – Type the signal number in the number input line.
3. Press [ENTER] to start the search.
   – The page where the signal number exists appears.

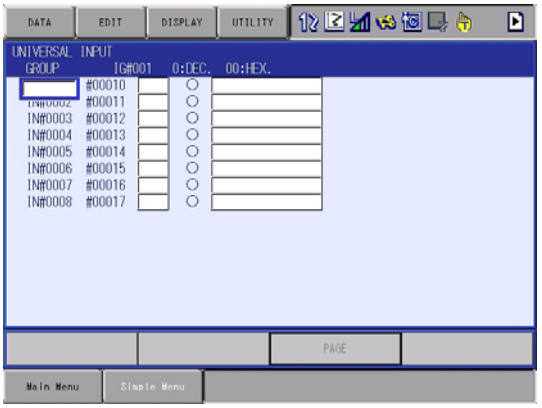


7.3.6.2 Search from the Menu

1. Select {EDIT} under the menu in the UNIVERSAL/SPECIFIED INPUT/OUTPUT window.
   – The pull-down menu appears.



2. Select {SEARCH SIGNAL NO.}.
   – Numeric values can now be entered.

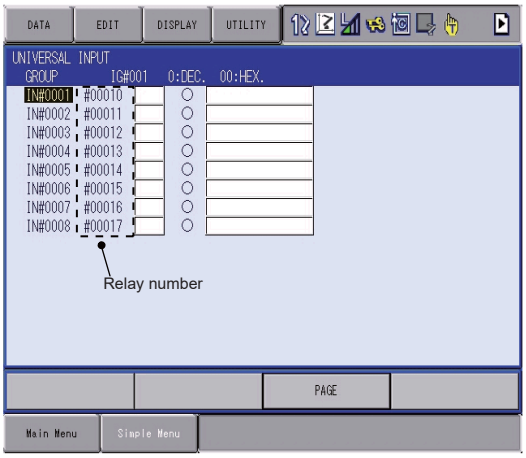


3. Enter the signal number to be searched.
   – Type the signal number in the number input line.

4. Press [ENTER] to start the search.
   – The page where the signal number exists appears.

7.3.7 Relay Number Search

A search can be made for a relay number of a universal input, universal output, specific input, and specific output.

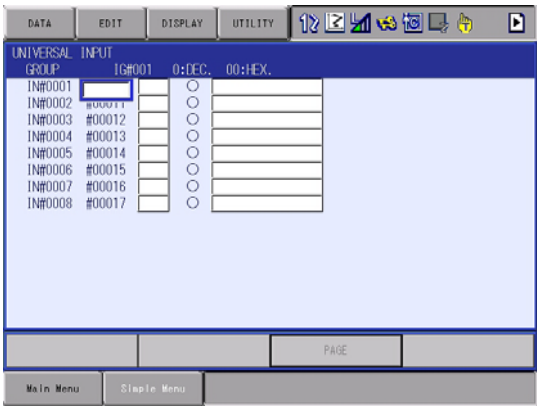


A search for the relay number can be made in the following two ways.

- Direct search on the UNIVERSAL/SPECIFIED INPUT/OUTPUT window
- Search from the menu

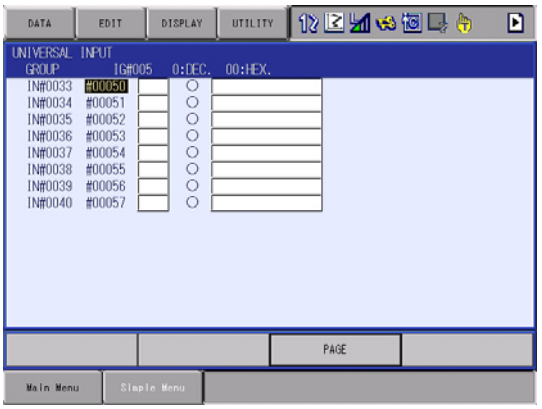
7.3.7.1 Direct Search on the Universal/Specified Input/Output Window

1. Move the cursor to a relay number in the UNIVERSAL/SPECIFIED INPUT/OUTPUT window, and press [SELECT].
   – Numeric values can now be entered.



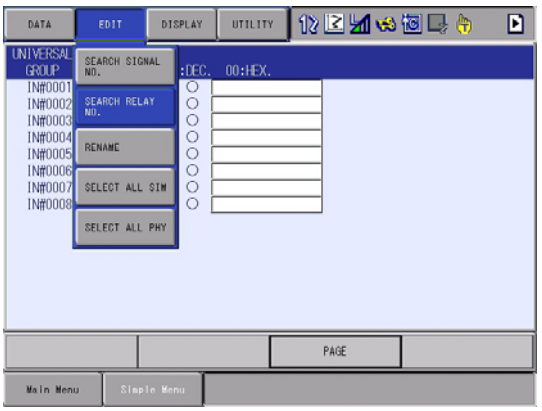
2. Enter the relay number to be searched.
   – Type the relay number in the number input line.

3. Press [ENTER] to start the search.
   – The page where the relay number exists appears.

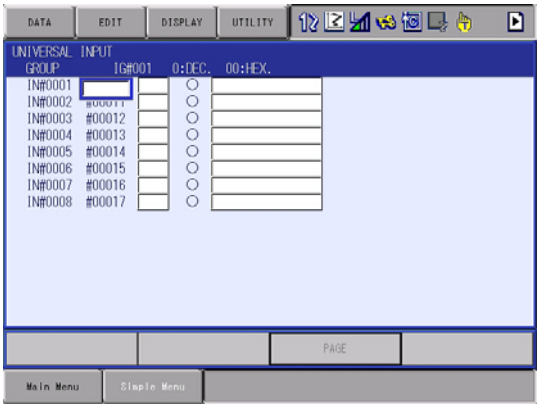


7.3.7.2 Search from the Menu

1. Select {EDIT} under the menu in the UNIVERSAL/SPECIFIED INPUT/OUTPUT window.
   – The pull-down menu appears.



2. Select {SEARCH RELAY SIGNAL NO.}.
   – Numeric values can now be entered.

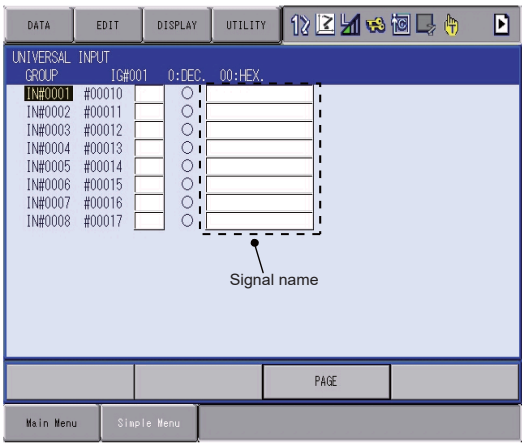


3. Enter the relay number to be searched.
   – Type the relay number in the number input line.

4. Press [ENTER] to start the search.
   – The page where the relay number exists appears.

7.3.8 Modification of the Signal Name

The name of the universal input or output signal can be modified.

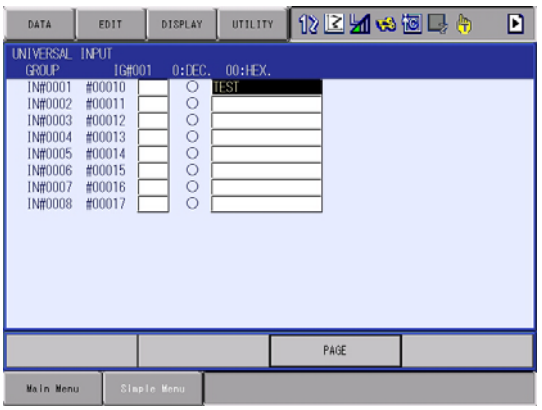


The name can be modified in the following two ways.

- Direct modification on the UNIVERSAL/SPECIFIED INPUT/OUTPUT window.
- Modification from the menu

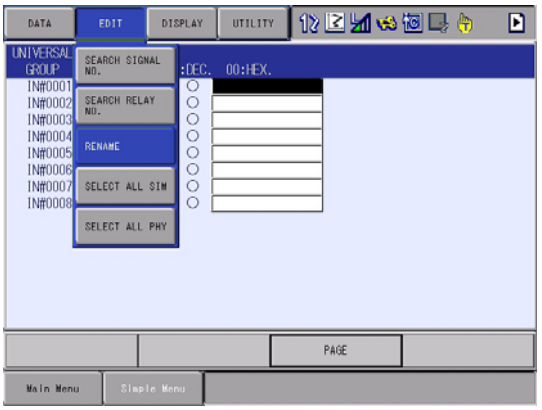
7.3.8.1 Direct Modification on the Universal/Specified Input/Output Window

1. Move the cursor to the signal name to be modified in the UNIVERSAL/SPECIFIED INPUT/OUTPUT window, and press [SELECT].
   – The window for character input appears.
2. Enter the signal name.
3. Press [ENTER].
   – New signal name is registered.

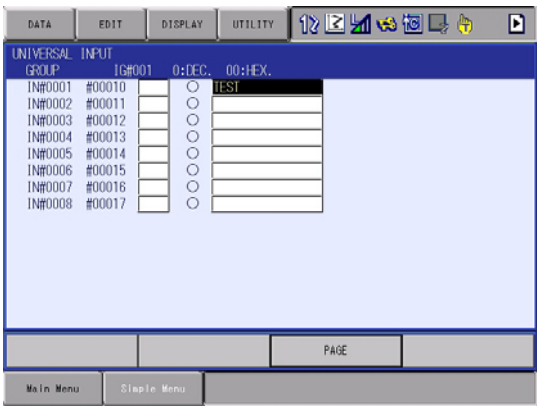


7.3.8.2 Modification from the Menu

1. Move the cursor to the signal name to be modified in the UNIVERSAL/SPECIFIED INPUT/OUTPUT window.
2. Select {EDIT} under the menu.
   – The pull-down menu appears.



3. Select {RENAME}.
   – The window for character input appears.
4. Enter the signal name.
5. Press [ENTER].
   – New signal name is registered.

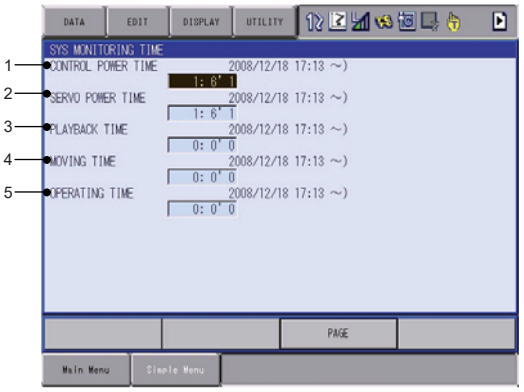


7.4 System Monitoring Time Display

7.4.1 System Monitoring Time Display Window

The status of system operation, e.g. power ON time, can be checked.

1. Select {SYSTEM INFO}.
2. Select {MONITORING TIME}.
   – The SYS MONITORING TIME window appears.



1, CONTROL POWER TIME

Displays the cumulative time that the main power supply has been ON.

2, SERVO POWER TIME

Displays the cumulative time that the servo power supply has been ON.

3, PLAYBACK TIME

Displays the cumulative time during which playback was executed.

4, MOVING TIME

Displays the cumulative time that the manipulator was in motion.

5, OPERATING TIME

Displays the cumulative time spent in operation. For example, if the manipulator is used for spot welding, it displays the amount of time spent in spot welding; if the manipulator is used for handling, it displays the time spent in handling.

7.4.2 Individual Window of the System Monitoring Time Display

If the page key is pressed, or "PAGE" is selected to display the selection window for the system monitoring time display, the servo power time, playback time, moving time, and each-application operating time by each control group are individually displayed.

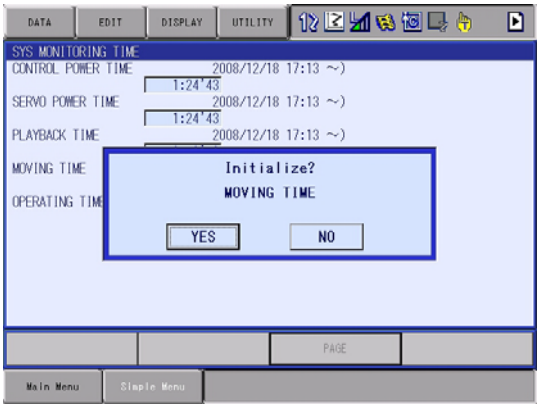
NOTE

The total time of each control group here is not always the same as the time in the SYS MONITORING TIME window because these windows show time as seen from the individual control group.

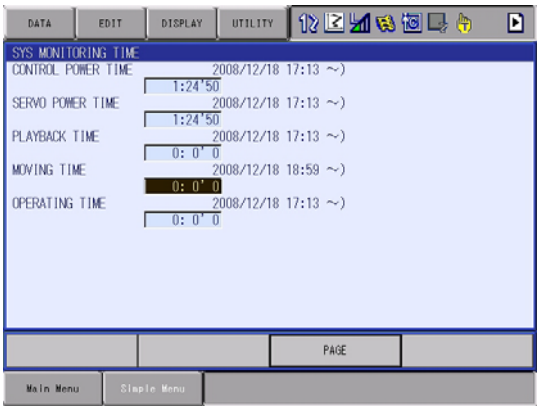
7.4.3 Clearing the System Monitoring Time Display

The moving time and operating time can be cleared and set back to 0 by following procedure. These operations can be performed in the SYS MONITORING TIME window, or in the individual windows.

1. Select the time to be cleared.
   – The confirmation dialog box appears.



2. Select “YES.”
   – The cumulative time value at the cursor line is reset to 0, and a new time measurement begins.

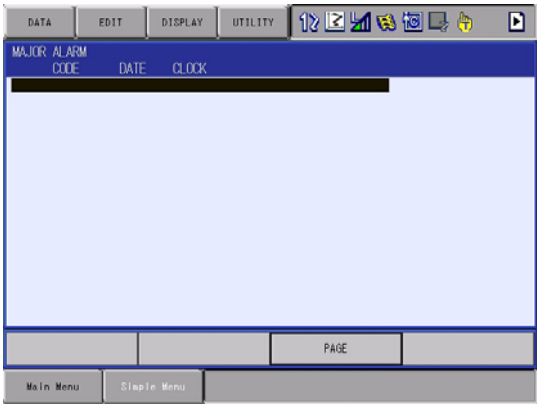


7.5 Alarm History

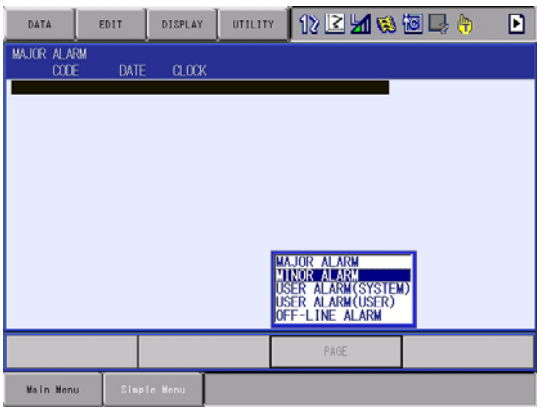
7.5.1 Alarm History Window

The alarm history can be confirmed in the alarm history window. There are five types of alarm history windows: the "MAJOR ALARM" window, the "MINOR ALARM" window, the "USER ALARM (SYSTEM)" window, the "USER ALARM (USER)" window, and the "OFF-LINE ALARM" window. Each window shows the alarm code and the date and time.

1. Select {SYSTEM INFO} under the main menu.
2. Select {ALARM HISTORY}.
   – The alarm history window appears.



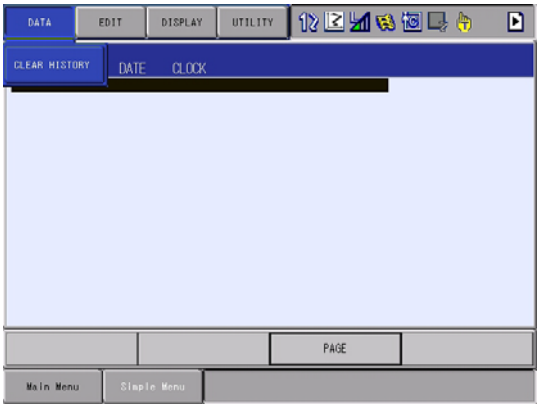
3. Press the page key to change the window, or select "PAGE" to display the selection window for the alarm windows.
   – Each time the page key is pressed, the window changes "MAJOR ALARM"→"MINOR ALARM"→"USER ALARM(SYSTEM)"→"USER ALARM(USER)"→"OFF-LINE ALARM."



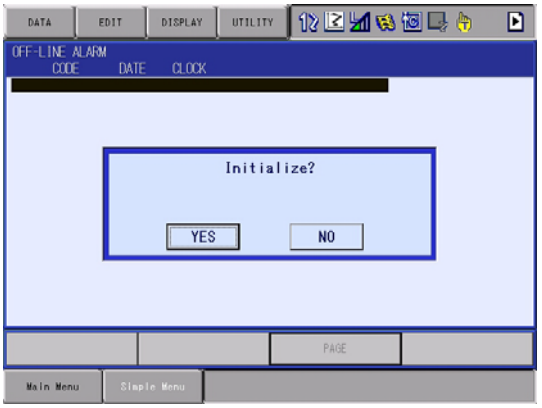
7.5.2 Clearing the Alarm History

The history of the minor alarms and the user alarms (system and user) can be cleared.

1. Display the alarm history window to be cleared.
2. Select {DATA} under the menu.
   – The pull-down menu "CLEAR HISTORY" appears.



3. Select {CLEAR HISTORY}.
   – The confirmation dialog box appears.



4. Select “YES.”
   – The alarm history displayed is reset.

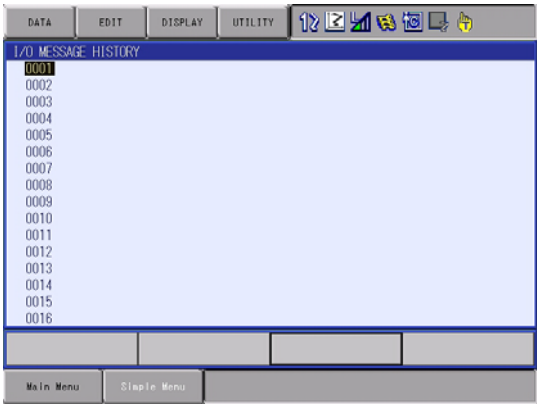
7.6 I/O Message History

7.6.1 I/O Message History Window

The I/O message history can be confirmed in the I/O MESSAGE HISTORY window.

The I/O MESSAGE HISTORY window shows the date and time, job name, line number, and step number of the I/O message that appeared on the window.

1. Select {SYSTEM INFO} under the main menu.
2. Select {I/O MSG HISTORY}
   – The I/O MESSAGE HISTORY window appears.



Press [SELECT], and numeric values can now be entered. Input the history number, and press [ENTER]. The search for the input history number begins, and the I/O message that appeared on the window is displayed.

7.6.1.1 Search

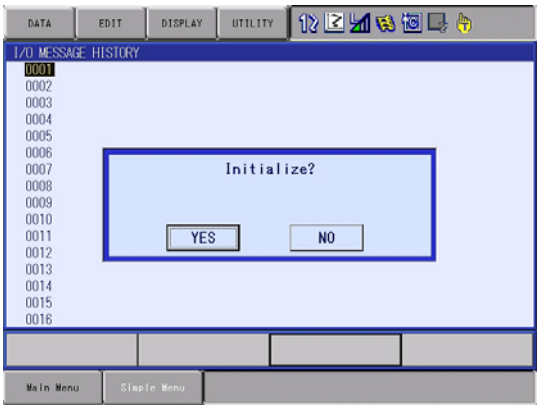
Use the following operation to search for the I/O message history.

1. Select {EDIT} under the menu.
2. Select {SEARCH}.
   – The character input line appears.
3. Enter the history No.
4. Press [ENTER].
   – The search for the input history number begins, and the I/O message is displayed.

7.6.2 Clearing the I/O Message History

Use the following operation to clear the I/O message history.

1. Select {DATA} under the menu.
2. Select {CLEAR HISTORY}.
   – The confirmation dialog box appears.



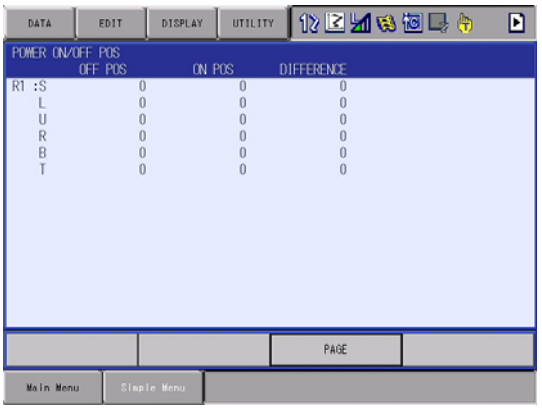
3. Select “YES.”
   – The displayed I/O message history is cleared.

7.7 Position Data When Power is Turned ON/OFF

7.7.1 Power ON/OFF Position Window

The Power ON/OFF position window shows the position of the manipulator when power was turned OFF the last time, the current position of the manipulator when power was later turned ON, and the amount of difference between the two positions. When alarm 4107, "OUT OF RANGE (ABSO DATA)" occurs, the error value of the faulty axes can be verified in this window.

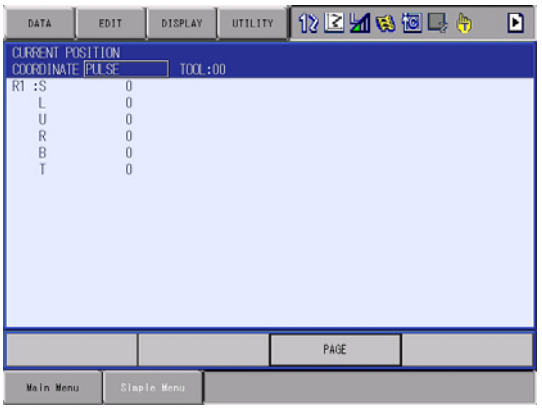
1. Select {ROBOT} under the main menu.
2. Select {POWER ON/OFF POS}.
   – The POWER ON/OFF POSITION window appears.



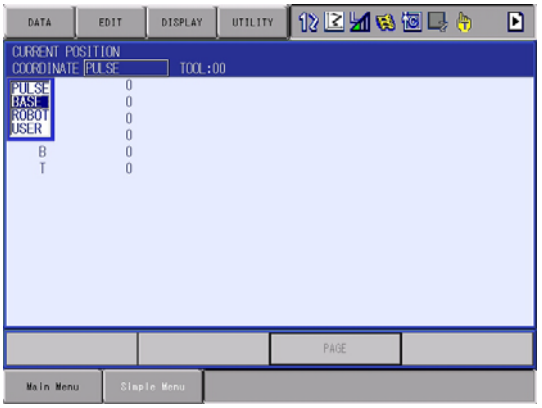
7.8 Current Position

7.8.1 Current Position Window

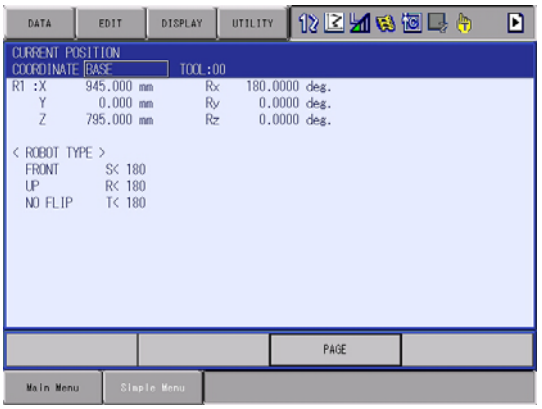
1. Select {ROBOT} under the main menu.
2. Select {CURRENT POSITION} under the sub menu.
   – The CURRENT POSITION window appears.



3. Select the types of coordinates to be displayed.
   – The pull-down menu appears.



4. Select the desired coordinate system.
   – The type of coordinates being displayed is changed.



7.9 Servo Monitoring

7.9.1 Servo Monitor Window

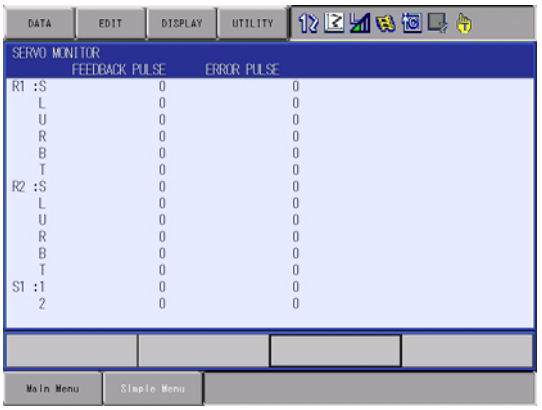
The servo monitor window shows the servo-related data of each axis.

Monitor Items	Description
FEEDBACK PULSE	Feedback position (actual position) of each axis “0” at the home position
ERROR PULSE	Difference between the command position and the feedback position of each axis
SPEED DEVIATION	Difference between the command speed and the feedback speed of each axis
SPEED INST	Speed reference of each axis
FEEDBACK SPEED	Feedback speed (actual speed) of each axis
TORQUE SPEC	Torque reference of each axis
MAX. TORQUE	Keeps the maximum value of the torque reference of each axis. “0” when the maximum torque is cleared or the control power supply is turned ON or OFF
ENCODER ROTATE SUM	Accumulated number of encoder rotation when the control power supply of each axis is turned ON
IN 1 TURN POSITION	Position after one rotation of the encoder when the control power supply of each axis is turned ON
MOTOR ABSOLUTE	Absolute value of the motor is calculated by adding the position in one rotation to the sum of the accumulated rotations when the control power supply of each axis is turned ON.

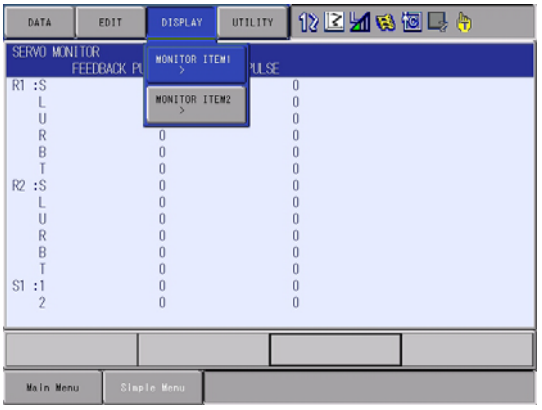
7.9.1.1 Changing the Monitor Items

1. Set the security mode to the management mode.
2. Select {ROBOT} under the main menu.

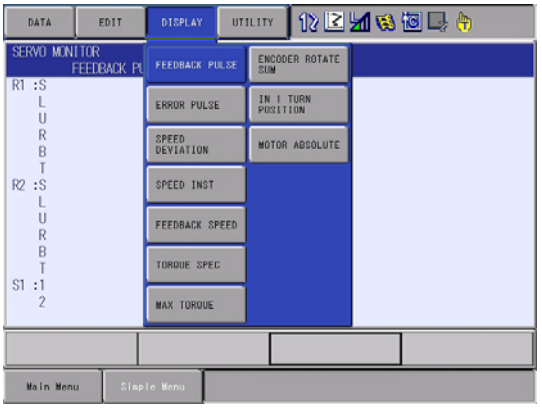
3. Select {SERVO MONITOR}.
   – The SERVO MONITOR window appears.



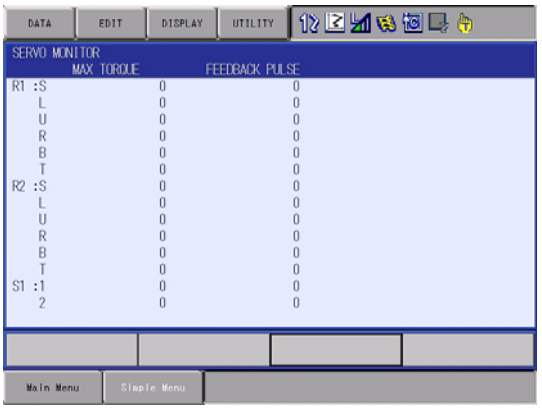
4. Select {DISPLAY} under the menu.
   – The pull-down menu appears.
   MONITOR ITEM 1 is the data on the left, and MONITOR ITEM 2 is the data on the right



5. Select MONITOR ITEM 1 or 2, and view the sub-menu choices by the cursor key.
   – The sub-menu choices appear.



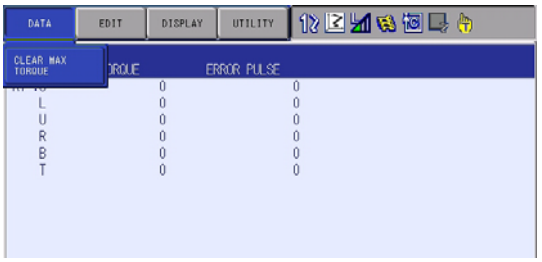
6. Select a menu.
   – The type of monitor-related information is changed.



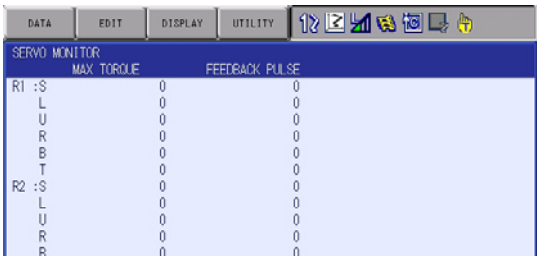
7.9.1.2 Clearing Maximum Torque Data

The data for the maximum torque can be cleared when the maximum torque-related information is being displayed.

1. Select {DATA} under the menu.
   – The clear max torque window appears



2. Select {MAX. TORQUE}.
   – The maximum torque data is cleared.



7.10 The State of the Robot Drop Tolerance Error

7.10.1 Check the Robot Drop Tolerance

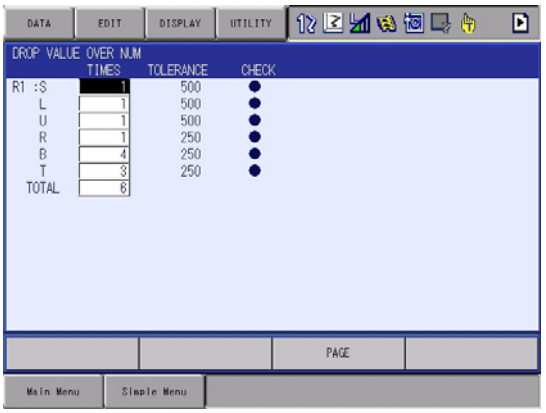
When a servo to the robot is turned off, the robot holds its position by the holding brake. However, in case of not holding its position, the DX100 checks if the drop value of the pulse is within the range when the servo is turned off from the turned on status.

Checking the drop value of the pulse is not performed when the robot is operating. The DX100 checks the value when turn on the servo again from the stopped state (it is a stopped state while waiting for the input during the timer in the playback).

7.10.2 Display of the Drop Value Number Window

Confirm the state of the times of the drop, tolerance and check on this window.

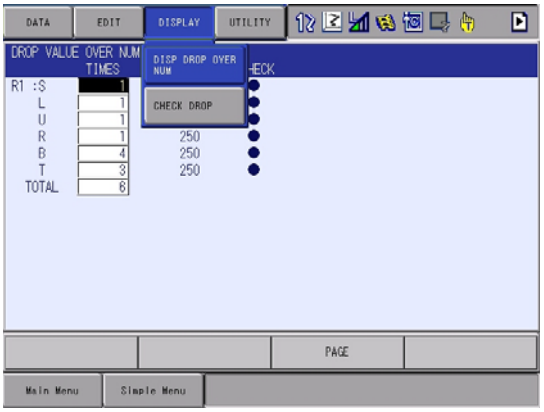
1. Select {ROBOT} in the main menu.
2. Select {DROP VALUE}.
   – The DROP VALUE OVER NUM window appears.



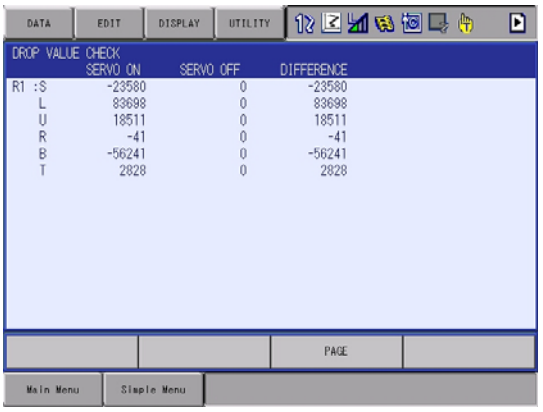
7.10.3 Display of the Drop Value Check Window

The position value of the manipulator where the servo was turned off (shown as SERVO ON on the screen), the position value of the manipulator where the servo is turned on (shown as SERVO OFF on the screen), and the difference value from these positions above are displayed in this window.

1. Select {DISPLAY} in the menu.
   - The pull-down menu appears.
   - Select {CHECK DROP} to display the DROP VALUE CHECK window.



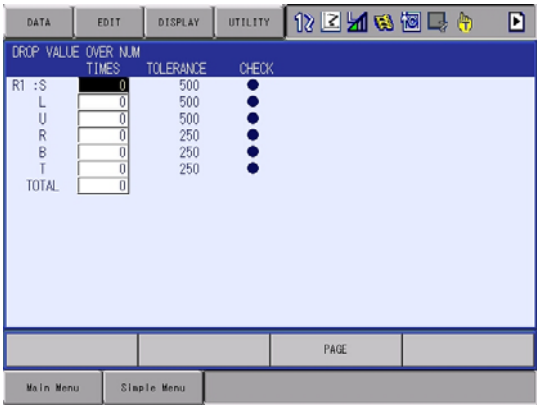
2. Select {DROP VALUE CHECK}.
   - The DROP VALUE CHECK window appears.



7.10.4 Clear the Times of the Drop Value Number

Clear the number by following operation.

1. Occurring times of the each axis
   - Move the cursor over the axis to be deleted, and press {SELECT}.
     The number of occurrence times is deleted.
2. Occurring times of the all axes
   - Move the cursor over the TOTAL, and press {SELECT}.
     The number of occurrence times are deleted.



8 Alarm

8.1 Outline of Alarm

When an alarm of level 0 to 3 (major alarm) occurs, the servo power supply is turned OFF.

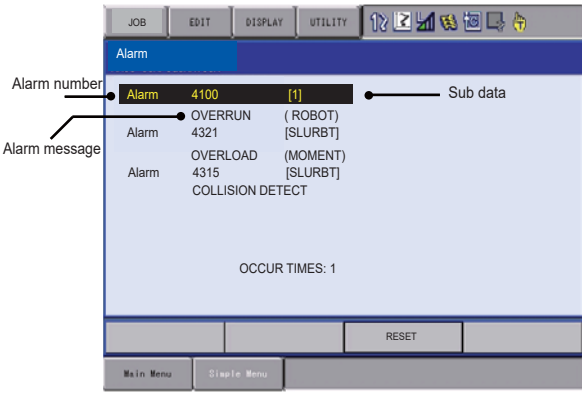
Table 8-1: Alarm Code Classification

Alarm Code	Alarm Level	Alarm Reset Method
0□□□	Level 0 (Major alarm) (Off line alarm: Initial diagnosis/ Hardware diagnosis alarm)	It is not possible to reset by "RESET" under the ALARM window or the system input signal (Alarm reset). Turn OFF the main power supply and correct the cause of the alarm. Then turn ON the main power supply again.
1□□□ to 3□□□	Level 1 to 3 (Major alarm)	It is not possible to reset by "RESET" under the ALARM window or the system input signal (Alarm reset). Turn OFF the main power supply and correct the cause of the alarm. Then turn ON the main power supply again.
4□□□ to 8□□□	Level 4 to 8 (Minor alarm)	After correcting the cause, it is possible to reset by "RESET" under the ALARM window or the system input signal (Alarm reset).
9□□□	Level 9 (Minor alarm) (I/O alarm)	After correcting the cause for which the system input signal for the system or user alarm request turns ON, it is possible to reset by "RESET" under the ALARM window or the system input signal (Alarm reset).

8.2 Alarm Display

8.2.1 Displaying and Releasing Alarm

If an alarm occurs during operation, the manipulator stops immediately and the ALARM window appears on the programming pendant indicating that the machine was stopped by an alarm.



If more than one alarm occurs simultaneously, all the alarms are displayed.
Scroll the viewing area with the cursor key to view the alarm that is not currently displayed on the viewing area.

The following operations are available in the alarm status: window change, mode change, alarm reset, and emergency stop. If the window is changed to another window during alarm occurrence, the ALARM window can be shown again by selecting {SYSTEM INFO} under the main menu and then selecting {ALARM}.

8.2.1.1 Releasing Alarms

Alarms are classified by minor and major alarms.

- Minor Alarms
  Select "RESET" on the ALARM window to release alarms.
  Or, turn ON the specific signal "ALARM RESET" when using an external input signal (specific input).

- Major Alarms
  If a severe alarm such as hardware failure occurs, servo power is automatically shut OFF and the manipulator stops. Turn OFF the main power supply, remove the cause of the alarm, and then turn ON the power supply again.

8.2.2 Special Alarm Display

(1) Sub Data

Sub data such as data for the axis where the alarm occurred, may also be displayed for some alarms.

- Decimal data
  Without signs: 0 to 65535
  With signs: -32768 to 32767

- Binary data
  The alarm occurrence data becomes “1.”
  With 8 bits: 0000_0001
  With 16 bits: 00000001_00000001

- Axis data
  The axis where the alarm occurred is highlighted.
  With robot axis: Robots 1 to 8 [S L U R B T]
  With base axis: Base 1 to 8 [1 2 3]
  With station axis: Stations 1 to 24 [1 2 3]

- XYZ coordinate data
  The coordinates where the alarm occurred are highlighted.
  [X Y Z]
  [X Y Z Tx Ty Tz]

- 123 data
  The data for which the alarm occurred is highlighted.
  [1 2 3]

- Control group data
  The control group where the alarm occurred is highlighted.
  [R1 R2 S1 S2 S3]

(2) Multiple SERVOPACK System

In a system using more than one SERVOPACK, the number of the SERVOPACK where the alarm occurred is also displayed. The S1 switch of the EAXA01 circuit board shows the SERVOPACK number.

SV#1: SERVOPACK 1 (EAXA01 circuit board S1 switch: 0)

SV#2: SERVOPACK 2 (EAXA01 circuit board S1 switch: 1)

SV#3: SERVOPACK 3 (EAXA01 circuit board S1 switch: 2)

SV#4: SERVOPACK 4 (EAXA01 circuit board S1 switch: 3)

(3) Independent Control Function (Optional)

In the independent control function (multi-task job), the tasks that were being done when the alarm occurred are also displayed.

TASK#0: Master-task job

TASK#1: Sub-task1 job (SUB1)

TASK#2: Sub-task2 job (SUB2)

TASK#3: Sub-task3 job (SUB3)

TASK#4: Sub-task4 job (SUB4)

TASK#5: Sub-task5 job (SUB5)

TASK#6: Sub-task6 job (SUB6)

TASK#7: Sub-task7 job (SUB7)

TASK#8: Sub-task8 job (SUB8)

TASK#9: Sub-task9 job (SUB9)

TASK#10: Sub-task10 job (SUB10)

TASK#11: Sub-task11 job (SUB11)

TASK#12: Sub-task12 job (SUB12)

TASK#13: Sub-task13 job (SUB13)

TASK#14: Sub-task14 job (SUB14)

TASK#15: Sub-task15 job (SUB15)

8.3 Display of Alarm Details

Alarm details displaying function indicates the alarm contents breakdown on the alarm window.

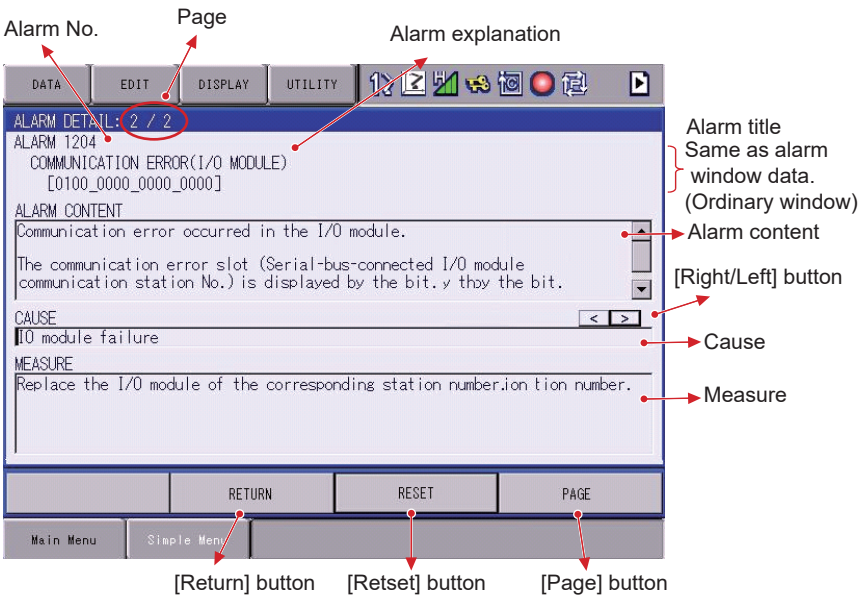
Press [Select] key after moving the cursor to the subject alarm on the alarm window to display its “content”, “cause” and “measure”.

Skip displaying the alarm window to directly display this breakdown window is possible by specifying the parameter when an alarm occurs.

8.3.1 Parameter

S2C406 Alarm Details Direct Display 0: Invalid / 1: Valid

8.3.2 Display of Alarm Detail Window



- **Page**
  Displays
  the page number of the alarm whose detail window is currently displayed / the total alarm number occurred coincidentally.

- **Alarm No.**
  Displays the alarm number with decimal 4 digit.

- **Sub data**
  Displays the sub code number defined to each alarm.

- **Alarm content**
  Displays the content of the alarm.

- **[Right/Left] button**
  This button appears when there can be several “cause”s and “measure”s to one alarm. Press this to right/left ward to alternate the “cause” and the “measure”.

- **Cause**
  Displays the cause of an alarm.

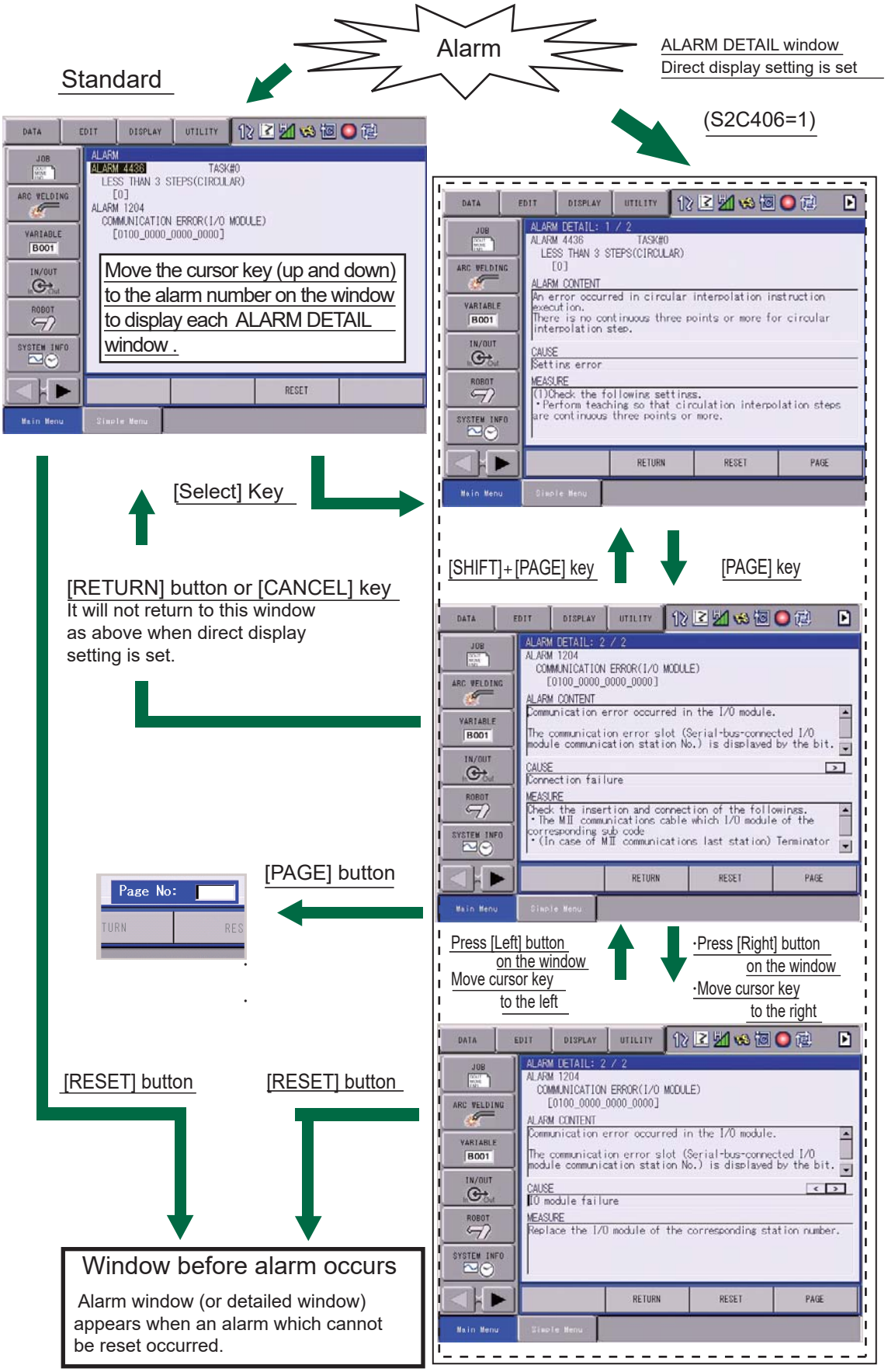
- **Measure**
  Displays the recovery method from the alarming state.

- **[Reset] button**
  Press this button to reset the alarm.

- **[Page] button**
  Press this button to display the page number inputting area.

  This area appears when several alarms occur at a time.

8.3.3 Transition of Alarm Detail Window



8.4 Alarm Message List

CAUTION

- Before handling the system control circuit board “JANCD-YIF∗∗–∗” for any remedies, consult YASKAWA representative. To handle the JANCD-YIF∗∗–∗, personnel must be appropriately skilled in maintenance mode operation.
- JANCD-YIF∗∗–∗ backs up very important file data for the user program with a battery. Careless operation may delete registered data.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0020	CPU COMMUNICATION ERROR	1	No response was sent from the YCP01 board when the control power turned ON.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connectors. · The PCI connector of YCP01 board · The PCI connector of the YIF01 board
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		20	No response was sent from the optional board #1 (YCP02) when the control power turned ON.	Setting error	Check the following settings. · Optional board setting in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of YCP02 board
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		21	No response was sent from the optional board #2 when the control power turned ON.	Setting error	Check the following settings. · The optional board setting in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the YCP02 board
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		50	No response was sent from the servo board #1 when the control power turned ON. At this time, the DX100 may judge it as signal input such as external hold wrong. However, it is caused by the communication error with servo board #1. Therefore, execute the following measures first of all.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (0) of the corresponding node number (SV#1)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · CN509 cable of EAXA board · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		51	No response was sent from the servo board #2 when the control power turned ON.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (1) of the corresponding node number (SV#2)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		52	No response was sent from the servo board #3 when the control power turned ON.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (2) of the corresponding node number (SV#3)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		53	No response was sent from the servo board #4 when the control power turned ON.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (3) of the corresponding node number (SV#4)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		54	No response was sent from the servo board #5 when the control power turned ON.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (4) of the corresponding node number (SV#5)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		55	No response was sent from the servo board #6 when the control power turned ON.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (5) of the corresponding node number (SV#6)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		56	No response was sent from the servo board #7.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (6) of the corresponding node number (SV#7)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		57	No response was sent from the servo board #8 when the control power turned ON.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (7) of the corresponding node number (SV#8)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		60	No response was sent from the YGW #1 when the controller power turned ON. At that time, the DX100 may misjudge that the signals such as external hold signal have been input. Therefore, execute the following countermeasures.	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#1): (0)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		61	No response was sent from the YGW #2 when the controller power turned ON.	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#2): (1)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		62	No response was sent from the YGW #3 when the controller power turned ON.	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#3): (2)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		63	No response was sent from the YGW #4 when the controller power turned ON.	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#4): (3)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		64	No response was sent from the YGW #5 when the controller power turned ON.	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#5): (4)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		65	No response was sent from the YGW #6 when the controller power turned ON.	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#6): (5)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		66	No response was sent from the YGW #7 when the controller power turned ON.	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#7): (6)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		67	No response was sent from the YGW #8 when the controller power turned ON.	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#8): (7)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0021	COMMUNICATION ERROR(SERVO)	50	The communications CPU for the servo board #1 detected an error when the control power turned ON.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (0) of the corresponding node number (SV#1)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		51	The communications CPU for the servo board #2 detected an error when the control power turned ON.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (1) of the corresponding node number (SV#2)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		52	The communications CPU for the servo board #3 detected an error when the control power turned ON.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (2) of the corresponding node number (SV#3)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		53	The communications CPU for the servo board #4 detected an error when the control power turned ON.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (3) of the corresponding node number (SV#4)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		54	The communications CPU for the servo board #5 detected an error when the control power turned ON.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (4) of the corresponding node number (SV#5)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		55	The communications CPU for the servo board #6 detected an error when the control power turned ON.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (5) of the corresponding node number (SV#6)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		56	The communications CPU for the servo board #7 detected an error when the control power turned ON.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (6) of the corresponding node number (SV#7)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		57	The communications CPU for the servo board #8 detected an error when the control power turned ON.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (7) of the corresponding node number (SV#8)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0022	COMMUNICATION ERROR (M-Link)		The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0023	COMMUNICATION ERROR	60	The communication CPU for the YGW #1 detected an error when the control power turned ON.	Setting error	Check the following settings. • Control group settings in maintenance mode • The YGW01 board rotary switch setting (0) of the corresponding node number (YGW#1)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		61	The communication CPU for the YGW #2 detected an error when the control power turned ON.	Setting error	Check the following settings. • Control group settings in maintenance mode • The YGW01 board rotary switch setting (1) of the corresponding node number (YGW#2)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		62	The communication CPU for the YGW #3 detected an error when the control power turned ON.	Setting error	Check the following settings. • Control group settings in maintenance mode • The YGW01 board rotary switch setting (2) of the corresponding node number (YGW#3)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		63	The communication CPU for the YGW #4 detected an error when the control power turned ON.	Setting error	Check the following settings. • Control group settings in maintenance mode • The YGW01 board rotary switch setting (3) of the corresponding node number (YGW#4)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		64	The communication CPU for the YGW #5 detected an error when the control power turned ON.	Setting error	Check the following settings. • Control group settings in maintenance mode • The YGW01 board rotary switch setting (4) of the corresponding node number (YGW#5)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		65	The communication CPU for the YGW #6 detected an error when the control power turned ON.	Setting error	Check the following settings. • Control group settings in maintenance mode • The YGW01 board rotary switch setting (5) of the corresponding node number (YGW#6)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		66	The communication CPU for the YGW #7 detected an error when the control power turned ON.	Setting error	Check the following settings. • Control group settings in maintenance mode • The YGW01 board rotary switch setting (6) of the corresponding node number (YGW#7)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		67	The communication CPU for the YGW #8 detected an error when the control power turned ON.	Setting error	Check the following settings. • Control group settings in maintenance mode • The YGW01 board rotary switch setting (7) of the corresponding node number (YGW#8)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0030	ROM ERROR	1	The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	The system program of optional board #1 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
		20	The system program of optional board #2 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
		50	The system program of servo board #1 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		51	The system program of servo board #2 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		52	The system program of servo board #3 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		53	The system program of servo board #4 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		54	The system program of servo board #5 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		55	The system program of servo board #6 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		56	The system program of servo board #7 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		57	The system program of servo board #8 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		60	The system program of YGW #1 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
		61	The system program of YGW #2 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
		62	The system program of YGW #3 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
		63	The system program of YGW #4 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
		64	The system program of YGW #5 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		65	The system program of YGW #6 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
		66	The system program of YGW #7 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
		67	The system program of YGW #8 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
0031	EXPLOSION-PROOF PP BOOT ROM ERR.		The explosion-proof PP boot ROM is not applicable to DX100.	Software operation error occurred	Contact your Yaskawa representative to replace the explosion-proof programming pendant with the one in which the applicable boot ROM (ver2.00) is installed.
0060	COMMUNICATION ERROR (I/O MODULE)	0	An operation error occurred on the YIF01 circuit board.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		1	An error was detected in communications with the I/O device which rotary switch to specify node number is set to “1” when the control power turned ON. This alarm may be caused by the problem of other I/O module board which serial bus node number is set to “2” or more.	Setting error	Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · Serial communication cable and terminator which communicate with I/O module (MII communications). · 24V power cable of each I/O module.
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board. · The option I/O board communicates via serial bus (MII communication). i.e. YEW01, YEW02, XOI01, XFB01B-2, YFL01 and so on. · The standard I/O unit communicates via serial bus(YIU01).
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Board failure (other board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. · External Power Supply(for +24V) · CPS Unit(CPS520F) · YPU01 · YSU01
		2	An error was detected in communications with the I/O device which rotary switch to specify node number is set to “2” when the control power turned ON. This alarm may be caused by the problem of other I/O module board which serial bus node number is set to “3” or more.	Setting error	Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · Serial communication cable and terminator which communicate with I/O module (MII communications). · 24V power cable of each I/O module.
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board. · The option I/O board communicates via serial bus (MII communication). i.e. YEW01, YEW02, XOI01, XFB01B-2, YFL01 and so on. · The standard I/O unit communicates via serial bus(YIU01).
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Board failure (other board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. · External Power Supply (for +24V) · CPS Unit(CPS520F) · YPU01 · YSU01
		3	An error was detected in communications with the I/O device which rotary switch to specify node number is set to “3” when the control power turned ON. This alarm may be caused by the problem of other I/O module board which serial bus node number is set to “4” or more.	Setting error	Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · Serial communication cable and terminator which communicate with I/O module (MII communications). · 24V power cable of each I/O module.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board. · The option I/O board communicates via serial bus (MII communication). i.e. YEW01, YEW02, XOI01, XFB01B-2, YFL01 and so on. · The standard I/O unit communicates via serial bus(YIU01).
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Board failure (other board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. · External Power Supply (for +24V) · CPS Unit(CPS520F) · YPU01 · YSU01
		4	An error was detected in communications with the I/O device which rotary switch to specify node number is set to “4” when the control power turned ON. This alarm may be caused by the problem of other I/O module board which serial bus node number is set to “5” or more.	Setting error	Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · Serial communication cable and terminator which communicate with I/O module (MII communications). · 24V power cable of each I/O module.
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board. · The option I/O board communicates via serial bus (MII communication). i.e. YEW01, YEW02, XOI01, XFB01B-2, YFL01 and so on. · The standard I/O unit communicates via serial bus(YIU01).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Board failure (other board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. · External Power Supply (for +24V) · CPS Unit(CPS520F) · YPU01 · YSU01
		5	An error was detected in communications with the I/O device which rotary switch to specify node number is set to “5” when the control power turned ON. This alarm may be caused by the problem of other I/O module board which serial bus node number is set to “6” or more.	Setting error	Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · Serial communication cable and terminator which communicate with I/O module (MII communications). · 24V power cable of each I/O module.
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board. · The option I/O board communicates via serial bus (MII communication). i.e. YEW01, YEW02, XOI01, XFB01B-2, YFL01 and so on. · The standard I/O unit communicates via serial bus(YIU01).
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Board failure (other board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. · External Power Supply (for +24V) · CPS Unit(CPS520F) · YPU01 · YSU01
		6	An error was detected in communications with the I/O device which rotary switch to specify node number is set to “6” when the control power turned ON. This alarm may be caused by the problem of other I/O module board which serial bus node number is set to “7” or more.	Setting error	Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · Serial communication cable and terminator which communicate with I/O module (MII communications). · 24V power cable of each I/O module.
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board. · The option I/O board communicates via serial bus (MII communication). i.e. YEW01, YEW02, XOI01, XFB01B-2, YFL01 and so on. · The standard I/O unit communicates via serial bus(YIU01).
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Board failure (other board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. · External Power Supply (for +24V) · CPS Unit(CPS520F) · YPU01 · YSU01

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		7	An error was detected in communications with the I/O device which rotary switch to specify node number is set to “7” when the control power turned ON. This alarm may be caused by the problem of other I/O module board which serial bus node number is set to “8” or more.	Setting error	Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · Serial communication cable and terminator which communicate with I/O module (MII communications). · 24V power cable of each I/O module.
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board. · The option I/O board communicates via serial bus (MII communication). i.e. YEW01, YEW02, XOI01, XFB01B-2, YFL01 and so on. · The standard I/O unit communicates via serial bus(YIU01).
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Board failure (other board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. · External Power Supply (for +24V) · CPS Unit(CPS520F) · YPU01 · YSU01
		8	An error was detected in communications with the I/O device which rotary switch to specify node number is set to “8” when the control power turned ON. This alarm may be caused by the problem of other I/O module board which serial bus node number is set to “9” or more.	Setting error	Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · Serial communication cable and terminator which communicate with I/O module (MII communications). · 24V power cable of each I/O module.
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board. · The option I/O board communicates via serial bus (MII communication). i.e. YEW01, YEW02, XOI01, XFB01B-2, YFL01 and so on. · The standard I/O unit communicates via serial bus(YIU01).
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Board failure (other board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. · External Power Supply (for +24V) · CPS Unit(CPS520F) · YPU01 · YSU01
		9	An error was detected in communications with the I/O device which rotary switch to specify node number is set to “9” when the control power turned ON. This alarm may be caused by the problem of other I/O module board which serial bus node number is set to “10” or more.	Setting error	Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · Serial communication cable and terminator which communicate with I/O module (MII communications). · 24V power cable of each I/O module.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board. · The option I/O board communicates via serial bus (MII communication). i.e. YEW01, YEW02, XOI01, XFB01B-2, YFL01 and so on. · The standard I/O unit communicates via serial bus(YIU01).
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Board failure (other board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. · External Power Supply (for +24V) · CPS Unit(CPS520F) · YPU01 · YSU01
		10	An error was detected in communications with the I/O device which rotary switch to specify node number is set to “10” when the control power turned ON. This alarm may be caused by the problem of other I/O module board which serial bus node number is set to “11” or more.	Setting error	Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · Serial communication cable and terminator which communicate with I/O module (MII communications). · 24V power cable of each I/O module.
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board. · The option I/O board communicates via serial bus (MII communication). i.e. YEW01, YEW02, XOI01, XFB01B-2, YFL01 and so on. · The standard I/O unit communicates via serial bus(YIU01).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Board failure (other board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. · External Power Supply (for +24V) · CPS Unit(CPS520F) · YPU01 · YSU01
		11	An error was detected in communications with the I/O device which rotary switch to specify node number is set to “11” when the control power turned ON. This alarm may be caused by the problem of other I/O module board which serial bus node number is set to “12” or more.	Setting error	Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · Serial communication cable and terminator which communicate with I/O module (MII communications). · 24V power cable of each I/O module.
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board. · The option I/O board communicates via serial bus (MII communication). i.e. YEW01, YEW02, XOI01, XFB01B-2, YFL01 and so on. · The standard I/O unit communicates via serial bus(YIU01).
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Board failure(other board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. · External Power Supply(for +24V) · CPS Unit(CPS520F) · YPU01 · YSU01
		12	An error was detected in communications with the I/O device which rotary switch to specify node number is set to “12” when the control power turned ON. This alarm may be caused by the problem of other I/O module board which serial bus node number is set to “13” or more.	Setting error	Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · Serial communication cable and terminator which communicate with I/O module (MII communications). · 24V power cable of each I/O module.
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board. · The option I/O board communicates via serial bus (MII communication). i.e. YEW01, YEW02, XOI01, XFB01B-2, YFL01 and so on. · The standard I/O unit communicates via serial bus(YIU01).
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Board failure (other board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. · External Power Supply (for +24V) · CPS Unit(CPS520F) · YPU01 · YSU01

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		13	An error was detected in communications with the I/O device which rotary switch to specify node number is set to “13” when the control power turned ON. This alarm may be caused by the problem of YIU.	Setting error	Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · Serial communication cable and terminator which communicate with I/O module (MII communications). · 24V power cable of each I/O module.
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board. · The option I/O board communicates via serial bus (MII communication). i.e. YEW01, YEW02, XOI01, XFB01B-2, YFL01 and so on. · The standard I/O unit communicates via serial bus(YIU01).
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Board failure (other board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. · External Power Supply (for +24V) · CPS Unit(CPS520F) · YPU01 · YSU01
		14	An error was detected in communications with the YIU unit when the control power was turned ON. At this time, the DX100 may judge it as signal input such as external hold wrong. However, it is caused by the communication error with YIU.Therefore, execute the following measures first of all.	Setting error	Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · Serial communication cable and terminator which communicate with I/O module (MII communications). · 24V power cable of each I/O module.
				YIU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following unit. · YIU unit
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Board failure (other board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. · External Power Supply (for +24V) · CPS Unit(CPS520F) · YPU01 · YSU01
		15	An error was detected in communications with the I/O device which rotary switch to specify node number is set to “15” when the control power turned ON.	Setting error	Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · Serial communication cable and terminator which communicate with I/O module (MII communications). · 24V power cable of each I/O module.
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board. · The option I/O board communicates via serial bus (MII communication). i.e. YEW01, YEW02, XOI01, XFB01B-2, YFL01 and so on. · The standard I/O unit communicates via serial bus(YIU01).
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		16	An error was detected in communications with 1st I/O module board connected with PCI connector when the control power turned ON.	Setting error	Check the following settings. · PCI slot number in which each PCI board is mounted · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the replace the I/O module board. Save the CMOS.BIN before replace the board to be safe. · The corresponding I/O module (PCI board)
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				EIP board (board failure)	In the case of PCU-ETHIO (EtherNet/IP) board, please exchange with the board which firmware version is correct.
		17	An error was detected in communications with 2nd I/O module board connected with PCI when the control power turned ON.	Setting error	Check the following settings. · PCI slot number in which each PCI board is mounted · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the replace the I/O module board. Save the CMOS.BIN before replace the board to be safe. · The corresponding I/O module (PCI board)
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				EIP board (board failure)	In the case of PCU-ETHIO (EtherNet/IP) board, please exchange with the board which firmware version is correct.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		18	An error was detected in communications with 3rd I/O module board connected with PCI when the control power turned ON.	Setting error	Check the following settings. · PCI slot number in which each PCI board is mounted · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the I/O module board. Save the CMOS.BIN before replace the board to be safe. · The corresponding I/O module (PCI board)
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				EIP board (board failure)	In the case of PCU-ETHIO (EtherNet/IP) board, please exchange with the board which firmware version is correct.
		19	An error was detected in communications with 4th I/O module board connected with PCI when the control power turned ON.	Setting error	Check the following settings. · PCI slot number in which each PCI board is mounted · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the I/O module board. Save the CMOS.BIN before replace the board to be safe. · The corresponding I/O module (PCI board)
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				EIP board (board failure)	In the case of PCU-ETHIO (EtherNet/IP) board, please exchange with the board which firmware version is correct.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0100	COMMUNICATION ERROR (EAXA#1)	1	The error was detected during the check of the serial communication watchdog data. Counter value received from EAXA board is invalid.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (0) of the corresponding node number (SV#1)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		2	The error was detected during the check of the number of the serial communications. Counter value received from EAXA board is off by one cycle.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (0) of the corresponding node number (SV#1)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0101	COMMUNICATION ERROR (EAXA#2)	1	The error was detected during the check of the serial communication watchdog data. Counter value received from EAXA board is invalid.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (1) of the corresponding node number (SV#2)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		2	The error was detected during the check of the number of the serial communications. Counter value received from EAXA board is off by one cycle.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (1) of the corresponding node number (SV#2)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0102	COMMUNICATION ERROR (EAXA#3)	1	The error was detected during the check of the serial communication watchdog data. Counter value received from EAXA board is invalid.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (2) of the corresponding node number (SV#3)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		2	The error was detected during the check of the number of the serial communications. Counter value received from EAXA board is off by one cycle.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (2) of the corresponding node number (SV#3)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0103	COMMUNICATION ERROR (EAXA#4)	1	The error was detected during the check of the serial communication watchdog data. Counter value received from EAXA board is invalid.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (3) of the corresponding node number (SV#4)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	The error was detected during the check of the number of the serial communications. Counter value received from EAXA board is off by one cycle.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (3) of the corresponding node number (SV#4)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0104	COMMUNICATION ERROR (EAXA#5)	1	The error was detected during the check of the serial communication watchdog data. Counter value received from EAXA board is invalid.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (4) of the corresponding node number (SV#5)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		2	The error was detected during the check of the number of the serial communications. Counter value received from EAXA board is off by one cycle.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (4) of the corresponding node number (SV#5)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0105	COMMUNICATION ERROR (EAXA#6)	1	The error was detected during the check of the serial communication watchdog data. Counter value received from EAXA board is invalid.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (5) of the corresponding node number (SV#6)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		2	The error was detected during the check of the number of the serial communications. Counter value received from EAXA board is off by one cycle.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (5) of the corresponding node number (SV#6)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0106	COMMUNICATION ERROR (EAXA#7)	1	The error was detected during the check of the serial communication watchdog data. Counter value received from EAXA board is invalid.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (6) of the corresponding node number (SV#7)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		2	The error was detected during the check of the number of the serial communications. Counter value received from EAXA board is off by one cycle.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (6) of the corresponding node number (SV#7)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0107	COMMUNICATION ERROR (EAXA#8)	1	The error was detected during the check of the serial communication watchdog data. Counter value received from EAXA board is invalid.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (7) of the corresponding node number (SV#8)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		2	The error was detected during the check of the number of the serial communications. Counter value received from EAXA board is off by one cycle.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (7) of the corresponding node number (SV#8)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0110	COMMUNICATION ERROR (SU#1)			Setting error	(1)Check the following settings. • The YGW board rotary switch setting (0) of the corresponding node number (YGW#1)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of YGW board CN902,903 • The PCI connector of the YIF01 board • The cable of YIF board connector CN113
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0111	COMMUNICATION ERROR (SU#2)			Setting error	Check the following settings. • The YGW board rotary switch setting (1) of the corresponding node number (YGW#2)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of YGW board CN902,903 • The PCI connector of the YIF01 board • The cable of YIF board connector CN113
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0112	COMMUNICATION ERROR (SU#3)			Setting error	Check the following settings. • The YGW board rotary switch setting (2) of the corresponding node number (YGW#3)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of YGW board CN902,903 • The PCI connector of the YIF01 board • The cable of YIF board connector CN113
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0113	COMMUNICATION ERROR (SU#4)			Setting error	Check the following settings. • The YGW board rotary switch setting (3) of the corresponding node number (YGW#4)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of YGW board CN902,903 • The PCI connector of the YIF01 board • The cable of YIF board connector CN113
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0114	COMMUNICATION ERROR (SU#5)			Setting error	Check the following settings. • The YGW board rotary switch setting (4) of the corresponding node number (YGW#5)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of YGW board CN902,903 • The PCI connector of the YIF01 board • The cable of YIF board connector CN113
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0115	COMMUNICATION ERROR (SU#6)			Setting error	Check the following settings. • The YGW board rotary switch setting (5) of the corresponding node number (YGW#6)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of YGW board CN902,903 • The PCI connector of the YIF01 board • The cable of YIF board connector CN113
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0116	COMMUNICATION ERROR (SU#7)			Setting error	Check the following settings. • The YGW board rotary switch setting (6) of the corresponding node number (YGW#7)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of YGW board CN902,903 • The PCI connector of the YIF01 board • The cable of YIF board connector CN113
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0117	COMMUNICATION ERROR (SU#8)			Setting error	Check the following settings. • The YGW board rotary switch setting (7) of the corresponding node number (YGW#8)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of YGW board CN902,903 • The PCI connector of the YIF01 board • The cable of YIF board connector CN113
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0200	MEMORY ERROR (PARAMETER FILE)	0	The RC parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		1	The RO parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		2	The SV parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		3	The SVM parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		4	The SC parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		5	The SD parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		6	The CIO parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		7	The FD parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		8	The AP parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		9	The RS parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		10	The SE parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		11	The SVC parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		12	The AMC parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		13	The SVP parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		14	The MF parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		15	The SVS parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0210	MEMORY ERROR (SYSTEM CONFIG-DATA)		The system configuration information data are damaged.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0220	MEMORY ERROR (JOB MNG DATA)	0	The management data of job files are damaged.	Data error	(1)Turn the power OFF then back ON. (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.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		1	The job files are damaged.	Data error	(1)Turn the power OFF then back ON. (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.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		2	The management data of position data files are damaged.	Data error	(1)Turn the power OFF then back ON. (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.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		3	Memory and play back file is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0230	MEMORY ERROR (LADDER PRG FILE)		The CIO ladder file is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0240	MEMORY ERROR (DEVICENET ALLOC FL)	0	The DeviceNet allocation file 1 is damaged.	Setting error	Check the following settings. [XFB01 board] · The settings of the objective DeviceNet allocation file · The I/O module settings of the objective DeviceNet board in maintenance mode · The DeviceNet allocation of the I/O module in maintenance mode
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		1	The DeviceNet allocation file 2 is damaged.	Setting error	Check the following settings. [XFB01 board] · The settings of the objective DeviceNet allocation file · The I/O module settings of the objective DeviceNet board in maintenance mode · The DeviceNet allocation of the I/O module in maintenance mode

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0270	MEMORY ERROR (CF BACKUP FILE)		The system software version is inconsistent with the version when the internal storage data is set or the CompactFlash on the YCP01 board is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0290	MEMORY ERROR (NETWORK SETUP)		The network setting file is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then set the network again.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0300	VERIFY ERROR (SYSTEM CONFIG-DATA)	2	CIO parameter error.	Setting error	Check the following settings. · I/O module settings in maintenance mode
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		4	Axis-related parameter error.	Setting error	Check the following settings. · Control group settings in maintenance mode

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		5	Sensor-use parameter error.	Setting error	Check the following settings. · The optional board setting in maintenance mode
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		7	The set optional functions are different from those of the mounted optional board.	Setting error	Check the following settings. · The optional board setting in maintenance mode
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		8	IO type error (combination impossible to coexist).	Setting error	Check the following settings. · I/O module settings in maintenance mode
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		10	Functional Safety Unit save data error	Setting error	(1)Select the following menu. · [File] - [Initialize] - [Safety Unit FLASH Reset] in maintenance mode. (2)Turn the power OFF then back ON.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		11	Ex. AXIS INDIVIDUAL CONTROL Parameter Setting error (EX.TU# out of a range).	Setting error	Check the following settings. ·[Option function] - [Ex. AXIS INDIVIDUAL CONTROL(SDA)] settings in maintenance mode
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		12	Ex. AXIS INDIVIDUAL CONTROL Parameter Setting error (Difference in an Ex. AXIS INDIVIDUAL CONTROL Parameter and Physics TU# parameter).	Setting error	(1)Check the following settings. ·[Option function] - [Ex. AXIS INDIVIDUAL CONTROL(SDA)] settings in maintenance mode
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		13	Torque monitoring function can not be used under this setting.	Setting error	Check the following setting. ·The number of EAXA01 board(Max 1 board). ·The number of axes(Max 8 axes).
				YIF board failure	Check the following board type. ·YIF board (must be used YIF01-2E)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		14	POWER REGENERATIVE FUNCTION Parameter Setting error.	Setting error	Check the following settings. • [Option function] - [POWER REGENERATIVE FUNCTION] settings in maintenance mode
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		15	The data sending function for diagnosis system can not be used under this setting.	Setting error	Check the following setting. ·Manipulator Type
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0301	VERIFY ERROR (OVERRUN INPUT SET)		Sub Code: Control group Parameter specification and OT signal information are wrong	Setting error	Check the following settings. ·Connection settings (OT) in maintenance mode
0302	VERIFY ERROR (NSU HARDWARE SET)	0		Setting error	Check the following settings. • Connection settings function safety in maintenance mode
0310	VERIFY ERROR (CMOS MEMORY SIZE)		The CMOS memory capacity is different from its initial setting.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0320	VERIFY ERROR (I/O MODULE)	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. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The MII communications cable which I/O module of the corresponding node number · (In case of MII communications last station) Terminator · 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The MII communications cable which I/O module of the corresponding node number · (In case of MII communications last station) Terminator · 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The MII communications cable which I/O module of the corresponding node number · (In case of MII communications last station) Terminator · 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The MII communications cable which I/O module of the corresponding node number · (In case of MII communications last station) Terminator · 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The MII communications cable which I/O module of the corresponding node number · (In case of MII communications last station) Terminator · 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The MII communications cable which I/O module of the corresponding node number · (In case of MII communications last station) Terminator · 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The MII communications cable which I/O module of the corresponding node number · (In case of MII communications last station) Terminator · 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The MII communications cable which I/O module of the corresponding node number · (In case of MII communications last station) Terminator · 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The MII communications cable which I/O module of the corresponding node number · (In case of MII communications last station) Terminator · 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The MII communications cable which I/O module of the corresponding node number · (In case of MII communications last station) Terminator · 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The MII communications cable which I/O module of the corresponding node number · (In case of MII communications last station) Terminator · 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The MII communications cable which I/O module of the corresponding node number · (In case of MII communications last station) Terminator · 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The MII communications cable which I/O module of the corresponding node number · (In case of MII communications last station) Terminator · 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · MII communications cable (CN114) of the YIF board · MII communications cable (CN300) of the YIU unit · (In case of MII communications last station) Terminator · 24V power of the YIU unit
				YIU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following unit. · YIU unit
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		15	The I/O module connected to the serial bus #15 is different from the function of the set I/O module.	Setting error	Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The MII communications cable which I/O module of the corresponding node number · (In case of MII communications last station) Terminator · 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · PCI slot number in which each PCI board is mounted · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · The corresponding I/O module (PCI board)
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · PCI slot number in which each PCI board is mounted · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the corresponding I/O module

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · The corresponding I/O module (PCI board)
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · PCI slot number in which each PCI board is mounted · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · The corresponding I/O module (PCI board)
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · PCI slot number in which each PCI board is mounted · I/O module settings in maintenance mode 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. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · The corresponding I/O module (PCI board)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0330	VERIFY ERROR (APPLICATION)			YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0350	VERIFY ERROR (DEVICENET ALLOC FL)	0	The station No. specified by the DeviceNet allocation file1 is incorrect (the station No. is out of the allowable range, or the specified station board is not the DeviceNet master).	Setting error	Check the following settings. [XFB01 board] · The settings of the objective DeviceNet allocation file · The I/O module settings of the objective DeviceNet board in maintenance mode · The DeviceNet allocation of the I/O module in maintenance mode
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		1	The MAC_ID specified by the DeviceNet allocation file1 is not consistent with the MAC_ID of the specified station board.	Setting error	Check the following settings. [XFB01 board] · The settings of the objective DeviceNet allocation file · The I/O module settings of the objective DeviceNet board in maintenance mode · The DeviceNet allocation of the I/O module in maintenance mode
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		2	Inconsistency was detected in the scan list of the DeviceNet allocation file1.	Setting error	Check the following settings. [XFB01 board] · The settings of the objective DeviceNet allocation file · The I/O module settings of the objective DeviceNet board in maintenance mode · The DeviceNet allocation of the I/O module in maintenance mode
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		10	The station No. specified by the DeviceNet allocation file2 is incorrect (the station No. is out of the allowable range, or the specified station board is not the DeviceNet master).	Setting error	Check the following settings. [XFB01 board] · The settings of the objective DeviceNet allocation file · The I/O module settings of the objective DeviceNet board in maintenance mode · The DeviceNet allocation of the I/O module in maintenance mode
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		11	The MAC_ID specified by the DeviceNet allocation file2 is not consistent with the MAC_ID of the specified station board.	Setting error	Check the following settings. [XFB01 board] · The settings of the objective DeviceNet allocation file · The I/O module settings of the objective DeviceNet board in maintenance mode · The DeviceNet allocation of the I/O module in maintenance mode

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		12	Inconsistency was detected in the scan list of the DeviceNet allocation file2.	Setting error	Check the following settings. [XFB01 board] · The settings of the objective DeviceNet allocation file · The I/O module settings of the objective DeviceNet board in maintenance mode · The DeviceNet allocation of the I/O module in maintenance mode
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0370	VERIFY ERROR (SPOT WELDER I/F) VERIFY ERROR (SPOT WELDER I/F)		The designation in the parameter is different from the connected welding timer.	Setting error	Check the following settings. · The welding timer designation
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0390	VERIFY ERROR (SEGMENT CLOCK)		Illegal instruction cycle is set.	Setting error	Check the following settings. · Instruction execution cycle

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0400	PARAMETER TRANSMISSION ERROR	50	An error occurred during the parameter/file transfer to the 1st servo board.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (0) of the corresponding node number (SV#1)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		51	An error occurred during the parameter/file transfer to the 2nd servo board.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (1) of the corresponding node number (SV#2)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		52	An error occurred during the parameter/file transfer to the 3rd servo board.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (2) of the corresponding node number (SV#3)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		53	An error occurred during the parameter/file transfer to the 4th servo board.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (3) of the corresponding node number (SV#4)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		54	An error occurred during the parameter/file transfer to the 5th servo board.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (4) of the corresponding node number (SV#5)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		55	An error occurred during the parameter/file transfer to the 6th servo board.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (5) of the corresponding node number (SV#6)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		56	An error occurred during the parameter/file transfer to the 7th servo board.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (6) of the corresponding node number (SV#7)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		57	An error occurred during the parameter/file transfer to the 8th servo board.	Setting error	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (7) of the corresponding node number (SV#8)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0400	PARAMETER TRANSMISSION ERROR	60	An error occurred during the parameter/file transfer to the 1st communication conversion board (YGW01).	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#1): (0)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		61	An error occurred during the parameter/file transfer to the 2nd communication conversion board (YGW01).	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#2): (1)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		62	An error occurred during the parameter/file transfer to the 3rd communication conversion board (YGW01).	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#3): (2)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		63	An error occurred during the parameter/file transfer to the 4th communication conversion board (YGW01).	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#4): (3)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		64	An error occurred during the parameter/file transfer to the 5th communication conversion board (YGW01).	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#5): (4)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		65	An error occurred during the parameter/file transfer to the 6th communication conversion board (YGW01).	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#6): (5)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		66	An error occurred during the parameter/file transfer to the 7th communication conversion board (YGW01).	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#7): (6)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		67	An error occurred during the parameter/file transfer to the 8th communication conversion board (YGW01).	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#8): (7)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0410	MODE CHANGE ERROR	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. · Control group settings in maintenance mode · The EAXA board rotary switch setting (0) of the corresponding node number (SV#1)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · Control group settings in maintenance mode · The EAXA board rotary switch setting (1) of the corresponding node number (SV#2)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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	Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (2) of the corresponding node number (SV#3)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · Control group settings in maintenance mode · The EAXA board rotary switch setting (3) of the corresponding node number (SV#4)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · Control group settings in maintenance mode · The EAXA board rotary switch setting (4) of the corresponding node number (SV#5)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · Control group settings in maintenance mode · The EAXA board rotary switch setting (5) of the corresponding node number (SV#6)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · Control group settings in maintenance mode · The EAXA board rotary switch setting (6) of the corresponding node number (SV#7)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. · Control group settings in maintenance mode · The EAXA board rotary switch setting (7) of the corresponding node number (SV#8)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		60	An error occurred during startup sequence processing with the 1st communication conversion board (YGW01), and the system did not startup normally.	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#1): (0)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		61	An error occurred during startup sequence processing with the 2nd communication conversion board (YGW01), and the system did not startup normally.	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#2): (1)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		62	An error occurred during startup sequence processing with the 3rd communication conversion board (YGW01), and the system did not startup normally.	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#3): (2)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		63	An error occurred during startup sequence processing with the 4th communication conversion board (YGW01), and the system did not startup normally.	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#4): (3)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		64	An error occurred during startup sequence processing with the 5th communication conversion board (YGW01), and the system did not startup normally.	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#5): (4)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		65	An error occurred during startup sequence processing with the 6th communication conversion board (YGW01), and the system did not startup normally.	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#6): (5)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		66	An error occurred during startup sequence processing with the 7th communication conversion board (YGW01), and the system did not startup normally.	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#7): (6)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		67	An error occurred during startup sequence processing with the 8th communication conversion board (YGW01), and the system did not startup normally.	Setting error	Check the following settings; • Control group setting in maintenance mode • Rotary switch setting of YGW01 board for the corresponding node number(YGW#8): (7)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA board CN509 • The cable of EAXA board connector CN515/516 • The cable of YGW01 board CN901 • The cable of YGW01board connector CN901/901/903 • PCI connector of YIF01 board • The cable of YIF board connector CN113
				YGW01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YGW01 board. Save the CMOS.BIN before replacing the board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0420	DEVICENET ALLOC FL TRANSMIT ERR	1	The DeviceNet allocation file1 could not be transmitted to the specified station.	Setting error	Check the following settings. [XFB01 board] · The settings of the objective DeviceNet allocation file · The I/O module settings of the objective DeviceNet board in maintenance mode · The DeviceNet allocation of the I/O module in maintenance mode
				Board failure (XFB01B)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · XFB01B board
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		2	The DeviceNet allocation file2 could not be transmitted to the specified station.	Setting error	Check the following settings. [XFB01 board] · The settings of the objective DeviceNet allocation file · The I/O module settings of the objective DeviceNet board in maintenance mode · The DeviceNet allocation of the I/O module in maintenance mode
				Board failure (XFB01B)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · XFB01B board
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0500	SEGMENT PROC NOT READY			Setting error	Check the following settings. · Instruction execution cycle
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0510	SOFTWARE VERSION UNMATCH	20	1st option board's interface version is not corresponding to YCP01.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		21	2nd option board's interface version is not corresponding to YCP01.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		50	1st servo board's interface version is not corresponding to YCP01.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		51	2nd servo board's interface version is not corresponding to YCP01.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		52	3rd servo board's interface version is not corresponding to YCP01.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		53	4th servo board's interface version is not corresponding to YCP01.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		54	5th servo board's interface version is not corresponding to YCP01.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		55	7th servo board's interface version is not corresponding to YCP01.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		56	8th servo board's interface version is not corresponding to YCP01.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		57	9th servo board's interface version is not corresponding to YCP01.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		60	The software version of the NSU01 unit connected to the 1st servo board is unmatched.	Software error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the NSU01 unit version and then consult your Yaskawa representative.
		61	The software version of the NSU01 unit connected to the 2nd servo board is unmatched.	Software error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the NSU01 unit version and then consult your Yaskawa representative.
		62	The software version of the NSU01 unit connected to the 3rd servo board is unmatched.	Software error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the NSU01 unit version and then consult your Yaskawa representative.
		63	The software version of the NSU01 unit connected to the 4th servo board is unmatched.	Software error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the NSU01 unit version and then consult your Yaskawa representative.
		70	The software version of the YSU01 unit connected to the 1st servo board is unmatched.	Software error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. • Communication cable between EAXA board (CN517) and YSU board (CN202) (3)If the alarm occurs again, check the YSU01 unit version and then consult your Yaskawa representative.
		71	The software version of the YSU01 unit connected to the 2nd servo board is unmatched.	Software error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cable. • Communication cable between EAXA board (CN517) and YSU01 board (CN202) (3)If the alarm occurs again, check the YSU01 unit version and then consult your Yaskawa representative.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		72	The software version of the YSU01 unit connected to the 3rd servo board is unmatched.	Software error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cable. • Communication cable between EAXA board (CN517) and YSU01 board (CN202) (3)If the alarm occurs again, check the YSU01 unit version and then consult your Yaskawa representative.
		73	The software version of the YSU01 unit connected to the 4th servo board is unmatched.	Software error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cable. • Communication cable between EAXA board (CN517) and YSU01 board (CN202) (3)If the alarm occurs again, check the YSU01 unit version and then consult your Yaskawa representative.
		74	The software version of the YSU01 unit connected to the 5th servo board is unmatched.	Software error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cable. • Communication cable between EAXA board (CN517) and YSU01 board (CN202) (3)If the alarm occurs again, check the YSU01 unit version and then consult your Yaskawa representative.
		75	The software version of the YSU01 unit connected to the 6th servo board is unmatched.	Software error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cable. • Communication cable between EAXA board (CN517) and YSU01 board (CN202) (3)If the alarm occurs again, check the YSU01 unit version and then consult your Yaskawa representative.
		76	The software version of the YSU01 unit connected to the 7th servo board is unmatched.	Software error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cable. • Communication cable between EAXA board (CN517) and YSU01 board (CN202) (3)If the alarm occurs again, check the YSU01 unit version and then consult your Yaskawa representative.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		77	The software version of the YSU01 unit connected to the 8th servo board is unmatched.	Software error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cable. • Communication cable between EAXA board (CN517) and YSU01 board (CN202) (3)If the alarm occurs again, check the YSU01 unit version and then consult your Yaskawa representative.
0520	AXIS LIMIT OVER	0		Setting error	Check the following settings. · Control group settings in maintenance mode
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0600	MEDAR STATUS ERROR			MADER timer error	Refer to the instruction manual for the MEDAR function.
0601	MEDAR DIAGNOSIS ERROR			MADER timer error	Refer to the instruction manual for the MEDAR function.
0602	MEDAR VERSION ERROR			MADER timer error	Refer to the instruction manual for the MEDAR function.
0603	MEDAR REVISION ERROR			MADER timer error	Refer to the instruction manual for the MEDAR function.
0604	MEDAR MODE CHANGE ERROR			MADER timer error	Refer to the instruction manual for the MEDAR function.
0605	MEDAR SCHEDULE TRANSMIT ERROR			MADER timer error	Refer to the instruction manual for the MEDAR function.
0606	MEDAR ERROR 1			MADER timer error	Refer to the instruction manual for the MEDAR function.
0607	MEDAR ERROR 2			MADER timer error	Refer to the instruction manual for the MEDAR function.
0608	MEDAR WELDER TYPE MISMATCH			MADER timer error	Refer to the instruction manual for the MEDAR function.
0609	MEDAR PARAMETER ERROR			MADER timer error	Refer to the instruction manual for the MEDAR function.
0610	MEDAR STEPPER TRANSMIT ERROR			MADER timer error	Refer to the instruction manual for the MEDAR function.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0710	LADDER INITIALIZE ERROR			Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0720	LADDER PROGRAM ERROR	1	An error was found in the relay No. specification.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		2	An error was found in the register No. specification.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		3	An incorrect instruction was set.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		4	Output register is used redundantly.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		5	Output relay is used redundantly.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		6	Unconnected relay exists.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		7	The STR instructions are overused.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		8	The AND-STR instructions are overused.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		9	A syntax error was found in the CNT instruction.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		11	Excessive machine codes	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		12	The last instruction is not the END instruction.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		13	An error was found in the PART instruction.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		14	An error was found in the GOUT instruction.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		15	The No. of operand is incorrect.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		16	The constant value is incorrect.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		17	The step capacity exceeds the memory capacity.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		18	The number of operation instructions exceed the permissible value.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		19	A syntax error was found in the CNT instruction or TMR instruction.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		20	A syntax error was found in the JMP-LABEL instructions.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		21	The label of JMP destination does not exist.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0730	COMMUNICATION ERROR (SKS-SERIAL)	0	Welder power serial I/F task cannot be created.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		1	Incorrect values are set for the communication frame number with the welder power.	Setting error	Check the following setting. ·The number of communication frames for Welder power serial communication (RS262)
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		2	Incorrect values are set for the number of the sending bytes per frame with the welder power.	Setting error	Check the following setting. ·The number of the sending bytes for Welder power serial communication (RS262)
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		3	Incorrect values are set for the number of the receiving bytes per frame with the welder power.	Setting error	Check the following setting. ·The number of the receiving bytes for Welder power serial communication (RS262)
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		10	The binary semaphore to start up event for Welder power serial I/F task cannot be created.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		11	The event resource for Welder power serial I/F task cannot be created	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		12	The completion notification mail of Welder power serial I/F task cannot be created.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		13	Welder power serial I/F task cannot be created.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
0750			The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0751			The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0752			The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0753			The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0754			The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0755			The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0756			The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0757			The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0758			The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0759			The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0760			The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0761			The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0762			The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0763			The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0764			The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0765			The YCP01 system program is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0790	MEMORY BATTERY WEAK		The YCP01 system program is damaged.	Connection failure	Check if the battery is correctly connected to CN110/BAT on the YIF board.
				Battery failure	Refer to Chapter 5.1.1.1 Replacing the Battery in DX100 Maintenance manual (RE-CHO-A108) and replace the battery.
0800	FILE BACKUP ERROR (YCP01 CF)		The management area (FAT) of Compact Flash in YCP01 board is damaged.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0801	FILE LOAD ERROR (YCP01 CF)			YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0802	FILE I/O ERROR (YCP01 CF)			YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0803	FILE ERROR		An error occurred during the parameter of Manipulator Model (mecha.rom) loading.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0810	TOYOPUC ALLOC DEF ERROR	1	An error was found in the input/ output direction data of allocation configuration.	Setting error	Check the following settings. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		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. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		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. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		8	An error was found in the type set for output direction of allocation configuration data.	Setting error	Check the following settings. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		9	An error was found in the type set for input direction of allocation configuration data.	Setting error	Check the following settings. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		10	An error was found in the type specified for system data of allocation configuration data.	Setting error	Check the following settings. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		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. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		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. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		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. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		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. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		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. · Allocation configuration for the TOYOPUC

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		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. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		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. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		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. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		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. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		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. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		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. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		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. · Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
		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. · Allocation configuration for the TOYOPUC

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. · The PCI connector of the TOYOPUC board
0900	WATCHDOG TIMER ERROR (YIF BOARD)		A Watchdog timeout was detected in the YIF board.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0901	WATCHDOG TIMER ERROR (YCP02#1)		A Watchdog timeout was detected in the YCP02 #1 board.	Setting error	Check the following settings. · Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
0902	WATCHDOG TIMER ERROR (YCP02#2)		A Watchdog timeout was detected in the YCP02 #2 board.	Setting error	Check the following settings. · Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
0903	WATCHDOG TIMER ERROR (YCP02#3)		A Watchdog timeout was detected in the YCP02 #3 board.	Setting error	Check the following settings. · Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
0904	WATCHDOG TIMER ERROR (YCP02#4)		A Watchdog timeout was detected in the YCP02 #4 board.	Setting error	Check the following settings. · Optional board in maintenance mode

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
0905	WATCHDOG TIMER ERROR (YCP02#5)		A Watchdog timeout was detected in the YCP02 #5 board.	Setting error	Check the following settings. · Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
0906	WATCHDOG TIMER ERROR (YCP02#6)		A Watchdog timeout was detected in the YCP02 #6 board.	Setting error	Check the following settings. · Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
0907	WATCHDOG TIMER ERROR (YCP02#7)		A Watchdog timeout was detected in the YCP02 #7 board.	Setting error	Check the following settings. · Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
0908	WATCHDOG TIMER ERROR (YCP02#8)		A Watchdog timeout was detected in the YCP02 #8 board.	Setting error	Check the following settings. · Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
0910	CPU ERROR (YCP01)	1	An error was detected in the CPU.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0911	CPU ERROR (YCP02#1)		An error was detected in the CPU.	Setting error	Check the following settings. · Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
0912	CPU ERROR (YCP02#2)		An error was detected in the CPU.	Setting error	Check the following settings. · Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
0913	CPU ERROR (YCP02#3)		An error was detected in the CPU.	Setting error	Check the following settings. · Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
0914	CPU ERROR (YCP02#4)		An error was detected in the CPU.	Setting error	Check the following settings. · Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
0915	CPU ERROR (YCP02#5)		An error was detected in the CPU.	Setting error	Check the following settings. · Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
0916	CPU ERROR (YCP02#6)		An error was detected in the CPU.	Setting error	Check the following settings. · Optional board in maintenance mode

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
0917	CPU ERROR (YCP02#7)		An error was detected in the CPU.	Setting error	Check the following settings. · Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
0918	CPU ERROR (YCP02#8)		An error was detected in the CPU.	Setting error	Check the following settings. · Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. · YCP02 board
0920	BUS ERROR (YCP01)	1	The JL chip does not operate normally.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0931	CPU HANG UP ERROR (YCP02#1)		An error was detected in the CPU.	Setting error	Check the following settings. • Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0932	CPU HANG UP ERROR (YCP02#2)		An error was detected in the CPU.	Setting error	Check the following settings. • Optional board in maintenance mode

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0933	CPU HANG UP ERROR (YCP02#3)		An error was detected in the CPU.	Setting error	Check the following settings. • Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0934	CPU HANG UP ERROR (YCP02#4)		An error was detected in the CPU.	Setting error	Check the following settings. • Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0935	CPU HANG UP ERROR (YCP02#5)		An error was detected in the CPU.	Setting error	Check the following settings. • Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0936	CPU HANG UP ERROR (YCP02#6)		An error was detected in the CPU.	Setting error	Check the following settings. • Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0937	CPU HANG UP ERROR (YCP02#7)		An error was detected in the CPU.	Setting error	Check the following settings. • Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0938	CPU HANG UP ERROR (YCP02#8)		An error was detected in the CPU.	Setting error	Check the following settings. • Optional board in maintenance mode
				Board failure (YCP02 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0939	CPU HANG UP ERROR (MP-PRESS)		An error was detected in the CPU.	Setting error	Check the following settings. • Optional board in maintenance mode
				Board failure (MP2110 board)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • MP2110 board

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0950	CPU ERROR (EAXA#1)		An error was detected in the CPU of servo board #1.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0951	CPU ERROR (EAXA#2)		An error was detected in the CPU of servo board #2.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0952	CPU ERROR (EAXA#3)		An error was detected in the CPU of servo board #3.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0953	CPU ERROR (EAXA#4)		An error was detected in the CPU of servo board #4.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0954	CPU ERROR (EAXA#5)		An error was detected in the CPU of servo board #5.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0955	CPU ERROR (EAXA#6)		An error was detected in the CPU of servo board #6.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0956	CPU ERROR (EAXA#7)		An error was detected in the CPU of servo board #7.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0957	CPU ERROR (EAXA#8)		An error was detected in the CPU of servo board #8.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The cable of EAXA board CN509 · The cable of EAXA board connector CN515/516 · The PCI connector of the YIF01 board · The cable of YIF board connector CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0990	SYSTEM ERROR(YCP01)	1	Power Lost Signal Error	YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		2	WDG Signal Error	YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		3	M3 chip Error	YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		4	M2 Chip Error	YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0991	SYSTEM ERROR(YCP02#1)	1	An error was detected in the CPU of the optional YCP02 #1.	YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. ・YCP02 board
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 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).
0992	SYSTEM ERROR(YCP02#2)	1	An error was detected in the CPU of the optional YCP02 #2.	YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. ・YCP02 board

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 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).
0993	SYSTEM ERROR(YCP02#3)	1	An error was detected in the CPU of the optional YCP02 #3.	YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. ・YCP02 board
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 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).
0994	SYSTEM ERROR(YCP02#4)	1	An error was detected in the CPU of the optional YCP02 #4.	YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. ・YCP02 board
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	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).
0995	SYSTEM ERROR(YCP02#5)	1	An error was detected in the CPU of the optional YCP02 #5.	YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. ・YCP02 board
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 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).
0996	SYSTEM ERROR(YCP02#6)	1	An error was detected in the CPU of the optional YCP02 #6.	YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. ・YCP02 board
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 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).
0997	SYSTEM ERROR(YCP02#7)	1	An error was detected in the CPU of the optional YCP02 #7.	YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. ・YCP02 board

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 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).
0998	SYSTEM ERROR(YCP02#8)	1	An error was detected in the CPU of the optional YCP02 #8.	YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. ・YCP02 board
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1000	ROM ERROR (YCP01)			Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1001	ROM ERROR (EAXA01)	10	A checksum error occurred in the board or the EEPROM.(***: axis No.)	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		20	The SRDY signal did not turn ON after the WRITE ENABLE command was written. (EEPROM WRITE ENABLE error)	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		21	The SRDY signal did not turn ON after the WRITE PROTECT command was written. (EEPROM WRITE PROTECT error)	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		22	The SRDY signal did not turn ON after the ERASE command was written. (EEPROM ERASE error)	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		23	The SRDY signal did not turn ON after the CLEAR command was written. (EEPROM CLEAR error)	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		24	The SRDY signal did not turn ON after data were written. (EEPROM writing error)	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		25	The SRDY signal did not turn ON after data were read. (EEPROM reading error)	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		26	The written data were rejected at verification. (EEPROM verify error)	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
1003	ROM ERROR (YCP02)				
1030	MEMORY ERROR (PARAMETER FILE)	0	RCD, RCxG parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		1	ROxG parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		2	SVD, SVxG parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		3	SVMxG parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		4	S1CxG, S2C, S3C, S4C parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		5	S1D, S2D, S3D, S4D parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		6	CIO parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		7	FD parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		8	A1P parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		9	RS parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		10	S1E parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		11	SVxB parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		12	AMCxG parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		13	SVPxG parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		14	MFxG parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		15	SVSxB parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
1030		16	RExG parameter error	Data error	(1)Turn the power OFF then back ON. (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.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
1031	MEMORY ERROR (MOTION1)	0	GET FILE instruction, SET FILE instruction execution target file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		1	Home position calibration file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		2	Tool file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		3	User coordinates file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		4	Robot calibration file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		5	Tool calibration file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		6	Weaving amplitude condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		7	Home position correction data file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		8	Conveyor calibration file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		9	Arm and tool interference prevention file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		20	Weaving file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		21	Power Source condition data file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		22	Welding condition auxiliary file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		23	Arc start condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		24	Arc end condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		25	COMARC condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		26	COMARC data file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		27	Path correction condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		28	Painting characteristics file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		29	Painting condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		30	Multi-layer index file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		31	Multi-layer condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		32	Sensor monitoring condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		34	Conveyor condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		35	Press characteristics file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		36	Servo float condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		37	Spot welding Power Source condition data file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		38	Air-gun condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		39	Motor-gun condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		40	Gun pressure file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		41	Gun pressure file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		42	Anticipation OT# output file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		43	Anticipation OG# output file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		44	Handling condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		45	Form cut file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		46	Spot (user) I/O allocation file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		47	Linear servo float condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		48	Macro definition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		49	Seal amount correction condition file (spray)	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		50	Seal amount correction condition file (undercoat)	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		51	Arc monitor file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		53	Job registration table	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		54	Painting device condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		55	Painting system file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		56	Painting condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		57	Paint characteristics file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		58	EVB gun file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		59	Paint filling file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		60	Welding pulse condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		61	Clearance file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		62	Linear scale condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		63	Gauging sensor condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		64	Conveyor condition auxiliary file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		65	Laser welding start condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		66	Laser welding end condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		67	Palletizing condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		68	Air-gun pressure file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
		69	Mastering registration position	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
1050	SET-UP PROCESS ERROR(SYSCON)	1	Motion instruction setup incomplete.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				Software operation error occurred	(1)Turn the power OFF then back ON. (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	Online error	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		3	SPOT management file setup incomplete.	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1051	SET-UP PROCESS ERROR(MOTION)	1	Unable to properly activate the servo control	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (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	The position data of when the power supply was turned OFF cannot be transmitted to the servo control section	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (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	The servo control section cannot receive the position data of when the power supply was turned OFF	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Unable to send a request to prepare a feedback pulse	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Unable to prepare a feedback pulse	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	Unable to send a request to initialize the arithmetic section (ARITH)	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		10	Unable to initialize ARITH	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	Unable to send a request to prepare the current position	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		12	Unable to prepare the current position	YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1101	SYSTEM ERROR (MAN-MACHINE MECHA)		Sub Code 1 to 6: Internal control error in software	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1102	SYSTEM ERROR (MAN-MACHINE APPLI)		Sub Code 1 to 526: Internal control error in software	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1103	SYSTEM ERROR (EVENT)			Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
			Sub Code 1 to 8: Signifies the internal software error at event process.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1104	SYSTEM ERROR (CIO)		Sub Code 1000_0000: I/O module setting error	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·CN300 communications connector of YIU unit ·CN304 power supply connector ·Cable of the YIU unit and the expanded I/O board
				Setting error	(1)Turn the power OFF then back ON. (2)If the error occurs again, set the I/O module again in maintenance mode. (3)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
1105	SYSTEM ERROR (SERVO)	0	No processing corresponds to the command code sent from MOTION section.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		15	An error occurred in the encoder power supply control process.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		21	A task request was sent to an axis in the alarm status.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		23	A task request was sent to the general SERVOPACKs.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	Check the parameter setting value. If S1CxG170 is set to the number other than 0 (gun axis), change the setting to 0.
		37	The manipulator (B-axis) passed the singular point while the linear servo float or gun arm bend compensation function was running.	Setting error	Check the following settings. 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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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)Check the following settings. Correct the teaching point where this alarm occurs. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		49	Parameter was changed during execution of servo float function.	Setting error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		52	An error occurred when gun control command is executed.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		60	The axis endless function is set enabled for motor guns.	Setting error	Check the following settings. Disable the corresponding axis endless function.
		70	The machine safety unit (YSU01) doesn't support the external axis individual control by the secondary contactor.	YSU01unit failure	Replace the YSU01 unit which supports for the external axis individual control by the secondary contactor.
		100	The sequence was untimely executed in the general-purpose 10ms process although it was not the execution timing.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		101	The sequence was untimely executed in the segment_G process although it was not the execution timing.	Software operation error occurred	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		103	The sequence was untimely executed in the general-purpose 2ms process although it was not the execution timing.	Software operation error occurred	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		105	The sequence was untimely executed in the dynamics calculation process although it was not the execution timing.	Software operation error occurred	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		106	The sequence was untimely executed in the dynamics compensation process although it was not the execution timing.	Software operation error occurred	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		107	The sequence was untimely executed in the servo communications CERF sending process although it was not the execution timing.	Software operation error occurred	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		108	The sequence was untimely executed in the servo communications CERF receiving process although it was not the execution timing.	Software operation error occurred	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		109	The sequence was untimely executed in the segment_R process although it was not the execution timing.	Software operation error occurred	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		110	The universal three clock process executing sequence error process was executed according to unexpected timing.	Software operation error occurred	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		112	The sequence was untimely executed in the segment_OPT1 process although it was not the execution timing.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		113	The sequence was untimely executed in the segment_OPT2 process although it was not the execution timing.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		120	A general-purpose 10ms process did not complete within the time set on the scheduling table.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		121	The segment_G process did not complete within the time set on the scheduling table.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		123	The general-purpose 2ms process did not complete within the time set on the scheduling table.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		125	The dynamics calculation process did not complete within the time set on the scheduling table.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		126	The dynamics compensation process did not complete within the time set on the scheduling table.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		127	The CERF transmission process did not complete within the time set on the scheduling table.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		128	The dynamics calculation process did not complete within the time set on the scheduling table.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		129	The CERF receiving process did not complete within the time set on the scheduling table.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		130	The segment_R process did not complete within the time set on the scheduling table.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		131	The segment_E process did not complete within the time set on the scheduling table.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		132	The segment_OPT1 process did not complete within the time set on the scheduling table.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		133	The segment_OPT3 process did not complete within the time set on the scheduling table.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		151	The averaging time is not an even number. (times)	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		500	Inconsistency of FP register.	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1002	The check item number of SVM parameter is unmatched.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		1003	The check item number of SVP parameter is unmatched.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3000	The parameter number of the universal SERVOPACK is not valid.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4000	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6000	The value set for A1P36 exceeds the permissible value.	Setting error	The value set for A1P36 exceeds the permissible value.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		7100	The override ratio is invalid.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7200	Interpolation cycle is shorter than the set value.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7400	Buffer-related area for category 1 has not completed initialization.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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 condition file is over 100%. Change the setting value to less than 100%.
		32807	An error occurred in the first encoder communications.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. ·EAXA01-CN508
1109	SYSTEM ERROR (CONVEYOR)				
1200	HIGH TEMPERATURE (IN CNTL BOX)			The temperature rises in the controller	Turn the power OFF then back ON after cooling the controller.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following cable. ·CN159 power supply cable of the cooling fan in the YPS unit
				YPS unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following unit. · YPS unit
1204	COMMUNICATION ERROR (I/O MODULE)	****_ ****_ ****_ ****	The communication error slot (Serial-bus-connected I/O module communication station No.) is displayed by the bit. 0: correct / 1: incorrect	Connection failure	Check the insertion and connection of the followings. · The MII communications cable which I/O module of the corresponding sub code · (In case of MII communications last station) Terminator · 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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF01board broken	Save the CMOS.BIN file. Replace the YIF board, and then load the saved CMOS.BIN file.
1219	ENABLE SW STICKING		The enable switch signal of Programming Pendant was unmatched for a certain time, or enable switch signal is on even though the enable switch on the programming pendant is released.	Programing pendant illegal operation	(1)Turn the power OFF then back ON. (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. Check how to squeeze or put the programming pendant on flat.
				Programming pendant failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the programming pendant.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the programming pendant.
				YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save CMOS.BIN before replace the YSU unit to be safe.
				NSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU unit. Save CMOS.BIN before replace the NSU 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).
1220	LAN COMMUNICATION PARAMETER ERROR	1	Incorrect setting of the IP address which is used in the Ethernet function.	Setting error	Check the following settings. · IP address setting of network in maintenance mode
		2	Incorrect setting of the subnet mask which is used in the Ethernet function.	Setting error	Check the following settings. · Subnet mask of network in maintenance mode
		3	Incorrect setting of the default gateway which is used in the Ethernet function.	Setting error	Check the following settings. · Default gateway of network in maintenance mode
		4	Incorrect setting of the host address which is used in the Ethernet function.	Setting error	Check the following settings. · Server (host) of network in maintenance mode
		30	Incorrect setting of the parameter which is used for the SNTP of the Ethernet function.	Setting error	Check the following settings. · SNTP setting of network in maintenance mode
		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. · SNTP setting of network in maintenance mode

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. · SNTP setting of network in maintenance mode
		33	Incorrect setting of the DHCP parameter which is used in the Ethernet function of the SNTP.	Setting error	Check the following settings. ·SNTP setting of network in maintenance mode
		70	Incorrect setting of the host name which is used in the Ethernet function.	Setting error	Check the following settings. · Host name of network in maintenance mode
		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. · DNS setting of network in maintenance mode
		73	Incorrect setting of the DHCP parameter which is used in the Ethernet function of the DNS.	Setting error	Check the following settings. · DNS setting of network in maintenance mode
		74	Incorrect setting of the DHCP parameter which is used in the Ethernet function of the DNS.	Setting error	Check the following settings. · DNS setting of network in maintenance mode
		75	Incorrect setting of the domain which is used in the Ethernet function.	Setting error	Check the following settings. · Domain name of network in maintenance mode
1221	ETHERNET INITIAL PROCESS ERROR	1	An error occurred in the device initialization process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		2	An error occurred in the IP address setting process of the Ethernet function.	Setting error	Check the following settings. ·IP address setting of network in maintenance mode
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		3	An error occurred in the subnet mask setting process of the Ethernet function.	Setting error	Check the following settings. ·Subnet mask of network in maintenance mode
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		4	An error occurred in the default gateway setting process of the Ethernet function.	Setting error	Check the following settings. · Default gateway of network in maintenance mode
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		5	An error occurred in the host name setting process of the Ethernet function.	Setting error	Check the following settings. · Server (host) of network in maintenance mode
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		6	An error occurred in the MAC address getting process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		59	An error occurred in the DHCP acquisition item setting process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		60	An error occurred in the DHCP initialization process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		61	An error occurred in the DHCP interface of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		62	The data acquisition process from the server did not complete within regulated time.	Setting error	Check the following settings. ·The DHCP server operation · The network status
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		63	The data acquired from the server were found illegal in the DHCP of the Ethernet function.	Setting error	Check the following settings. · The DHCP server operation · The network status
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		64	An error occurred in the subnet mask acquisition process in the DHCP of the Ethernet function.	Setting error	Check the following settings. · The DHCP server operation · The network status
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		65	An error occurred in the DNS server address acquisition process in the DHCP of the Ethernet function.	Setting error	Check the following settings. · The DHCP server operation · The network status
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		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. · The DHCP server operation · The network status
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		67	An error occurred in the SNTP server address acquisition process in the DHCP of the Ethernet function.	Setting error	Check the following settings. · The DHCP server operation · The network status
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		68	An error occurred in the IP address acquisition process in the DHCP of the Ethernet function.	Setting error	Check the following settings. · The DHCP server operation · The network status

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		69	An error occurred in the DHCP interface structure object mapping process of the Ethernet function.	Setting error	Check the following settings. · The DHCP server operation · The network status
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		70	An error occurred in the DNS resolver initialization process of the Ethernet function.	Setting error	Check the following settings. · The domain name · The DNS related settings · The DHCP server operation · The network status
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		71	An error occurred in the DNS resolver setting of the Ethernet function.	Setting error	Check the following settings. ·The domain name · The DNS related settings · The DHCP server operation · The network status
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		72	The parameter setting error occurred in the DNS resolver setting of the Ethernet function.	Setting error	Check the following settings. · The domain name · The DNS related settings · The DHCP server operation · The network status

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		73	The mode error occurred in the DNS resolver setting of the Ethernet function.	Setting error	Check the following settings. · The domain name · The DNS related settings · The DHCP server operation · The network status
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		80	An error occurred in the basic library initialization process of the Ethernet function.	Other system failure	When EtherNet/IP (PCU-ETHIO) is enabled and offline alarm (alarm code is 0000 - 0999) is occurred, take countermeasures of the offlinealarm.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		100	An error occurred in the IP address acquisition process in the DHCP of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
1222	IP ADDRESS SET FAIL(DHCP)		IP address could not be obtained at DHCP.	Setting error	Check the following settings. · The DHCP server operation · The network status
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
1226	IO MODULE PROC TIMEOUT	16	Data exchange processing of EtherNet/IP board or PROFINET board which made by Molex was not completed within defined period. This subcode means that IO module No.16 occurs this alarm.	Network Setting error	(1) Change the network setting to reduce the numbers of packets less than 3000 packets/seconds. (2) Confirm the network setting. i.e. ethernet loop will occur this alarm.
				IO module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the IO module which No. is 16. Save the CMOS.BIN before replace the IO module to be safe.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		17	Data exchange processing of EtherNet/IP board or PROFINET board which made by Molex was not completed within defined period. This subcode means that IO module No.17 occurs this alarm.	Network Setting error	(1) Change the network setting to reduce the numbers of packets less than 3000 packets/seconds. (2) Confirm the network setting. i.e. ethernet loop will occur this alarm.
				IO module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the IO module which No. is 17. Save the CMOS.BIN before replace the IO module to be safe.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		18	Data exchange processing of EtherNet/IP board or PROFINET board which made by Molex was not completed within defined period. This subcode means that IO module No.18 occurs this alarm.	Network Setting error	(1) Change the network setting to reduce the numbers of packets less than 3000 packets/seconds. (2) Confirm the network setting. i.e. ethernet loop will occur this alarm.
				IO module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the IO module which No. is 18. Save the CMOS.BIN before replace the IO module to be safe.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
		19	Data exchange processing of EtherNet/IP board or PROFINET board which made by Molex was not completed within defined period. This subcode means that IO module No.19 occurs this alarm.	Network Setting error	(1) Change the network setting to reduce the numbers of packets less than 3000 packets/seconds. (2) Confirm the network setting. i.e. ethernet loop will occur this alarm.
				IO module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the IO module which No. is 19. Save the CMOS.BIN before replace the IO module to be safe.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
1300	SERVO CPU SYNCHRONIZING ERROR	0		Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · EAXA01-CN515 · YIF01-CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1301	COMMUNICATION ERROR(SERVO)	0	Communication status error	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. ·EAXA01-CN515 ·YIF01-CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN.
		1	Watchdog timer error	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. ·EAXA01-CN515 ·YIF01-CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN.
		2	JL0101 alarm	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. ·EAXA01-CN515 ·YIF01-CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		3	Communication status error	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. ·EAXA01-CN515 ·YIF01-CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN.
		4	Data consistency error	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. ·EAXA01-CN515 ·YIF01-CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1302	COMMUNICATION ERROR (SERVO I/O)	1	No interrupt from servo I/O communications (JL098) occurred. (Communication loop back)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. ·EAXA01-CN517 ·YSU01-CN202
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace theYIF01 board. Save the CMOS.BIN before replace the board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	The servo I/O communications (JL098) received status is incorrect. (No interrupt)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. ·EAXA01-CN517 ·YSU01-CN202
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace theYIF01 board. Save the CMOS.BIN before replace the board.
		4	The servo I/O communications (JL098) buffer switch status is incorrect. (Watchdog timer error)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. ·EAXA01-CN517 ·YSU01-CN202
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace theYIF01 board. Save the CMOS.BIN before replace the board.
		5	The servo I/O communications (JL098) receiving status is incorrect. (Command timeout)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. ·EAXA01-CN517 ·YSU01-CN202
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace theYIF01 board. Save the CMOS.BIN before replace the board.
		0010	The communications loop back value of servo I/O communications (JL098) is incorrect. (Communication loop back) (First two digits show the station number of the connected unit)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. ·EAXA01-CN517 ·YSU01-CN202

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN.
		0011	The received address of JL098 is unmatched with the sent address. (First two digits show the station number of the connected unit)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. ·EAXA01-CN517 ·YSU01-CN202
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN.
		0012	The received buffer of JL098 is incorrect. (First two digits show the station number of the connected unit)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. ·EAXA01-CN517 ·YSU01-CN202
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1303	ARITHMETIC ERROR(SERVO)		The data [X____] indicates the generation process. 10000: Observer control 20000: High-precision path control 30000: Dynamics 40000: Disturbance observer control The data [_YYY_] indicates the alarm contents. The data [____Z] indicates the physical axis number.	Tool file setting error	Check the following settings. Reexamine the tool file setting. (Check the units of mass and center of gravity, positive/negative signs.)
				Motor load error	Check the followings. Overload is applied to the manipulator. Correct the tools, the work pieces, and the drive condition.
1304	EX-AXIS BOARD NOT INSTALLED			Setting error	Check the following settings. Check the parameter setting of external axis selection.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · EAXA01-CN517 · YSU01-CN202
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
1306	AMPLIFIER TYPE MISMATCH		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. · Check the current capacity of the amplifier before/after replacement by the model described in board. · 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. Reference parameter: after SVPxG232
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. ·EAXA01-CN517 ·YSU01-CN202
				Module failure (amplifier)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the amplifier.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
1307	ENCODER TYPE MISMATCH		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. ·Check the motor type before and after the replacement. · 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.
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the amplifier.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
1308	CONVERTER TYPE MISMATCH		Sub Code: Signifies the converter in which the alarm occurred	Setting error	Check the following settings. · Check the current capacity of the amplifier before/after replacement by the model described in board. · 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. Reference parameter: after SVCxB040
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The MII communications cable which I/O module of the corresponding sub code · (In case of MIIcommunications last station) Terminator · 24V power of the corresponding I/O module
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1309	HARDWARE ERROR (CONVERTER)			Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1310	CHARGE ERROR (CONVERTER)			Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
				Primary power failure	Check if the primary power supply voltage does not drop with a tester, etc.
1311	A/D DETECTION ERROR (CONVERTER)			Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1312	ID ERROR (CONVERTER)		Sub Code: Signifies the converter in which the alarm occurred	Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1313	COMMAND ERROR(SERVO)			Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1314	VERIFY ERROR (PARAMETER) (SERVO)			Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1315	SERVOPACK ERROR(SERVO)			Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1316	COMMUNICATION WDT ERROR (SERVO)			Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · EAXA01-CN515 · YIF01-CN113
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board. Replace the YCP01 board, and then remove the CF from the failure YCP01 board to insert it into the new YCP01 board.
1317	COMMAND TIMEOUT(SERVO)			Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1318	CANNOT EXECUTE COMMAND (SERVO)			Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1319	SERIAL ENCODER MODULE ERROR			Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
1320	SERIAL ENCODER SENSOR ERROR			Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
1321	BRAKE BOARD ERROR			Connection failure	Check the connection of wiring around the brake circuit board.
1322	BRAKE BOARD STICKING			YBK board failure	Check the cutout relay for the brake board main circuit.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1325	COMMUNICATION ERROR (ENCODER)		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
1326	DEFECTIVE ENCODER ABSOLUTE DATA		Sub Code: Signifies the axis in which the alarm occurred	Module failure (encoder)	Check the following settings. Replace the defective motor (encoder). · Check the position after the alarm.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
				External environment	Check the following settings. · Check the grounding condition of Manipulator. · Check whether it is installed into the strong magnetic field. · Check the position after the alarm.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1327	ENCODER OVER SPEED		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Encoder failure	Replace the defective motor (encoder).
				Module failure (brake)	Check the following settings. Check whether to find error in the brake slip and the brake control relay.
1328	DEFECTIVE ENCODER		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
1329	DEFECTIVE SERIAL ENCODER COMMAND		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
1330	MICRO PROGRAM TRANSMIT ERROR		Sub Code: Signifies the axis in which the alarm occurred	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
1331	CONVERTER CHARGE ERR (CONVERTER)			Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
				Primary power failure	Check if the primary power supply voltage does not drop.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · EAXA01-CN507,510 · EAXB01-CN08 · Converter CN551,553
1332	POSITION ERROR			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe. · Check the position after the alarm.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Noise interference	Check the following settings. · Check the grounding condition of Manipulator. · Install a ferrite core to the motor power line.
1333	POSITION ERROR (SERIAL ENCODER)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Noise interference	Check the following settings. · Check the grounding condition of Manipulator. · Install a ferrite core to the motor power line.
1335	ENCODER NOT RESET		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Battery failure	[Robot axis] Replace the battery inside the manipulator. [External axis] Check the voltage of external axis battery.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1339	OVER SPEED LIMIT			Setting error	Check the JOB.
1341	SERVO OVERRUN ERROR			Motion range error	Check if the overrun limit switch is activated by the manipulator.
				Connection failure	Check the overrun line.
1343	COMMUNICATION ERROR (CONVERTER)	001	Communication status error (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · EAXA01-CN507,510 · EAXB01-CN08 · Converter CN551,553
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
		002	Command timeout (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · EAXA01-CN507,510 · EAXB01-CN08 · Converter CN551,553
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		003	Sent buffer FULL (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · EAXA01-CN507,510 · EAXB01-CN08 · Converter CN551,553
				Converter failure	Replace the converter.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		004	CRC-16 error (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · EAXA01-CN507,510 · EAXB01-CN08 · Converter CN551,553
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		005	Error code received (The first digit shows the converter No)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · EAXA01-CN507,510 · EAXB01-CN08 · Converter CN551,553
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		006	Received command error (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · EAXA01-CN507,510 · EAXB01-CN08 · Converter CN551,553
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1345	SAFE CIRCUIT SIGNAL NOT SAME(SV)		Sub Code: XYY (Signifies the power-ON unit No. and unmatched signal No.) X: Power-ON unit 0: Power-ON unit1 (TU#1) 1: Power-ON unit2 (TU#2) 2: Power-ON unit3 (TU#3) 3: Power-ON unit4 (TU#4) 4: Power-ON unit5 (TU#5) 5: Power-ON unit6 (TU#6) YY: Unmatched signal 01: KMMA signal unmatched error 02: SVMAIN signal unmatched error 03: SVMAIN1/2 signal unmatched error 04: IORDY signal unmatched error 05: ONEN signal unmatched error 06: FUCUT signal unmatched error 07: SHOCK1 signal unmatched error 08: EXOT signal unmatched error 09: OT signal unmatched error 10: TUSONER signal unmatched error 11: SVCMPER signal unmatched error 12: TCER signal unmatched error 13: SON_OUT signal unmatched error 14: BRRVER signal unmatched error	Connection failure	Check if the unmatched two double-checked signals are in agreement.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1345 (continued from previous page)	SAFE SIRCUIT SIGNAL NOT SAME(SV)		60: Error due to unmatched output signal for servo board failure 61: Error due to unmatched signal for the main contactor state (closed contact) 62: Error due to unmatched signal for the main contactor state (open contact) 63: Error due to unmatched input signal for the main contractor control relay 64: Error due to unmatched input signal for the OT recovery 65: Error due to unmatched input signal for the external WDT 66: Error due to unmatched 1FB input signal: the brake release control signal E.g.) Sub Code: 208 EXOT signal of the Power-ON unit2 (TU#2) is unmatched.	Connection failure	Check if the unmatched two double-checked signals are in agreement.
1349	POWER LOST DETECTION(EAXA01/02)			Instant power failure	Check if the primary power supply voltage is dropping.
1350	POWER ON UNIT TYPE MISMATCH				
1352	SERIAL ENCODER CORRECTION ERROR		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
1353	BOARD MISMATCH (EAXB02)			EAXB02 board mismatch	Check whether · The EAXB02 board is installed or not. · The board other than EAXB02 is installed or not.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · EAXA01-CN517 · EAXB02 board
				EAXB02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXB02 board. Save the CMOS.BIN before replace the board to be safe.
1354	POWER REGENERATIVE UNIT FAILURE		An error occurred in the power regenerative unit. Sub Code: the power regenerative unit signal no. 0000_0001:DIN1 0000_0010:DIN2 0000_0100:DIN3 0000_1000:DIN4 0001_0000:DIN5 0010_0000:DIN6 0100_0000:AXIN1 1000_0000:AXIN2	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ・EAXA-CN514 ・Power regenerative unit-TB2

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
				Power regenerative unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, contact your Yaskawa representative about occurrence status (operating procedure).
1355	SERIAL ENC MULTITURN LIMIT ERR		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
1356	SPECIFIED AXIS ERROR			Setting error	Check the job setting.
1357	PRESS ERROR			Setting error	Check the job setting.
1360	PA NOT INSTALLED			Connection failure	Check the inserting and connection of prealigner.
1361	STATUS ERROR (REGENERATION)	1	An error occurred in the power regenerative unit. Overcurrent (oC), Ground fault (GF) occurred in the power regenerative unit.	Power regenerative unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	Overvoltage (ov) occurred in the power regenerative unit.	Power regenerative unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, contact your Yaskawa representative about occurrence status (operating procedure).
		3	Converter Overload (oL2) occurred in the power regenerative unit.	Power regenerative unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, contact your Yaskawa representative about occurrence status (operating procedure).
		4	Overheat 1 (oH1),Drive Overheat Warning (oH2) occurred in the power regenerative unit.	Power regenerative unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, contact your Yaskawa representative about occurrence status (operating procedure).
		9	Hardware Fault (includes oF) occurred in the power regenerative unit.	Power regenerative unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, contact your Yaskawa representative about occurrence status (operating procedure).
		12	Main Circuit Undervoltage (Uv) occurred in the power regenerative unit.	Power regenerative unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, contact your Yaskawa representative about occurrence status (operating procedure).
		13	Undervoltage (Uv1),Control Power Supply Undervoltage (Uv2),Soft Charge Circuit Fault (Uv3) occurred in the power regenerative unit.	Power regenerative unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, contact your Yaskawa representative about occurrence status (operating procedure).
		15	MEMOBUS/Modbus Communication Error (CE),Option Communication Error (bUS) occurred in the power regenerative unit.	Power regenerative unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, contact your Yaskawa representative about occurrence status (operating procedure).
		200	Ground fault (GF) occurred in the power regenerative unit.	Power regenerative unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, contact your Yaskawa representative about occurrence status (operating procedure).
1362	SIGNAL ERROR (REGENERATION)		An error occurred in the power regenerative unit. Sub Code: The power regenerative unit channel no. 0000_0001:CH1 0000_0010:CH2 0000_0100:CH3 0000_1000:CH4	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ・EAXA-CN514 ・Power regenerative unit-TB2
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Power regenerative unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, contact your Yaskawa representative about occurrence status (operating procedure).
1363	MEMOBUS ERROR (REGENERATION)		The communication setting error occurred in the power regenerative unit. Sub Code: The power regenerative unit channel no. 0000_0001:CH1 0000_0010:CH2 0000_0100:CH3 0000_1000:CH4	Setting error	Check the parameter settings.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
1364	NOT READY (REGENERATION)		An error occurred in the power regenerative unit. Sub Code: The power regenerative unit channel no. 0000_0001:CH1 0000_0010:CH2 0000_0100:CH3 0000_1000:CH4	Power regenerative unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, contact your Yaskawa representative about occurrence status (operating procedure).
1400	ENCODER ERROR (CONVEYOR)	1	Conveyor encoder 1 is abnormal.	Connection failure, Module failure (encoder)	Replace the cable of the conveyor encoder 1 or encoder.
		2	Conveyor encoder 2 is abnormal.	Connection failure, Module failure (encoder)	Replace the cable of the conveyor encoder 2 or encoder.
		3	Conveyor encoder 3 is abnormal.	Connection failure, Module failure (encoder)	Replace the cable of the conveyor encoder 3 or encoder.
1401	CANNOT CHANGE CONVEYOR MODE		The encoder mode "Encoder/ Virtual encoder" was switched by the general input while performing conveyor synchronized function.	Input error	Do not switch "Encoder/Virtual encoder" with the general signal while performing the conveyor synchronized function.
1402	WORK IN/NOT DATA CNT. LMT. OVER		An arithmetic error occurred for the current position pulse of WORK IN/ NOT shift data.	Workpiece status error	Check the work in/not shift data and the actual workpiece status within the shift area.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1403	WORK IN/NOT SHIFT DATA POS LMT.		An arithmetic error occurred for the current travel length of WORK IN/ NOT shift data.	Workpiece status error	Check the work in/not shift data and the actual workpiece status within the shift area.
1404	WORK ID. DATA CNT. LMT. OVER		An arithmetic error occurred for the current position pulse of WORK ID shift data.	Workpiece status error	Check the work ID shift data and the actual workpiece status within the shift area.
1405	WORK ID. SHIFT DATA POS LMT.		An arithmetic error occurred for the current travel length of WORK ID shift data.	Workpiece status error	Check the work ID shift data and the actual workpiece status within the shift area.
1406	START SHIFT DATA CNT. LMT. OVER		An arithmetic error occurred for the current position pulse of start shift data.	Workpiece status error	Check the start shift data and the actual workpiece status within the shift area.
1407	START SHIFT DATA POS LMT.		An arithmetic error occurred for the current travel length of start shift data.	Workpiece status error	Check the start shift data and the actual workpiece status within the shift area.
1420	SYSTEM ERROR (BENDING)				
1421	ENCODER ERROR (LNR SCALE)				
1422	CANNOT CHANGE ENCODER INPUT				
1437	PORT OPEN ERROR			Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1500	SAFETY CIRCUIT FAULT(SERVO I/O)			Circuit board failure (YPU unit)	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
1501	SVMX RELAY STICKING (SERVO I/O)			Circuit board failure (YPU unit)	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
1502	CONTACTOR STICKING (SERVO I/O)			Circuit board failure (YPU unit)	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
1503	SAFETY CIRCUIT IN FAULT(SV I/O)			Circuit board failure (YPU unit)	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1504	TUSON RELAY STICKING (SERVO I/O)			Circuit board failure (YPU unit)	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
1506	BROKEN CONTACTOR FUSE(SERVO I/O)			Circuit board failure (YPU unit)	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
1507	BROKEN S_ON FUSE(SERVO I/O)			Circuit board failure (YPU unit)	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
1508	SAFETY CIRCUIT WDT ERROR (SV I/O)			Circuit board failure (YPU unit)	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
1509	EXTERNAL WDT OVER(SERVO I/O)			Circuit board failure (YPU unit)	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
1510	EXTERNAL WDT BROKEN (SERVO I/O)			Circuit board failure (YPU unit)	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
1511	COMMUNICATIONERR (PLDs) (SERVO I/O)			Circuit board failure (YPU unit)	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
1512	POWER SUPPLY FAN ERROR (SERVO)			Connection failure	Check the power supply cable of the cooling fan in the YPS power unit.
				YPS module failure	Check the cooling fan in the YPS power unit is working. Replace the YPS power unit.
				Install failure	Check that the air inlet or outlet is not blocked.
1513	POWER SUPPLY OVERHEAT (SERVO)			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 YPS power unit.
				YPS module failure	Replace the YPS power unit.
1514	OVERHEAT (AMPLIFIER)			The temperature of amplifier rose.	Turn the power OFF then back ON after cooling the amplifier.
1515	SON_OUT RELAY STICKING (SERVO I/O)			Circuit board failure (YPU unit)	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
1516	BRRCER RELAY STICKING (SERVO I/O)			Circuit board failure (YPU unit)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1530	ABSOLUTE DATA ERROR (SERVO2)			Circuit board failure (YPU unit)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK
				Module failure (motor)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the motor.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1531	GATE ARRAY 1 ERROR (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the SERVOPACK
1532	GATE ARRAY 2 ERROR (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the SERVOPACK
1533	ABSOLUTE ENCODER ERROR (SERVO2)			Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				Noise interference	Check the noise source and take countermeasures to reduce the noise.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK
1534	GROUND FAULT (SERVO2)			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.
				Module failure (motor)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the motor.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1535	WATCHDOG DETECTOR ERROR (SERVO2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1536	CURRENT FB ERROR (U PHASE)(SV2)			Connection failure	Check the connection of motor power line.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1537	CURRENTFBERROR (V PHASE)(SV2)			Connection failure	Check the connection of motor power line.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1538	INCR ENCODER INIT PULSE ERR(SV2)			Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				Noise interference	Check the noise source and take countermeasures to reduce the noise.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1539	SERVO ON COMMAND INVALID (SERVO2)			Setting error	Replace the SERVOPACK.
1540	VIBRATION DETECT (SERVO2)			Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
1541	FC SERIAL ENCODER SUM ERROR(SV2)			Module failure (serial conversion unit)	Replace the serial conversion unit.
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1542	FC SERIAL ENCODER DATA ERR(SV2)			Module failure (serial conversion unit)	Replace the serial conversion unit.
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1543	MODULE ERROR (SERVO2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1544	FC SERIAL ENCODE SCALE ERR(SV2)			Module failure (serial conversion unit)	Replace the serial conversion unit.
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1545	FC SERIAL CONVERT COMM ERR(SV2)			Connection failure	Check the insertion and connection of the followings. · Serial conversion unit · Cable between SERVOPACKs.
				Noise interference	Check the noise source and take countermeasures to reduce the noise.
				Module failure (serial conversion unit)	Replace the serial conversion unit.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1546	COMMUNICATION SET ERR (ML2)(SV2)		The transmission cycle setting of MECHATROLINK communication is incorrect.	Setting error	Check the transmission cycle setting of MECHATROLINK communication.
1547	CURRENT FEEDBACK ERROR		•The data [XXX_] indicates the alarm contents. •2000:Error in current detection value •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.
				Module failure (amplifier)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the amplifier.
				Module failure (motor)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the motor.
1550	MEMORY ERROR (PARAMETER) (SERVO2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1551	PRIMARY CIRCUIT DETECT ERR (SV2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1552	PARAMETER ERROR (SERVO2)			Setting error	Check the parameter settings.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1553	COMBINATION ERROR (SERVO2)			Setting error	Compare the rated current of the SERVOPACK and the motor referring to each model, and check whether it is possible to apply by specifications.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1554	OVERCURRENT (SERVO2)			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).
				Module failure (motor)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the motor.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1555	ENCODER BACK-UP ERROR (SERVO2)			Voltage failure	Check the voltage of the encoder backup battery.
				Connection failure	Check the insertion and connection of the followings. · Encoder backup battery · Between encoders
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1556	DEFECTIVE ENCODER IN-DATA(SV2)			Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1557	DEFECTIVE ENCODER ABSO DATA(SV2)			Connection failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1558	ENCODER OVER SPEED (SERVO2)			Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1559	GATE ARRAY ERROR (SERVO2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1560	SYSTEM ERROR (SERVO2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1561	BROKEN PG LINE (A/B PHASE)(SV2)			Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Noise interference	Check the noise source and take countermeasures to reduce the noise.
				Module failure (motor)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the motor.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1562	BROKEN PG LINE (C PHASE)(SV2)			Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Noise interference	Check the noise source and take countermeasures to reduce the noise.
				Module failure (motor)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the motor.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1563	MULTITURN LIMIT SET ERROR(SV2)			Module failure (motor)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the motor.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1564	COMMUNICATION ERR (ENCODER)(SV2)			Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Noise interference	Check the noise source and take countermeasures to reduce the noise.
				Module failure (motor)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the motor.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1565	PARAMETER ERROR (ENCODER) (SERVO2)			Module failure (motor)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the motor.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1566	ECHOBACK ERROR (ENCODER) (SERVO2)			Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] · Cable between encoders · EAXA-CN508 [External axis] · Cable between encoders · EAXB-CN0534,535,536
				Noise interference	Check the noise source and take countermeasures to reduce the noise.
				Module failure (motor)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the motor.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1567	MULTITURN LIMIT NOT SAME (SERVO2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1568	OPTION NOT SPECIFIED (SERVO2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1569	OPTION TIMEOUT (SERVO2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1570	OPTION WDC ERROR (SERVO2)				
1571	COMMUNICATION WDT ERROR (SERVO2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1572	COMMUNICATION ERROR (SERVO2)			Connection failure	Check the connection of MECHATROLINK communication cable.
				Noise interference	Check the noise source and take countermeasures to reduce the noise.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1573	SERVOPACK BROKEN (SERVO2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1574	INITIAL ACCESS ERROR (SERVO2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1575	SERVOPACK WDC EROOR (SERVO2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1576	COMMAND NOT EXECUTE (SERVO2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1577	MAIN CIRCUIT ANSWER ERROR(SV2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1578	SERVO MOTOR DISCONNECTION (SV2)			Connection failure	Check the connection of motor power line.
				Module failure (motor)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the motor.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1579	SERVO MOTOR DISCONNECTION 2(SV2)			Connection failure	Check the connection of motor power line.
				Module failure (motor)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the motor.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1580	OPTION I/F ERROR (SERVO2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1581	NS600 ERROR (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the SERVOPACK.
1582	CURRENT DETECTION ERROR (SERVO2)			Connection failure	Check the connection of motor power line.
				Module failure (motor)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the motor.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1583	PHASE DETECTION ERROR (SERVO2)			Connection failure	Check the connection of Cable between encoders.
				Noise interference	Check the noise source and take countermeasures to reduce the noise.
				Module failure (motor)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the motor.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1584	POLE DETECTION ERROR (SERVO2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1585	MOTOR LOAD POSITION ERROR (SV2)			Connection failure	Check the connection of mechanical combination.
1586	EXCEEDED POSITION DATA (SERVO2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1587	SCALE PITCH SETTING ERROR(SV2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1588	DIVIDING RATIO SETTING ERROR(SV2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1589	ENCODER MODEL UNMATCH (SERVO2)			Module failure (encoder)	Check the parameter setting, and then if it is normal, replace the encoder.
1590	MC POWER SUPPLY WIRING ERR(SV2)			Connection failure	Check the connection of power supply of AC/DC.
				Regenerative resistor failure	Replace the regenerative resistor.
				Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1591	LINEAR MOTOR MAX SPEED SET(SV2)			Module failure (SERVOPACK)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1592	MONITOR PLD ERROR 1 (SERVO I/O)			Circuit board failure (YPU unit)	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
1593	MONITOR PLD ERROR 2 (SERVO I/O)			Circuit board failure (YPU unit)	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
1594	MONITOR PLD ERROR 3 (SERVO I/O)			Circuit board failure (YPU unit)	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
1610	SAFETY UNIT CPU SYNCHRO ERROR			Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA01-CN515 • YIF01-CN113 • NSU-CN02
1612	COMMUNICATION ERROR (SAFETY)	0	Communication status error	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA01-CN515 • YIF01-CN113 • NSU-CN02
				Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		1	Watchdog timer error	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA01-CN515 • YIF01-CN113 • NSU-CN02
				Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		2	JL0101 alarm	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA01-CN515 • YIF01-CN113 • NSU-CN02
				Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		3	Communication status error	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA01-CN515 • YIF01-CN113 • NSU-CN02
				Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		4	Data consistency error	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA01-CN515 • YIF01-CN113 • NSU-CN02
				Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	CRC error	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA01-CN515 • YIF01-CN113 • NSU-CN02
				Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1613	ENCODER COMM. ERR 1 (SAFETY)		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] • Cable between encoders • EAXA-CN508 • NSU-CN03A,03B [External axis] • Cable between encoders • EAXB-CN0534,535,536 • NSU-CN04A,04B,05A,05B,06A,06B
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1614	ENCODER COMM. ERR 2 (SAFETY)		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] • Cable between encoders • EAXA-CN508 • NSU-CN03A,03B [External axis] • Cable between encoders • EAXB-CN0534,535,536 • NSU-CN04A,04B,05A,05B,06A,06B
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1615	SYSTEM ERROR (SAFETY)			Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1616	SYSTEM ERROR 1 (SAFETY)			Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1618	ARITHMETIC ERROR (SAFETY)		Sub code: 0 to 7	Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1619	PARAMETER ERROR (SAFETY)	0	Motion range setting error	Setting error	Check the motion range of the manipulator.
1622	DEFECTIVE ENCODER (SAFETY)		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] • Cable between encoders • EAXA-CN508 • NSU-CN03A,03B [External axis] • Cable between encoders • EAXB-CN0534,535,536 • NSU-CN04A,04B,05A,05B,06A,06B
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1623	ENCODER CORR. NUM OVER (SAFETY)		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] • Cable between encoders • EAXA-CN508 • NSU-CN03A,03B [External axis] • Cable between encoders • EAXB-CN0534,535,536 • NSU-CN04A,04B,05A,05B,06A,06B
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1625	OPERATION AREA MON. ERR (AXIS)			Setting error	(1) Select [ROBOT] to open [ROBOT RANGE] screen. Set the item to "INVALID" and then cycle the power. (2)Move the manipulator into the specified range. (3) Select [ROBOT] to open [ROBOT RANGE] screen. Set the item to "VALID" and then cycle the power.
1628	STOPPING POS. MON. ERR (SAFETY)			Connection failure	(1)Confirm that CNGS1.0 is connected on the NSU. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1629	OPERATION AREA MON. ERR (ROBOT)			Setting error	(1)Select [ROBOT] to open [ROBOT RANGE] screen. Set the item to "INVALID" and then cycle the power. (2)Move the manipulator into the specified range. (3)Select [ROBOT] to open [ROBOT RANGE] screen. Set the item to "VALID" and then cycle the power. (4) If the alarm occurs again, confirm the settings of the tool number switch. The machine safety unit cannot be used with the tool number switch. When “1: SWITCHABLE” is set to “S2C431: TOOL NO. SWITCH”, change to use the tool interference No. 0, 1, 2 and 3 for to R1, 2, 3, and 4 respectively.
1630	MUTUAL DIAGNOSIS ERR (WDT)		1st bit: Regular processing execution Inconsistent 2nd bit: Check processing execution inconsistent	Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1631	MUTUAL DIAGNOSIS ERR (HW SETTING)			Setting error	• Confirm that the rotary switch on the NSU is set to [0].
				Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1632	MUTUAL DIAGNOSIS ERR (MONITOR)			Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1633	SIGNAL COMPARISON ERROR (SAFETY)	0	PPESP inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace CNFA/CNFB connectors and then turn the power ON again. (3)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		1	PPDSW inconsistent	Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		2	PBESP inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace CNFA/CNFB connectors and then turn the power ON again. (3)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		3	EXESP inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace CNFA connectors and then turn the power ON again. (3)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		4	EXDSW inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace CNFA connectors and then turn the power ON again. (3)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		5	SAFF inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace CNFA connectors and then turn the power ON again. (3)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				Unit failure(NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		6	FST inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace CNFA connectors and then turn the power ON again. (3)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		7	UNUSED_1 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		10	SON inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		11	BON inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		12	SVMAIN inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		13	MODE0 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		14	MODE1 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		15	SSP inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		16	WDGER_1 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		17	WDGER_2 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		20	SFRDY1 inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace CNFA connectors and then turn the power ON again.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		21	SFRFB1 inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace CNFA connectors and then turn the power ON again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		22	KMMB1 inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace CNFA connectors and then turn the power ON again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		23	UNUSED_3 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		24	SFRDY2 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		25	SFRFB2 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		26	KMMB2 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		27	UNUSED_2 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		30	SFRDY3 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		31	SFRFB3 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		32	KMMB3 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		33	UNUSED_5 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		34	SFRDY4 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		35	SFRFB4 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		36	KMMB4 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		37	UNUSED_4 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		40	GSIN0 inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace CNGS1/CNGS2 connectors and then turn the power ON again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		41	GSIN1 inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace CNGS1/CNGS2 connectors and then turn the power ON again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		42	SFSMDOFB0 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		43	SFSMDOFB1 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		44	SFSMDI0 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		45	SFSMDI1 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		46	SFUL1 Inconsistent	Setting error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the short plug connection (S1 to S8) and then turn the power ON again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		47	SFULFB inconsistent This may occur in accordance with other alarms.	Data error	Execute the trouble shooting for the accompanying alarm.
				Setting error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the short plug connection (S1 to S8) and then turn the power ON again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1634	FEEDBACK SIGNAL ERROR (SAFETY)	0	SFSMDO0 feedback inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of CNU/CNLO connectors and then turn the power ON again. (3)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		1	SFSMDO1 feedback inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of CNU/CNLO connectors and then turn the power ON again. (3)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		2	SFULO feedback inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of short plugs (S1 to S8) and CNU/CNLO connectors and then turn the power ON again. (3)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		3	SF1 feedback inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		4	SF2 feedback inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		5	SF3 feedback inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		6	SF4 feedback inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1635	LOW VOLTAGE (SAFETY)	1	Low voltage 5V error detected	Fuse failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the fuse of the NSU01Unit and then turn the power ON again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		2	Low voltage 3.3V error detected	Fuse failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the fuse of the NSU01Unit and then turn the power ON again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		3	Low voltage 1.5V error detected	Fuse failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the fuse of the NSU01Unit and then turn the power ON again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1636	OVER VOLTAGE (SAFETY)	1	Over voltage 5V error detected	Fuse failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the fuse of the NSU01Unit and then turn the power ON again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		2	Over voltage 3.3V error detected	Fuse failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the fuse of the NSU01Unit and then turn the power ON again.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		3	Over voltage 1.5V error detected	Fuse failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the fuse of the NSU01Unit and then turn the power ON again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1637	RAM DIAGNOSIS ERROR (SAFETY)	1	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		2	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		8	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		30	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1639	RAM AREA CONVERSION ERR (SAFETY)	1	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		10	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		11	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		12	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		20	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		21	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		22	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		40	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		41	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		42	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		50	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		51	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		52	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		60	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		61	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		62	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		70	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		71	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		80	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		81	RAM error detected	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1640	REAL TIME MONITOR ERROR (SAFETY)	1	Failed to initialize **real time** monitor	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		2	Failed to initialize **real time** monitor	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		3	Failed to initialize **real time** monitor	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		5	Process in the **real time** monitor (RTP) error occurred	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		6	Process in the **real time** monitor (NRTP) error occurred	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		7	Process in the **real time** monitor (NRTP) error occurred	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		9	Process in the **real time** monitor (RTP) error occurred	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		10	Process in the **real time** monitor (BGP) error occurred	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		11	Process in the **real time** monitor (NRTP) error occurred	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		13	Real time monitor error occurred	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1641	SAFETY OUTPUT FB ERROR (SAFETY)	0	NSU is broken.	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		1	Communication between NSU and YSU has been cut off.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection state of the following cable. • Communication cable between NSU(CNSF1 connector) and YSU(CN207 connector)
		2	Communication between NSU and YSU has been cut off.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection state of the following cable. • Communication cable between NSU(CNSF1 connector) and YSU(CN609 connector)
1642	WATCHDOG SIGNAL ERROR (SAFETY)	0	Watchdog error	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1643	SIGNAL SETTING ERROR (SAFETY)	0	Link signal error between NSU units	Setting error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the short plug connection (S1 to S8) and then turn the power ON again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection state of the following cable. • Communication cable between CNLO connector of NSU01 of the first robot and CNLI connector of NSU01 of the second robot.
		1	Link signal error between NSU units	Setting error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the short plug connection (S1 to S8) and then turn the power ON again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection state of the following cable. • Communication cable between CNLO connector of NSU01 of the first robot and CNLI connector of NSU01 of the second robot.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1644	24V LOW VOLTAGE (SAFETY)	1	Low voltage 5V error detected	Fuse failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the fuse and then turn the power ON again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		2	Low voltage 3.3V error detected	Fuse failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the fuse and then turn the power ON again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		3	Low voltage 1.5V error detected	Fuse failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the fuse and then turn the power ON again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
1645	CRC ERROR (SAFETY)			Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe. (3)If the alarm occurs again, replace the YIF01Unit. Save the CMOS.BIN before replace the unit to be safe.
1646	COMM.SETTING ERROR(SAFETY)		The switch number recorded in the NSU board is shown.	Setting error	(1)Confirm that the rotary switch on the NSU is set to 0. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1647	DETECT DISCONNECTION (NSU-YSU)	1	The communication between NSU and YSU is disconnected.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. • Communication cable between all NSU(CNSF1 connector) and YSU(CN207 connector)
		2	The communication between NSU and YSU is disconnected.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. • Communication cable between all NSU(CNSF1 connector) and YSU(CN207 connector)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		3	The communication between NSU and YSU is disconnected.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. • Communication cable between all NSU(CNSF1 connector) and YSU(CN207 connector)
		4	The communication between NSU and YSU is disconnected.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. • Communication cable between all NSU(CNSF1 connector) and YSU(CN207 connector)
1648	PENDANT MODE SIGNAL ERROR			Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. • Communication cable between all NSU board (CNMA connector) and YCU board (CNNSUO,CNYSUO) • Communication cable between YIF01 board (CN13) and EAXA board (CN515, CN516) • Communication cable between EAXA board (CN517) and YSU01 board (CN202) (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1650	FILE TRANSFER DATA ERROR (SV)	1	An error occurred when the last data was not received during the first data communication at execution of motion command.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, save the CMOS.BIN in maintenance mode, replace the following board. · EAXA board
				YCP01 board failure	Turn the power OFF then back ON. If the error occurs again, save the CMOS.BIN in maintenance mode, and then replace the YCP01 board. In this case, use the original CF card of the YCP01 board.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, save the CMOS.BIN in maintenance mode, replace the YIF board. and then load the CMOS.BIN previously saved in maintenance mode.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	An error occurred when the first data was not received during on the way data communication at execution of motion command.	EAXA board failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		3	An error occurred when the first data was not received during the last data communication at execution of motion command.	EAXA board failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
1651	FILE TRANSFER DATA SIZE ERR (SV)	1	The data size for the file transfer does not agree with the received buffer size.	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
		2	Buffer size over	EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
1652	DB ON ERROR (SERVO)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1653	BASE BLOCK SIGNAL ERROR(SERVO)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Module failure (amplifier)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the amplifier.
1654	PG POWER ON MULTIPLE REQ (SV)			Setting error	Check if the PICK instruction was executed again for the axis where executed the PICK instruction in the gun change system.
1655	CONVERTER COMMAND ERROR (SV)			Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SERVOPACK.
1656	AXIS ENDLESS INFO NOT GENERATED(SV)			Setting error	Check the JOB. (1)Turn the power OFF then back ON. (2)If the error occurs again, contact your Yaskawa representative.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1657	AXIS ENDLESS SPECIFIC. ERR(SV)	1	The home position detecting function was used for the axis for which the axis endless function was enabled. 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.
		2	The servo float function was used for the axis for which the axis endless function was enabled. 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.
		3	The encoders manufactured by Tamagawa Seiki Co., Ltd. was used for the axis for which the axis endless function was enabled. The encoders manufactured by Tamagawa Seiki Co., Ltd. cannot be used for the axis which the axis endless function was enabled.	Setting error	Disable the corresponding axis endless function.
		4	The general servo function was used for the axis for which the axis endless function was enabled. The general servo function cannot be used for the axis which the axis endless function was enabled.	Setting error	Disable the corresponding axis endless function.
1658	REDUCTION STOP SPECIFIC. ERR(SV)	1	The servo float function was used for the axis for which the deceleration stop function was enabled. The servo float function cannot be used for the axis which the deceleration stop function was enabled.	Setting error	Check the JOB.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	The specified axis speed control function was executed for the axis which the deceleration stop function was enabled. Specified axis speed control function cannot be used for the axis which the deceleration stop function was enabled.	Setting error	Check the JOB.
1659	MOTOR GUN CHANGE PG PWR ON ERR(SV)			Setting error	Check if the PICK instruction was executed again for the axis where executed the PICK instruction in the gun change system.
1660	MOTOR GUN CHANGE SV ON ERR(SV)			Setting error	Check if the PICK instruction was executed again for the axis where executed the PICK instruction in the gun change system.
1661	MOTOR GUN COND. FILE NO. ERR(SV)			Setting error	Check the JOB.
				File setting error	Check the gun condition file.
1662	MOTOR GUN PRESS FILE NO. ERR(SV)			Setting error	Check the JOB.
				File setting error	Check the gun condition file.
1663	WRONG MOTOR GUN PRESS AXIS (SV)			Setting error	Check the JOB.
				File setting error	Check the gun condition file.
1664	MICRO PRG EXECUTE TIME OVER(SV)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
1665	MICRO PROGRAM SYNC. ERROR (SV)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
1666	FILE RECEIVE INCOMPLETE (SERVO)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
1667	RESOLUTION CONVERSE CONST ERR(SV)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
1668	CANNOT GENERATE GENERAL CMD (SV)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1669	GENERAL SERVO CMD CODE ERR (SV)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
1670	GENERAL SERVO SETTING ERROR (SV)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
1671	GENERAL SV ALARM CODE ERROR (SV)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
1672	GRP CHANGE PG POWER ON ERR (SV)		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the JOB.
1673	GRP CHANGE SERVO ON ERROR (SV)		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the JOB.
1674	CTRL LAW SWITCHING ORDER ERR (SV)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
1675	BASE BLOCK READ SIGNAL ERR (SV)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
1676	BASE BLOCK WRITE SIGNAL ERR (SV)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
1677	U.PROG. BB READ SIG INCONSIST(SV)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
1678	MOTOR CMD POSITION ERROR (SV)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
1679	EXTERNAL BRAKE FUSE BROWN(SV)		The fuse is blown in brake unit.	YBK board failure	Replace the YBK01 fuse.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the external brake connection if there is a ground fault or short circuit. (3)If this alarm occurs in conjunction with AL-1681 BRAKE POWER ERROR(SV), check the brake connection if there is a ground fault or short circuit.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1680	GENERAL I/O FUSE BROWN(SV)			EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replace the board to be safe.
1681	BRAKE POWER ERROR(SV)		An error occurred in the power supply in the brake unit.	YBK board failure	Check the power source of YBK01, and then if no fault is found, replace the brake unit.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the brake connection if there is a ground fault or short circuit.
1682	EXTERNAL BRAKE POWER ERROR(SV)		An error occurred in the external axis brake power supply for brake unit.	YBK board failure	Check the external axis brake of YBK01 in the power source, and then if no fault is found, replace the brake unit.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the external brake connection if there is a ground fault or short circuit. (3)If this alarm occurs in conjunction with AL-1681 BRAKE POWER ERROR(SV), check the brake connection if there is a ground fault or short circuit.
1683	DC 24V POWER SUPPLY FAILURE(SV)		An error was detected in the voltage value of the YPS power.	YPS power supply failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following unit. ·YPS unit
				Connection failure	(1)Turn the power OFF then back ON. (2)If this alarm occurs in conjunction with AL-1681 BRAKE POWER ERROR(SV), check the brake connection if there is a ground fault or short circuit.
1684	INSTANT POWER FAILURE (TRQ)(SV)		The instant power failure occurred and then the torque was saturated.	Voltage failure	Check if the primary power supply voltage is dropping.
				Power failure	Check if the instant power failure has occurred.
1685	INSTANT POWER FAILURE (TIME)(SV)		The instant power failure occurred for longer than the certain time period.	Voltage failure	Check if the primary power supply voltage is dropping.
				Power failure	Check if the instant power failure has occurred.
1686	POS.DEVITATION SATURATING ERR(SV)			Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
				Interference error	Remove interference of the manipulator.
				Connection failure	Check the connection of motor power line.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replace the board to be safe.
				Module failure (amplifier)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the amplifier.
				Module failure (motor)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the amplifier.
1687	COORDINATED STOP FUNC. DISABLE			Setting error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1692	PG POWER FUSE BLOWN (SV)			EAXA board failure	Replace the EAXA01/EAXA02 board fuse (F1).
1693	UNDEFINED MOTOR GUN ARM CONTROL		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. Please complete the setting of GUN ARM CONTROL as the following operations. 1. start the system in maintenance mode. 2. change the security to management mode. 3. select [SYSTEM] ->[SETUP] ->[OPTION FUNCTION] ->[GUN ARM CONTROL]. 4. change the mode to PLAYBACK, then push [EXECUTE]. 5. set the [INERTIA] and [FREQ]. 6. select [ENABLE], after the setting the [INERTIA] and [FREQ].
1800	M-SAFETY SYSTEM ERROR (CPU1)	1	BOARD ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		2	UNIT ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		3	MODE SETTING ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		4	TEACH LOCK ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		5	Read Signal ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		6	Write Signal ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		7	WATCH DOG TIMEOUT	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		8	WATCH DOG SELF CHECK ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		9	CPU POWER ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		10	CONTACTOR OUTPUT SIGNAL ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		11	CONTACTOR FEEDBACK OUTPUT SIGNAL ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		12	COMMUNICATION ASIC Interrupt Non-end	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		13	Information of the connected the EAXA board is different between the CPU1 and the CPU2 of the YSU unit.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		14	Information of the connected the EAXA board is different between the CPU1 and the CPU2 of the YSU unit in coordinated control system.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		15	COMMUNICATION ASIC INIT ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		16	Interrupt COMMUNICATION ASIC ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		17	Link Signal Setting ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		18	Link Signal Setting ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		19	COMMUNICATION ASIC Speed Mode ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		20	Safety Signal Self Check ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		21	Interrupt Check Error 1	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		22	Interrupt Check Error 2	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		30	Function Check Error 0	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		31	Function Check Error 1	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		32	Function Check Error 2	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		33	Function Check Error 3	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		34	Function Check Error 4	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		35	Function Check Error 5	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		36	Function Check Error 6	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		37	Function Check Error 7	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		38	Function Check Error 8	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		39	Function Check Error 9	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		40	Function Check Error 10	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		41	Function Check Error 11	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		100	Function Check Error 100	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
1801	SV M-SAFETY BROKEN LINE(CPU1)	0	The communication between the EAXA board and the YSU unit are disconnected.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
1802	M-SAFETY INITIALIZE ERROR(CPU1)	0	Failed to initialize the CPU1 when the control power turned ON.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		4	Rotary switch setting error 1.	YSU unit failure	(1)Turn the power OFF then back ON. (2)Confirm the setting of the rotary switch of the YSU unit. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		5	Rotary switch setting error 2.	YSU unit failure	(1)Turn the power OFF then back ON. (2)Confirm the setting of the rotary switch of the YSU unit. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
1803	M-SAFETY CPU ERROR(CPU1)	0	Watch dog time out occurred in the CPU1 of the YSU unit.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		2	Watch dog time out occurred in the CPU1 in mutual monitoring of the CPU1 and the CPU2.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		3	CPU monitor error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
1804		0	When the controller power turned ON, CPU1 detected an error in the watchdog detection circuit.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
	M-SAFETY SELF CHECK ERROR (CPU1)	10	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		11	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		12	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		13	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		14	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		15	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		16	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		17	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		18	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		19	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		20	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		21	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		22	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		23	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		24	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		25	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		26	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		27	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		28	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		29	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		30	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		31	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		32	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		33	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		40	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		41	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		42	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		43	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		50	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		51	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		52	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		53	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		54	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		55	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		56	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		57	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		58	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		59	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		70	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		71	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		72	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		73	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		74	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		75	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		76	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		77	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		78	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		79	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		91	Stack error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		92	Stack error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
1805	SV M-SAFETY NO COMMUNICATE (CPU1)	1	The communication error (loop back error) occurred in the EAXA board of rotary switch was set to "0".	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.
		2	The communication error (loop back error) occurred in the EAXA board of rotary switch was set to "1".	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.
		3	The communication error (loop back error) occurred in the EAXA board of rotary switch was set to "2".	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		4	The communication error (loop back error) occurred in the EAXA board of rotary switch was set to "3".	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.
		5	The communication error (loop back error) occurred in the EAXA board of rotary switch was set to "4".	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		6	The communication error (loop back error) occurred in the EAXA board of rotary switch was set to "5".	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.
		7	The communication error (loop back error) occurred in the EAXA board of rotary switch was set to "6".	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		8	The communication error (loop back error) occurred in the EAXA board of rotary switch was set to "7".	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.
		11	The communication error occurred between the EAXA board and the YSU unit.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		12	The communication error occurred between the EAXA board and the YSU unit.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		13	The communication error occurred between the EAXA board and the YSU unit.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		14	The communication control IC of YSU unit detected the error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
1806	SV M-SAFETY CRC ERROR(CPU1)	0		Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. ·The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.
1807	M-SAFETY SLAVE TIME OUT(CPU1)	1	There is the EAXA board for display of the 7 segment LED(DS1) of EAXA board is not "d" (on-line process).	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.
		2	There is the EAXA board for display of the 7 segment LED(DS1) of EAXA board is not "d" (on-line process).	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.
1808	M-SAFETY SLAVE UNDEFINED (CPU1)	0		Setting error	Correct the set value in maintenance mode.
1809	M-SAFETY POWER VOLT ERROR(CPU2)	0000_1100	CPU1 detected the 3.3V over voltage in the CPU2.	Blown fuse	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. 7 segment LED (DS1 orDS2) of YSU unit is turned OFF: Replace the fuse (F3/F4) in YSU unit board.
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the fuse, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		0000_1010	CPU1 detected the 3.3V low voltage in the CPU2.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		0000_0110	CPU1 detected 24V power supply voltage error in the CPU2.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following cables. · Cable of the YSU unit(CN200 connector) · Cable of the YPS unit(CN154 connector)
				Loose fuse	(1)Turn the power OFF then back ON. (2)If the alarm occurred again, check if the fuse(F1/F2) is not removed. Fuse is located on the front of the YSU unit.
				Blown fuse	(1)Turn the power OFF then back ON. (2)If the alarm occurred again after confirmation of the fuse removal, replace the fuse (F1/F2) of the YSU unit. Fuse is located on the front of the YSU unit.
				Ground fault or a short circuit	(1)Turn the power OFF then back ON. (2)If the alarm occurs again after replacement the fuse, check the following content. · Check whether neither the short circuit nor the ground fault have occurred in the I/O cables from the external device when other alarms that show 24V power supply error occurred at the same time.
1810	M-SAFETY UNIT LINK ERROR(CPU1)	1	The unconnection with other YSU units was detected.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. ·Check the connection of cable connected with other YSU unit. (3)After confirmation of the connection, and then if the alarm occurred again, replace the communication cable.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	The unconnection with other YSU units was detected.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. · Check the connection of cable connected with other YSU unit. (3)After confirmation of the connection, and then if the alarm occurred again, replace the communication cable.
1811	M-SAFETY SYSTEM ERROR (CPU2)	1	BOARD ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		2	UNIT ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		3	MODE SETTING ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		4	TEACH LOCK ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		5	Read Signal ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		6	Write Signal ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		7	WATCH DOG TIMEOUT	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		8	WATCH DOG SELF CHECK ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		9	CPU POWER ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		10	CONTACTOR OUTPUT SIGNAL ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		11	CONTACTOR FEEDBACK OUTPUT SIGNAL ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		12	COMMUNICATION ASIC Interrupt Non-end	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		13	Information of the connected the EAXA board is different between the CPU1 and the CPU2 of the YSU unit.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		14	Information of the connected the EAXA board is different between the CPU1 and the CPU2 of the YSU unit in coordinated control system.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		15	COMMUNICATION ASIC INIT ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		16	Interrupt COMMUNICATION ASIC ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		17	Link Signal Setting ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		18	Link Signal Setting ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		19	JL098 Speed Mode ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		20	Safety Signal Self Check ERROR	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		21	Interrupt Check Error 1	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		22	Interrupt Check Error 2	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		30	Function Check Error 0	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		31	Function Check Error 1	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		32	Function Check Error 2	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		33	Function Check Error 3	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		34	Function Check Error 4	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		35	Function Check Error 5	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		36	Function Check Error 6	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		37	Function Check Error 7	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		38	Function Check Error 8	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		39	Function Check Error 9	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		40	Function Check Error 10	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		41	Function Check Error 11	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		100	Function Check Error 100	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1812	SV M-SAFETY BROKEN LINE(CPU2)	0	The communication between the EAXA board and the YSU unit are disconnected.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
1813	M-SAFETY INITIALIZE ERROR(CPU2)		Failed to initialize the CPU2 when the control power turned ON.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
1814	M-SAFETY CPU ERROR(CPU2)	0	Watch dog time out occurred in the CPU2 of the YSU unit.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		2	An error occurred in the CPU2 in mutual monitoring of the CPU1 and the CPU2.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		3	CPU monitor error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
1815	M-SAFETY SELF CHECK ERROR (CPU2)	0	When the controller power turned ON, CPU2 detected an error in the watchdog detection circuit.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		10	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		11	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		12	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		13	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		14	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		15	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		16	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		17	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		18	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		19	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		20	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		21	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		22	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		23	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		24	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		25	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		26	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		27	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		28	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		29	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		30	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		31	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		32	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		33	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		40	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		41	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		42	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		43	Safety signal self check error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		50	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		51	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		52	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		53	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		54	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		55	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		56	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		57	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		58	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		59	RAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		70	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		71	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		72	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		73	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		74	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		75	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		76	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		77	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		78	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		79	DualPortRAM error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		91	Stack error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		92	Stack error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1816	SV M-SAFETY NO COMMUNICATE (CPU2)	1	The communication error (loop back error) occurred in the EAXA board of rotary switch was set to "0".	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.
		2	The communication error (loop back error) occurred in the EAXA board of rotary switch was set to "1".	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		3	The communication error (loop back error) occurred in the EAXA board of rotary switch was set to "2".	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.
		4	The communication error (loop back error) occurred in the EAXA board of rotary switch was set to "3".	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		5	The communication error (loop back error) occurred in the EAXA board of rotary switch was set to "4".	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.
		6	The communication error (loop back error) occurred in the EAXA board of rotary switch was set to "5".	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		7	The communication error (loop back error) occurred in the EAXA board of rotary switch was set to "6".	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.
		8	The communication error (loop back error) occurred in the EAXA board of rotary switch was set to "7".	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.
		11	The communication error occurred between the EAXA board and the YSU unit.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		12	The communication error occurred between the EAXA board and the YSU unit.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		13	The communication error occurred between the EAXA board and the YSU unit.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		14	The communication control IC of YSU unit detected the error.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
1817	SV M-SAFETY CRC ERROR(CPU2)	0		Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. ·The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.
1818	M-SAFETY SLAVE TIME OUT(CPU2)	1	There is the EAXA board for display of the 7 segment LED(DS1) of EAXA board is not "d" (on-line process).	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. ·The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	There is the EAXA board for display of the 7 segment LED(DS1) of EAXA board is not "d" (on-line process).	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following communication cables. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector) (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable below. · The communication cable between EAXA board (CN518 connector) and YSU unit (CN202 connector)
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the communication cable, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
				EAXA board failure	(1)Turn the power OFF then back ON. (2)After replacement the YSU unit, and then if the alarm occurred again, replace the EAXA board. Save the CMOS.BIN before replace the EAXA board to be safe.
1819	M-SAFETY SLAVE UNDEFINED (CPU2)	0		Setting error	Correct the set value in maintenance mode.
1820	M-SAFETY POWER VOLT ERROR(CPU1)	0000_1101	CPU2 detected the 3.3V over voltage in the CPU1.	Blown fuse	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. 7 segment LED (DS1 orDS2) of YSU unit is turned OFF: Replace the fuse(F3/F4) in YSU unit board.
				YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the fuse, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		0000_1011	CPU2 detected the 3.3V low voltage in the CPU1.	YSU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
		0000_0111	CPU2 detected 24V power supply voltage error in the CPU1.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following cables. · Cable of the YSU unit(CN200 connector) · Cable of the YPS unit(CN154 connector)
				Loose fuse	(1)Turn the power OFF then back ON. (2)If the alarm occurred again, check if the fuse(F1/F2) is not removed. Fuse is located on the front of the YSU unit.
				Blown fuse	(1)Turn the power OFF then back ON. (2)If the alarm occurred again after confirmation of the fuse removal, replace the fuse (F1/F2) of the YSU unit. Fuse is located on the front of the YSU unit.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Ground fault or a short circuit	(1)Turn the power OFF then back ON. (2)If the alarm occurs again after replacement the fuse, check the following content. · Check whether neither the short circuit nor the ground fault have happened because of the I/O cables from the external device when other alarms that show 24V power supply error occurred at the same time.
		0000_1110	CPU2 detected the 5V low voltage in the CPU1.	YSU unit failure	(1)Turn the power OFF then back ON. (2)After replacement the fuse, and then if the alarm occurred again, replace the YSU unit. Save the CMOS.BIN before replace the YSU unit to be safe.
1821	M-SAFETY UNIT LINK ERROR (CPU2)	1	The unconnection with other YSU units was detected.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. ·Check the connection of cable connected with other YSU unit. (3)After confirmation of the connection, and then if the alarm occurred again, replace the communication cable.
		2	The unconnection with other YSU units was detected.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. ·Check the connection of cable connected with other YSU unit. (3)After confirmation of the connection, and then if the alarm occurred again, replace the communication cable.
1900	SYSTEM ERROR(RSC1)		Sub Code Internal control error in software	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1901	RSC1 INITIALIZE ERROR		Sub Code 1 to 7: Internal control error in software	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. · Connected state of Ethernet cable · Connected state of USB cable (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable.
				Setting error	Confirm the setting of parameter.
1902	RSC1 INITIALIZE ERROR(RSC#1)		Sub Code 8 to 9: Internal control error in software	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. · Connected state of Ethernet cable (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable.
				Setting error	Confirm the setting of parameter.
1903	RSC1 INITIALIZE ERROR(RSC#2)		Sub Code 8 to 9: Internal control error in software	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. · Connected state of Ethernet cable (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable.
				Setting error	Confirm the setting of parameter.
1904	RSC1 INITIALIZE ERROR(RSC#3)		Sub Code 8 to 9: Internal control error in software	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. · Connected state of Ethernet cable (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable.
				Setting error	Confirm the setting of parameter.
1905	RSC1 INITIALIZE ERROR(RSC#4)		Sub Code 8 to 9: Internal control error in software	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. · Connected state of Ethernet cable (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable.
				Setting error	Confirm the setting of parameter.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1906	RSC1 INITIALIZE ERROR(RSC#5)		Sub Code 8 to 9: Internal control error in software	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. · Connected state of Ethernet cable (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable.
				Setting error	Confirm the setting of parameter.
1907	RSC1 INITIALIZE ERROR(RSC#6)		Sub Code 8 to 9: Internal control error in software	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. · Connected state of Ethernet cable (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable.
				Setting error	Confirm the setting of parameter.
1908	RSC1 INITIALIZE ERROR(RSC#7)		Sub Code 8 to 9: Internal control error in software	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. · Connected state of Ethernet cable (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable.
				Setting error	Confirm the setting of parameter.
1909	RSC1 INITIALIZE ERROR(RSC#8)		Sub Code 8 to 9: Internal control error in software	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. · Connected state of Ethernet cable (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Setting error	Confirm the setting of parameter.
1910	RSC1 UNIT NUMBER UNMATCH		Sub Code The number of units the controller detected.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. · Connected state of USB cable (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable.
1911	ROBOT NO. ERROR		Sub Code The RSC1 unit number where error occurred.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. · Connected state of USB cable (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable.
1912	AXIS NUMBER ERROR		The RSC1 unit number where error occurred.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. · Connected state of USB cable (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable.
1913	FIRST DATA SEND ERROR(USB)		The RSC1 unit number where error occurred.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. · Connected state of USB cable (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable.
1914	COMMUNICATION ERROR(USB)		The RSC1 unit number where error occurred.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the followings. · Connected state of USB cable (3)After confirmation of the communication cable connection, and then if the alarm occurred again, replace the communication cable.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4000	MEMORY ERROR (TOOL FILE)		Sub Code: Tool number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4001	MEMORY ERROR (USER COORD FILE)		Sub Code: User coordinate number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4002	MEMORY ERROR (SV MON SIGNAL FILE)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4003	MEMORY ERROR (WEAVING FILE)		Sub Code: Page number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4004	MEMORY ERROR (HOME POS FILE)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4005	MEMORY ERROR (SECOND HOME POS)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4006	MEMORY ERROR (POWER SOURCE COND)		Sub Code: Page number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4007	MEMORY ERR (ARC START COND FILE)		Sub Code: Page number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4008	MEMORY ERROR (ARC END COND FILE)		Sub Code: Page number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4009	MEMORY ERROR (ARC AUX COND FILE)		Sub Code: Page number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4010	MEMORY ERROR (COM-ARC3 COND FILE)		Sub Code: Page number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4012	MEMORY ERROR (LINK SERVOFLOAT)		Sub Code: Condition file number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4013	MEMORY ERROR (LINEAR SERVOFLOAT)		Sub Code: Condition file number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4014	MEMORY ERROR (ROBOT CALIB FILE)		Sub Code: Page number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4017	MEMORY ERROR (POWER SRC USER-DEF)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4018	MEMORY ERR(LADDER PRG FILE)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4019	MEMORY ERROR (CUTTING COND FILE)		Sub Code: Page number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4020	MEMORY ERROR (OPERATION ORIGIN)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4021	MEMORY ERROR (CONVEYOR COND FILE)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4022	MEMORY ERROR (PAINT SPECIAL FILE)		Sub Code: Page number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4023	MEMORY ERROR (PAINT COND FILE)		Sub Code: Page number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4024	MEMORY ERR(WRIST WEAV AMP FILE)	1		Data error	(1)Reset the alarm. (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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4025	MEMORY ERROR (INTERRUPT JOB FILE)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4028	MEMORY ERR(SENSOR MON COND FILE)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4030	MEMORY ERR(PRESS COND DATA FILE)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4031	MEMORY ERROR (SPOT GUN COND FILE)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4032	MEMORY ERROR (SPOT WELDER COND)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4033	MEMORY ERROR (GUN PRESSURE FILE)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4034	MEMORY ERR(ANTICIPATION OT FILE)			Data error	(1)Reset the alarm. (2)If the alarm occurs again, initialize the anticipation outputs file in maintenance mode, and then load the anticipation outputs file saved in the external memory device.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4035	MEMORY ERR(ANTICIPATION OG FILE)			Data error	(1)Reset the alarm. (2)If the alarm occurs again, initialize the anticipation outputs file in maintenance mode, and then load the anticipation outputs file saved in the external memory device.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4036	MEMORY ERROR (WEARING FILE)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4037	MEMORY ERROR (STROKE POSITION)		Sub Code: File number	Data error	(1)Reset the alarm. (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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4038	MEMORY ERROR (PRESSURE FILE)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4039	MEMORY ERROR (FORM CUT FILE)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4040	MEMORY ERROR (SHOCK LEVEL FILE)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4041	MEMORY ERROR (SPOT IO ALLOCTE FL)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4042	MEMORY ERROR (VISION FILE)		Sub Code: Page number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4043	MEMORY ERROR (VISION CALIBRATION)		Sub Code: Page number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4044	MEMORY ERROR (WELD PULSE COND)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4045	MEMORY ERROR (WELD PULSE SELECT)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4046	MEMORY ERR(CONVEYOR CALIB FILE)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4048	MEMORY ERROR (SERVO S-GUN FILE)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4049	MEMORY ERROR (PASTE QUAN.COMP FL)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4050	MEMORY ERR(AXIS I/O ALLOC FILE)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4051	MEMORY ERR(GUN COND. AUX. FILE)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4052	MEMORY ERROR (TOOL INTERFERENCE)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4053	MEMORY ERROR (PAINT SYS CONFIG.)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4054	MEMORY ERROR (PAINTING SPECIAL)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4055	MEMORY ERROR (CCV-PAINT TABLE)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4056	MEMORY ERROR (PLUG VOLUME FILE)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4057	MEMORY ERROR (EVB GUN COND)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4058	MEMORY ERROR (EVB TURBIN COND)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4059	MEMORY ERROR (EVB PAINT COND)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4060	MEMORY ERROR (CLEARANCE FILE)		Sub Code: File number	Data error	(1)Reset the alarm. (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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4061	MEMORY ERROR (GAUGE SENSOR FILE)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4062	MEMORY ERROR (LNR SCALE FILE)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4063	MEMORY ERR (CONVEYOR COND SUPP.)		Sub Code: File number	Data error	(1)Reset the alarm. (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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4064	MEMORY ERR (WEAV SYNC WELD FILE)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4065	MEMORY ERROR (I/F PANEL FILE)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4069	MEMORY ERR (PALLETIZE COND FILE)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4070	MEMORY ERROR (LASER TRACKING START FILE)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4071	MEMORY ERROR (LASER TRACKING END FILE)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4072	MEMORY ERROR (LASER TRACKING TRACK START FILE)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4073	MEMORY ERROR (LASER TRACKING SET FILE)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4074	MEMORY ERROR (LASER TRACKING TRACK SET FILE)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4075	MEMORY ERROR (CONDITION FILE OF CORRESPONDING TO LASER TRACKING GAP)			Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4076	MEMORY ERROR (MEMORY PLAY FILE FOR LASER TRACKING DC)			Data error	(1)Reset the alarm. (2)If the alarm occurs again, initialize the memory play file for laser tracking DC in maintenance mode, and then load the memory play file for laser tracking DC saved in the external memory device.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4080	MEMORY ERR (MUTUAL WAIT SET FILE)		An error was detected at memory check. The memory for the mutual wait set file is damaged.	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4081	MEMORY ERR (INTERF. PREDICT FILE)		An error was detected at memory check. The memory for the interference predict file is damaged.	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4082	INTERF. PREDICT DETECT		DX100 has detected the possibility of interference between manipulators.	Operation mistake or teaching mistake	(1)Reset the alarm. (2)Pull the manipulators away each other. (3)If this alarm occurred during test run or playback operation, change the teaching points.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4083	INTERF. PREDICT COMM ERROR		A communication error has been detected in the interference predict function. SubCode 0000_0000_0000_0001:No response for the interference check start request was returned from the interference predict server. 0000_0000_0000_0010:DX100 received an error response from the interference predict server. 0000_0000_0000_0100:No response for the interference status request was returned from the interference predict server. 0000_0000_0001_0000:No response for the interference check activated notification was returned from the interference predict server. 0000_0011_0000_0000: Parameter transfer with the interference prediction server did not end correctly. 0000_0011_0000_0010:DX100 received an communication error notification from the interference predict server. 0001_0000_0000_0001:No response for the interference check start request was returned from the intererence predict server. 0001_0000_0000_0010:No response for the current position acquisition request was returned from the interference predict server. 0001_0000_0000_0011:DX100 received an error response for the interference check start request from the interference predict server.	Connection failure	(1)Reset the alarm. (2)Check the connection between interference predict server and DX100.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				HUB failure	(1)Reset the alarm. (2)Check the connection between interference predict server and DX100.
				Setting error	(1)Reset the alarm. (2)Check each network setting for the robot controller and the interference predict server.
4084	ROBOT SYNC. ERROR		SubCode 0000_0000_0000_0001:No response was returned from the mutual wait target. 0000_0000_0000_0010:An error occurred in the communication with the mutual wait target during the execution of FN591. 0000_0000_0000_0110:The setting of the mutual wait target was changed during the execution of FN591. 0000_0000_0001_0000:The mutual wait manipulator No. of the FN591 is abnormal. 0000_0000_0010_0000:FN591 was doubly executed. 0000_0000_0101_0000:An illegal notification was received from mutual wait target. 0000_0000_0111_0000:FN591 was executed for the disconnected robot.	Connection failure	SubCode 0000_0000_0000_0001 0000_0000_0000_0010 (1)Reset the alarm. (2)Check the communication connection with the mutual wait target.
				HUB failure	SubCode 0000_0000_0000_0001 0000_0000_0000_0010 (1)Reset the alarm. (2)Check the communication connection with the mutual wait target.
				Setting error	SubCode 0000_0000_0000_0001 (1)Reset the alarm. (2)Check the contents of the mutual wait setting file. (3)Check the network setting of the mutual wait target.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Setting error	SubCode: 0000_0000_0000_0110 (1)Reset the alarm. (2)During the execution of the FN591, check whether mutual waiting function setting change and isolation (specific input signal # 40563 = ON) are not performed.
				Setting error	SubCode 0000_0000_0001_0000 (1)Reset the alarm. (2)Check the mutual wait manipulator No. of the FN591.
				Setting error	SubCode 0000_0000_0010_0000 (1)Reset the alarm. (2)Correct the job so that the FN591 will not be executed at the same time in multiple task job. (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 0000_0000_0101_0000 (1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN, and then contact your YASKAWA representative about occurrence status (operating procedure).
				Setting error	SubCode 0000_0000_0111_0000 (1)Reset the alarm. (2)Make sure that the FN591 is not executed at the robot controller during isolation (dedicated input signal # 40563 = ON).
4085	MEMORY ERR (INTERF. HISTORY FILE)		An error was detected at memory check. The memory for the interference history file is damaged.	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4099	DC 24V POWER SUPPLY FAILURE(YPS)		An error was detected in the voltage value of the YPS power.	YPS power supply failure	(1)Reset the alarm. (2)If the alarm occurs again, turn the power OFF then back ON. (3)If the alarm occurs again, replace the following unit. ·YPS unit
				Connection failure	If this alarm occurs in conjunction with AL-1681 BRAKE POWER ERROR(SV), check the brake connection if there is a ground fault or short circuit.
4100	OVERRUN IN ROBOT AXIS	1	Sub Code 0001:OT (Robot)	Connection failure	(1)Reset the alarm (2) If the alarm occurs again, check the followings. ·Select "OVERRUN & S-SENSOR" from "ROBOT" menu to display the OVERRUN & S-SENSOR screen. The alarm can be released on this screen. (3)After above operation implementation, if the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·YPU unit CN203 ·EAXA board CN512
				YSU unit board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replacing the board to be safe.
				Overrun limit switch released	Overrun limit switch has been activated. Select "OVERRUN & S-SENSOR" from "ROBOT" menu to display the OVERRUN & S-SENSOR screen. The alarm can be released on this screen.
				EAXA board failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replacing the board to be safe.
4101	OVERRUN IN EXTERNAL AXIS		Sub Code 0010:OT2 (External axis) 0100:OT3 (External axis) 1000:OT4 (External axis)	Connection failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·YPU unit ·EAXA board CN512
				YSU unit board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replacing the board to be safe.
				Overrun limit switch released	Overrun limit switch has been activated. Select "OVERRUN & S-SENSOR" from "ROBOT" menu to display the OVERRUN & S-SENSOR screen. The alarm can be released on this screen.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replacing the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4102	SYSTEM DATA HAS BEEN CHANGED			System data changed	(1)Reset the alarm. (2)Turn the power OFF then back ON before turning ON the servo power supply.
4103	PARALLEL START INSTRUCTION ERROR	1	Sub task being executed: 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)Check the following settings. ·The subtask is completed by the PWAIT instruction.
		2	Group axis being used: The job operated by another sub task uses the same group axis.	Setting error	Check the following settings. ·The job to be started ·The execution timing for start command
		3	Multiple start of same job: The job that was tried to be started was executed by another sub task.	Setting error	Check the following settings. ·The same job is not used in the another task
		4	Unregistered master job: Although the master job was not registered, an attempt was made to execute PSTART SUB (job name omitted).	Setting error	Check the following settings. ·The master job of the subtask is registered
		5	Synchronization instruction error: When restarted by PSTART, synchronization instruction status of the sub task under interruption was different from the status to restart.	Setting error	Check the following settings. ·The job to be started ·The execution timing for start command
		6	Stopped by an alarm: An attempt was made to start the sub task which is stopped by an alarm.	Setting error	Check the following settings. ·Alarm occurrence status
		7	Synchronization task specification of SYNC instruction omit error	Setting error	Check the following settings. ·Synchronization task specification of SYNC instruction
		8	The task is specified by synchronization task of SYNC instruction.	Setting error	Check the following settings. ·Synchronization task specification of SYNC instruction
		9	I/O jog being executed	Setting error	Check the following settings. ·I/O jog executing status Complete the I/O jog executing status, and then restart.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		10	Separate group axis being used	Setting error	Check the following settings. ·Usage status of separation use axis Complete the use of separation use axis, and then restart.
		11	The servo power supply is OFF.	Setting error	Check the following settings. ·Servo power Turn ON servo power.
		12	Twin synchronous task ID error	Setting error	Check the following settings. ·Twin synchronous task specification of SYNC instruction
		16	PSTART instruction is the old specification.	Setting error	Check the following settings. ·The specifications of PSTART instruction Register the PSTART instruction as new specification.
		17	PWAIT instruction is the old specification.	Setting error	Check the following settings. ·The specifications of PWAIT instruction Register the PWAIT instruction as new specification.
4104	WRONG EXECUTION OF LOAD INST		Sub Code1 to 245: Signifies the data transmission error.	Setting error	* Refer to the instruction manual for Data Transmission Function for details.
4105	WRONG EXECUTION OF SAVE INST		Sub Code1 to 245: Signifies the data transmission error.	Setting error	* Refer to the instruction manual for Data Transmission Function for details.
4106	WRONG EXECUTION OF DELETE INST		Sub Code1 to 245: Signifies the data transmission error.	Setting error	* Refer to the instruction manual for Data Transmission Function for details.
4107	OUT OF RANGE (ABSO DATA)			Setting error	Check the following settings. ·Move the manipulator or station to the zero position by the axis operation and check the home position alignment marks (the arrow).
4109	DC 24V POWER SUPPLY FAILURE(I/O)		0000_0001: Detector circuit error. 0000_0010: Fuse blown (YIU unit) 0000_0011: External 24V power supply error.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. Check the insertion and connection of the followings. ·Fuse (blown) of YIU unit ·The communications cable for the I/O module
				Voltage error	(1)Reset the alarm. (2)If the alarm occurs again, Check the 24V external power supply. If abnormal, replace the 24V external power supply.
				Overrun limit switch released	Check that the overrun limit switch is not activating. If overrun limit switch is activating, return to a normal position.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4110	SHOCK SENSOR ACTION			Connection failure	(1)Reset the alarm (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·EAXA board CN512
				YPU unit board failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replacing the board to be safe.
				EAXA board failure	(1)Reset the alarm (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replacing the board to be safe.
4112	DATA SENDING ERROR	1	Retry over of NAK	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct.
		2	Retry over for timeout in timer A	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct.
		3	Retry over for mutual response error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct.
4113	DATA RECEIVING ERROR	1	Reception timeout (timer A)	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct.
		2	Reception timeout (timer B)	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct.
		3	Heading length is too short.	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct. (3)If the alarm occurs again, check the sent data is correct.
		4	Heading length is too long.	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct. (3)If the alarm occurs again, check the sent data is correct.
		5	The header No. error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct. (3)If the alarm occurs again, check the sent data is correct.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		6	The text length exceeded 256 characters.	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct. (3)If the alarm occurs again, check the sent data is correct.
		7	Illegal data received	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct. (3)If the alarm occurs again, check the sent data is correct.
4114	TRANSMISSION HARDWARE ERROR	1	Overrun error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct.
		2	Parity error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct.
		3	Framing error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct.
		4	Transmission timeout (timer A)	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct.
		5	Transmission timeout (timer B)	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct.
4115	TRANSMISSION SYSTEM BLOCK	1	Received EOT while waiting ACK.	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct. (3)If the alarm occurs again, check the sent data is correct.
		2	Received EOT while waiting ENQ.	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct. (3)If the alarm occurs again, check the sent data is correct.
		3	Received EOT before last block reception.	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct. (3)If the alarm occurs again, check the sent data is correct.
		4	Received codes other than EOT after last block reception.	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct. (3)If the alarm occurs again, check the sent data is correct.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4116	TRANSMISSION SYSTEM ERROR	1	Transmission data contents error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct. (3)If the alarm occurs again, check the sent data is correct.
		100	Trans error or protocol error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct. (3)If the alarm occurs again, check the sent data is correct.
4117	BRAKE POWER ERROR		Sub Code: EAXA/EAXB board number where alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurred again, check the brake wirings and confirm if the short circuit or the ground fault have happened.
				Fuse failure	(1)Reset the alarm. (2)If the alarm occurred again, check the brake wirings and replace the fuse.
4118	FAN CIRCUIT PROTECTOR TRIPPED		Sub Code: EAXA/EAXB board number where alarm occurred	Connection failure	Check if there is a ground fault or short circuit in the fan power line.
				Setting error	Check the following settings. ·(After cancellation of the short-circuit and ground fault) Turn ON the circuit protector.
4121	COOLING FAN1 ERROR		Sub Code: EAXA/EAXB board number where alarm occurred	Cooling fan failure	Replace the cooling fan of manipulator. Check the wiring from a manipulator to a servo board. * Move the manipulator to the safe position in the teach mode.
4122	COOLING FAN2 ERROR		Sub Code: EAXA/EAXB board number where alarm occurred	Cooling fan failure	Replace the cooling fan of manipulator. Check the wiring from a manipulator to a servo board. * Move the manipulator to the safe position in the teach mode.
4123	COOLING FAN3 ERROR		Sub Code: EAXA/EAXB board number where alarm occurred	Cooling fan failure	Replace the cooling fan of manipulator. Check the wiring from a manipulator to a servo board. * Move the manipulator to the safe position in the teach mode.
4124	WRONG EXECUTION OF VISION INST	1	The specified file number is incorrect.	Setting error	Check the following settings. ·File No. Specify the correct file number.
		2	The specified file set value is incorrect.	Setting error	Check the following settings. ·File set value Specify the set value.
		3	Calibration could not be executed.	Setting error	Check the following settings. ·The robot coordinate data or the pixel coordinate data used for the calibration ·The user variable number in the calibration file Set the robot coordinate data and the pixel coordinate data used for the calibration to the user variable. Correctly set the user variable number in the calibration file.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		4	The communication port for the vision system could not be initialized.	Setting error	Check the following settings. ·The Parameter for communication port
		5	Time-out occurred during data transmission.	Setting error	Check the following settings. ·The communication setting of vision system
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection of the following cables. ·Cable between vision system and DX100 system
		6	Time-out occurred during data reception.	Setting error	Check the following settings. ·The communication setting of vision system
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection of the following cables. ·Cable between vision system and DX100 system
		7	The data received from the vision system is incorrect.	Setting error	Check the following settings. ·The communication setting of vision system ·The detection setting of vision system
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection of the following cables. ·Cable between vision system and DX100 system
		8	The pixel coordinates value was not able to be converted into the robot coordinates.	Setting error	Check the following settings. ·The communication setting of vision system ·Calibration file for use
		9	Failed to read or write the position type variable (P variable).	Setting error	Check the following settings. Usage status of the specified position type variable Don't use the specified positional type variable at the same time in other jobs.
		10	Use memory is lacking and the area could not be obtained.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	The setting value of measurement item (FT) is incorrect.		Correct the setting value of a measurement item.
		12	The data for the vision execution command is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		48		Software operation error occurred	(1)Reset the alarm, and then try again. (2)Check the command sent by Vision sensor (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4125	TRANS ERROR (WELD PULSE COND)	1	File access error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct.
		2	File data error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the setting of communication or file data is correctly set.
		3	Calibration execution error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the setting of communication or transmission side data is correctly set.
		4	YCP01 port initialize error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the setting of communication or YCP01 port is correctly set.
		5	Time-out occurred during data transmission.	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct.
		6	Time-out occurred during data reception.	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct.
		7	Receive data error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct.
		8	Coordinate conversion error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the setting of communication or transmission side data is correctly set.
		9	Position type variable access error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the setting of communication or transmission side data is correctly set.
		10	Failed to store the area.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	Measurement item setting error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the setting of communication or transmission side data is correctly set.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		12	Tag setting error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the setting of communication or transmission side data is correctly set.
		48	Wait status table FULL	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the setting of communication or transmission side data is correctly set.
4126	CANNOT EXECUTE AUTO PMT	1	System error	Software operation error occurred	(1)Reset the alarm, and then try again. (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	PBOX cannot be edited.	Setting error	Check the following settings. ·I/O status of the edit prohibit signal The edit prohibit signal cannot input.
		3	The source job cannot be edited.	Setting error	Check the following settings. ·The prohibit status of source job If the source job is protected from editing, it cannot be edited.
		4	The converted job cannot be edited.	Setting error	Check the following settings. ·The prohibit status of converted job If the converted job is protected from editing, it cannot be edited.
		5	The memory area for job area is insufficient.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete unused jobs. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	The source job is not exist.	Setting error	Check the following settings. ·Presence of the specified source job The job which does not exist cannot be set to the source job.
		7	The memory area for position data of the job is insufficient.	Software operation error occurred	(1)Reset the alarm. (2)when the error occurs again, if there is an unnecessary teaching position, delete it. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		8	The job under execution is specified as the conversion job.	Setting error	Check the following settings. ·Execution status of the source job ·Execution status of the converted job The job under execution is specified for the source / converted job. Execute conversion operation after ending the job execution.
4128	ARC MONITOR ERROR	1	Monitor ON was executed in Monitor ON.	Setting error	Check the following settings. ·Arc monitor ON status Arc monitor ON cannot be executed during arc monitor ON.
		10	Analog CH specification or register specification is not exist.	Setting error	Check the following settings. ·Analog CH specification ·Register specification Analog CH specification or register specification is required.
		11	The number of samplings exceeds the set value.	Setting error	Check the following settings. ·The number of samplings The number of sampling is too much. Confirm the monitor ON/OFF status.
4129	TWIN DRIVE OUT OF RANGE (START)		Sub Code: Corresponding master-axes and slave-axes are displayed by the bit.	Setting error	Check the following settings. ·Pulse error of the master-axes and the slave-axes Switch to independent movement mode so that the pulse error of the master-axes and the slave-axes is settled within allowable range.
4130	NETWORK APPLICATION PROCESS ERROR	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
4131	UDP PROCESS ERROR	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. · The MII communications cable which I/O module of the corresponding sub code · (In case of MII communications last station) Terminator · 24V power of the corresponding I/O module
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
4132	TCP PROCESS ERROR	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		2	An error occurred in the process of the TCP server initialization of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
4134	COOLING FAN SET ABNORMAL	0	Cooling fan setting parameter disabled	Setting error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4135	TOYOPUC RUN STOP	0		Setting error	Check the following settings. ·Use the PCwin, etc. to run the TOYOPUC.
4136	TOYOPUC MAJOR ERROR	0	The PCI bus state of the TOYOPUC turns to "ER".	Setting error	Check the following settings. · OFF/ON status of the remote ·OFF/ON status of the power supply Turn OFF and back ON the remote or power supply.
4137	WRONG EXECUTION OF SETUALM INST	1	Alarm code specification error	Setting error	Check the following settings. ·Alarm code Specify the alarm in the range 8000 to 8999.
		2	Task specification error	Setting error	Check the following settings. ·Task specification Specify the task in the range 0 to 4 (7 at expansion).
		3	Motion mode specification error	Setting error	Check the following settings. ·Motion mode specification Set the motion mode to 0 or 1.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4138	WRONG EXECUTION OF SVON INST			Connection failure	Check the following settings. ·Short-circuit the external servo ON (EXSVON) of MXT terminal block.
				Setting error	Check the following settings. ·The concurrent I/O signal #80031 (servo ON condition1) ON ·The concurrent I/O signal #80033 (servo ON condition2) ON
4139	WRONG EXECUTION OF PRINT INST			Setting error	Check the following settings. ·The setting of the PRINT output conversion spec (character string specification) If there is no problem in the setting, delete the corresponding PRINT instruction and register again.
4140	WRONG EXECUTION OF DIALOG INST	1	DIALOG instruction control error	Setting error	Check the following settings. ·The tag setting of DIALOG instruction If no fault is found, delete corresponding DIALOG instruction, and then register again.
		2	Messages and buttons are not registered.	Setting error	Check the following settings. ·The information of DIALOG instruction message and button
		3	Buttons are not registered.	Setting error	Check the following settings. ·The information of DIALOG instruction button
4141	SNTP ERROR	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		4	The IP address error occurred in the SNTP process of the Ethernet function.	Setting error	Check the following settings. ·The IP address of the SNTP server ·The DHCP server operation (If the DHCP is used) ·The network status (If the DHCP is used)
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		5	Time-out occurred in the SNTP process of the Ethernet function.	Setting error	Check the following settings. ·The SNTP server operation ·The network status
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		6	The server time is not synchronized in the SNTP process of the Ethernet function.	Setting error	Check the following settings. ·The SNTP server operation ·The network status
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		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.
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		8	Illegal parameters were found in the SNTP process of the Ethernet function.	Setting error	Check the following settings. ·SNTP setting

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		9	The SNTP process of the Ethernet function was not successfully completed.	Setting error	Check the following settings. ·SNTP setting
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		10	The name resolution error occurred in the SNTP process of the Ethernet function.	Setting error	Check the following settings. ·The IP address of the SNTP server ·The DHCP server operation**If the DHCP is used ·The network status*If the DHCP is used
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		11	The error on getting of server address occurred in the SNTP process of the Ethernet function.	Setting error	Check the following settings. ·The DHCP server operation ·The network status
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		12	The server setting is incorrect in the SNTP process of the Ethernet function (for future use).	Setting error	Check the following settings. ·SNTP setting
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
4144	FUNCTION EXECUTION ERROR	0	Function execution error was detected. FN593 was executed 11 or more times in a row.	Teaching failure	(1)Reset the alarm. (2)Don't set FN593 11 or more times in a row. Review the teaching.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4150	OVERRUN DETECT		The overrun limit switch of the control group that corresponds to the indicated sub code was released.	Overrun limit switch released	Overrun limit switch is released. Select "OVERRUN&SHOCK SENSOR" under sub menu "ROBOT" to reset the limit switch.
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·EAXA board CN512
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replacing the board to be safe.
4151	OVERRUN DETECT (YSU UNIT)		The overrun limit switch of the control group that corresponds to the indicated sub code was released.	Overrun limit switch released	Overrun limit switch is released. Select "OVERRUN&SHOCK SENSOR" under sub menu "ROBOT" to reset the limit switch.
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·OT1:YSU unit CN203 ·OT2:YSU unit CN211 ·OT3:YSU unit CN215 ·OT4:YSU unit CN215
				Unit failure(YSU01)	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU01 unit. Save the CMOS.BIN before replacing the board to be safe.
4152	TIMING BELT BLOWN		Sub Code: EAXA/EAXB board number where alarm occurred	Manipulator timing belt is blown.	Move the manipulator in teach mode to the position where there is no torque on the driving belt. (1) Check the timing belt tension. (2) Check the wiring between manipulator and the CN212 of the machine safety unit (JZNC-YSU01-1E).
4153	COOLING UNIT ERROR		Sub Code: EAXA/EAXB board number where alarm occurred	Unit failure	Refer to the instructions of the cooling unit in use.
4154	COLLING FAN ERROR (DOOR)		Sub Code: EAXA/EAXB board number where alarm occurred	Connection failure	Check the connection and inserting state of the cables and connectors connected to the cooling fan.
				Power supply-voltage drop	Check if the primary power supply-voltage is operating normally.
				Fan dirt	Clean the cooling fan and its duct. If the alarm occurs again after the cleaning, replace the fan.
4155	COOLING FAN ERROR (BACKSIDE)		Sub Code: EAXA/EAXB board number where alarm occurred	Connection failure	Check the connection and inserting state of the cables and connectors connected to the cooling fan.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Power supply-voltage drop	Check if the primary power supply-voltage is operating normally.
				Fan dirt	Check the connection and inserting state of the cables and connectors connected to the cooling fan.
4156	COOLING FAN4 ERROR			Cooling fan failure	Replace the cooling fan of manipulator. Check the wiring from a manipulator to a servo board. * Move the manipulator to the safe position in the teach mode.
4157	COOLING FAN5 ERROR			Cooling fan failure	Replace the cooling fan of manipulator. Check the wiring from a manipulator to a servo board. * Move the manipulator to the safe position in the teach mode.
4158	COOLING FAN6 ERROR			Cooling fan failure	Replace the cooling fan of manipulator. Check the wiring from a manipulator to a servo board. * Move the manipulator to the safe position in the teach mode.
4159	COOLING FAN7 ERROR			Cooling fan failure	Replace the cooling fan of manipulator. Check the wiring from a manipulator to a servo board. * Move the manipulator to the safe position in the teach mode.
4200	SYSTEM ERROR (FILE DATA)		Sub code 01 to 50: Signifies the internal software error	Data error	(1)Reset the alarm. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
4201	SYSTEM ERROR (JOB)	-1	An error occurred during the access to a job in parameter specifications.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-2	Access time exceeded the limit during the access to a job.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-3	The access to a job could not be performed with the specified job name.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-4	Unavailable characters are used for a job name.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-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, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-6	The allowable job registration area (memory) was exceeded.	Setting error	Check the following settings. ·Delete unused jobs.
		-7	A job that did not exist in the memory was specified.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-8	An attempt was made to change the contents for the job prohibited from being edited.	Setting error	Check the following settings. ·Release the prohibition.
		-9	An error occurred during the access to a job in handle value.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-10	An error occurred in job data control system.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-11	An error occurred in sequence number of the accessed job.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-12	An error occurred in step number of the accessed job.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-13	A job specified at job search did not exist in the memory.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-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, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-16	Unused handles were lacking when an attempt was made to open a job.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-18	The number of instructions added to a job exceeded 9999.	Setting error	Check the following settings. ·Delete unnecessary instructions and add new instructions again.
		-19	The number of steps added to a job exceeded 9999.	Setting error	Check the following settings. Delete unnecessary steps and add new steps again.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-22	Job information was not able to be expanded.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-23	Job information was not able to be acquired.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-24	An error occurred in cluster control.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-25	Failed to read the cluster information.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-26	Heap area could not be obtained.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-90	The configuration data is damaged.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-91	The FAT area is damaged.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-92	A job data in the memory was destroyed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
4202	SYSTEM ERROR (JOB)	1	An error occurred in parameter specifications for the access to a job.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		3	The access to a job could not be performed with the specified job name.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Unavailable characters are used for a job name	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	The allowable job registration area (memory) was exceeded.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete unused jobs. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. ·Setting of EDIT LOCK in JOB header screen If the job is protected from editing, release the prohibition.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Software operation error occurred	(1)Reset the alarm. (2)If you edit this job, release the prohibition. (3)If the error occurs again, delete the job where the alarm occurred. (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. (5)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. ·Setting of EDIT LOCK in JOB header screen If the job is protected from editing, release the prohibition.
			An error occurred in parameter specifications for the access to a job.	Software operation error occurred	(1)Reset the alarm. (2)If you edit this job, release the prohibition. (3)If the error occurs again, delete the job where the alarm occurred. (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. (5)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		13	A job specified at job search did not exist in the memory.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. ·The number of call job stacks Set the job configuration that decreases the number of call job stacks.
				Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. ·The number of steps in job Delete unnecessary instructions in job and add new instructions.
				Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. ·The number of steps in job Delete unnecessary steps in job and add new steps.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		23	The accessed job was not opened.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		25	An error occurred when reading the cluster information of the accessed job.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		99	A job data in the memory was destroyed.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4203	SYSTEM ERROR (POSITION DATA)	-1	The memory area for position data is lacking at the initialization of the position data control process.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-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, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-3	The number of axes for position data is zero.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-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, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-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, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-6	Unused position data file is destroyed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-7	Unused position data file does not exist.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-8	Position data file is destroyed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-9	Position data control information is destroyed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-10	An error occurred in specified position data number.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-11	Position data is not registered.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-12	An attempt was made to access the undefined position data.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-13	An attempt was made to access the position data for the undefined control group.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-14	Position data control is not initialized.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-15	The number of axes for the control groups exceeded the limit.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-16	An error occurred in exclusive control during the position data control process.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-17	An error occurred in exceptional control during the position data control process.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		-20	Inconsistency of data.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
4204	SYSTEM ERROR (POSITION DATA)	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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		6	Unused position data file is destroyed.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. ·The number of steps in job (position data) Delete unnecessary position data in job and add new position data.
				Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		11	Position data is not registered.	Setting error	Check the following settings. ·Teaching of alarm occurred point Teaching the point where alarm occurred.
				Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, 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. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		20	Undefined position exists.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (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. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4206	SYSTEM ERROR (TRANSMISSION)		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4207	SYSTEM ERROR (MOTION)	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. (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	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. (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	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		15	RMS sending data error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		30	Interrupt main command error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		35	m_gen_area semaphore reception error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		45	Mail-box of sequence task is not ready.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		51	Sub-segment process timeout	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		54	AXIS command request FULL	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		64	Job queue DEQUE error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		75	Previous path data reference error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		80	Instruction queue and instruction system data area overflow	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		86	Conversion completion status for AXIS section feedback latch data not established	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. ·Correct the job so that the target position data is within the motion range. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. ·Correct the job so that the target position data is within the motion range. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		94	HA function error (conv_pulse_to_angle())	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		102	Error in the parameter for the table for physical TU	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		121	Job argument stack overflow	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		137	Queue operation error for score-board setting history (undefined operation)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		140	Queue operation error for instruction execution (at DEQUE)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		221	Transfer data overflow in offline data bank	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		224	No motor-gun control group for ESRCH instruction	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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 ≠ CV)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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 ≠ CV)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		242	No control group for motor gun for clearance move instruction	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		245	Overflow of entry number for instruction execution	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		251	SETFILE undefined file	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		261	Heap area obtainment failure (A_BANK)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		264	Heap area obtainment failure (Path/trace queue)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		1001	System task priority arrangement error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1007	VxWorks primitive error (semTake)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4208	SYSTEM ERROR (ARITH)	1	Prereading task is not completed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		6	No previous bank exists.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	The previous bank's prereading conversion could not correctly be completed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		16	Station/base axis motion command error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. ·The allowable breaking torque was exceeded only by the gravity moment. Set the gravity value of the tool within payload of the manipulator. ·Teach the manipulator orientation that does not become the overload for each-axes of the manipulator. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		29	FORMCUT internal control error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		37	Gauging function error (command designation error)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		38	A coordinated motion was attempted using the Following function.	Setting error	Check the following settings. ·Change the setting so that only the manipulator moves. **The coordinated motion cannot be performed by the Following function.
		39	Zero or a negative value is set for the bending speed of the Following function.	Setting error	Check the following settings. ·Set a positive value for the bending speed.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		40	Zero or a negative value is set for the bending stroke of the Following function.	Setting error	Check the following settings. ·Set a positive value for the bending stroke.
		41	Pulse linked JOG function error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		44	Segment overless: Segment excessive error	Setting error	Check the following settings. ·The teaching position cannot hold down the speed by the segment overless function. Reduce the teaching speed of the job.
		45	Segment overless: Path calculation repeat error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		47	Play path control: initialization error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		55	Pair coordinate system position calculation function error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. ·OPT higher acceleration and deceleration control is used. ·Don't use the OPT higher acceleration and deceleration control.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		58	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		59	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		64	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4209	OFFLINE SYSTEM ERROR (ARITH)	100	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		103	OFF_USER_POS valid control error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		112	No manipulator is designated for offline conveyor tracking turntable function.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4210	SYSTEM ERROR (LOCAL VARIABLE)	-1	Local variable is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Memory area for local variable could not be obtained.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	No unused handle value exists when local variable area is created.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-10	Local variable area shared heap area.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4220	SERVO POWER OFF FOR JOB		Sub Code: Control group	Setting error	Check the following settings. ·Turn OFF the servo power supply, and then turn ON the servo power supply for the group axis to be operated.
4221	SERVO POWER OFF FOR JOB		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.
4224	MEMOPLAY FILE ERROR	-1	An error occurred in control process for memory play file.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	The arrangement address information is destroyed for memory play file system.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	The fixed control information is destroyed for memory play file system.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4225	OVER SPEED (YCP01)		Signifies the control axis number which detected an error	Setting error	Check the following settings. ·The gun electrode hits the welded target distance of motor gun ·manipulator motion (external force, gravity)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·The motor power line ·The encoder line
				Unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the following unit. ·The motor
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
4226	COMMUNICATION SERVICE ERROR	1	The communication channel could not be opened/closed at OPEN/CLOSE instruction execution.	Setting error	Check the following settings. ·Setting of the RS (transmission) parameter
		100	The communication port is already opened.	Setting error	Check the following settings. The serial port setting
		101	The communication port is not opened.	Setting error	Check the following settings. The serial port setting
		102	No space was found in data sent buffer.	Setting error	Check the following settings. The serial port setting
		103	The setting value for the event queue designation parameter is incorrect.	Setting error	Check the following settings. ·RS157····Set to 1 to 4
		105	The type of output data is incorrect.	Setting error	Check the following settings. The serial port setting

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4228	WRONG DATA			Software operation error occurred	(1)Reset the alarm, and then execute following operation. ·Set to TEACH mode ·Select a sub menu [WRONG DATA LOG] under main menu [SETUP]. ·Execute "RESTORE" by selecting "UTILITY" from the pull-down menu. *Occurrence date changes to restoration date after it is restored. ·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. The factor 1: Check the position of the corresponding file The factor 2: Register the position of the corresponding file again *The factor 3: Just turn the power OFF and then ON again. (2)If it would not restore, select "RE CHECK" from the pull-down menu. (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. ·Set to TEACH mode ·Select a sub menu [WRONG DATA LOG] under main menu [SETUP]. ·Select "UTILITY" from the pull-down menu to execute "RESTORE". ·Load correct axes configuration data (2)If it would not restore, select "RE CHECK" from the pull-down menu, and then load correct axes configuration data. (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Data failure	(1) If the data including different axes configuration is loaded, the system data will become abnormal status, causing WRONG DATA alarm. In this case, execute the following operations. ·Execute "RESTORE" by selecting "UTILITY" from the pull-down menu. ·Load the data of correct axes configuration. (2)If it would not restore, select "RE CHECK" from the pull-down menu, and then load the data of correct axes configuration. (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4229	ETHERNET PROCESS ERROR	1	An error occurred in the acquisition process of the IP address during the IP address monitoring process of the Ethernet function.	Setting error	Check the following settings. ·The DHCP server operation (If the DHCP is used) ·The network status (If the DHCP is used)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		2	An error occurred in the acquisition process of subnet mask during the network service data creation process of the Ethernet function.	Setting error	Check the following settings. ·The DHCP server operation (If the DHCP is used) ·The network status (If the DHCP is used)
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		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. ·The DHCP server operation (If the DHCP is used) ·The network status (If the DHCP is used)
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		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. ·The DHCP server operation (If the DHCP is used) ·The network status (If the DHCP is used)
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		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. ·The DHCP server operation (If the DHCP is used) ·The network status (If the DHCP is used)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		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. ·The DHCP server operation (If the DHCP is used) ·The network status (If the DHCP is used)
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		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. ·The DHCP server operation (If the DHCP is used) ·The network status (If the DHCP is used)
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		8	An error occurred in the acquisition process of host name during the network service data creation process of the Ethernet function.	Other system failure	When EtherNet/IP (PCU-ETHIO) is enabled and offline alarm (alarm code is 0000 - 0999) is occurred, take countermeasures of the offlinealarm.
				Setting error	Check the following settings. ·The DHCP server operation (If the DHCP is used) ·The network status (If the DHCP is used)
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		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. ·The DHCP server operation (If the DHCP is used) ·The network status (If the DHCP is used)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		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. ·The DHCP server operation (If the DHCP is used) ·The network status (If the DHCP is used)
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		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. ·The DHCP server operation (If the DHCP is used) ·The network status (If the DHCP is used)
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		20	The subnet mask was not able to be acquired in the DHCP information update process of the Ethernet function.	Setting error	Check the following settings. ·The DHCP server operation (If the DHCP is used) ·The network status (If the DHCP is used)
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		21	Subnet mask update error occurred in the DHCP information update process of the Ethernet function.	Setting error	Check the following settings. ·The DHCP server operation (If the DHCP is used) ·The network status (If the DHCP is used)
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		25	Gateway update error occurred in the DHCP information update process of the Ethernet function.	Setting error	Check the following settings. ·The DHCP server operation (If the DHCP is used) ·The network status (If the DHCP is used)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
		26	Gateway clear error occurred in the DHCP information update process of the Ethernet function.	Setting error	Check the following settings. ·The DHCP server operation (If the DHCP is used) ·The network status (If the DHCP is used)
				YCP01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.
4234	COMMUNICATION TIMEOU (IO MODULE)	0	The IO module board connected with 0th serial bus exists.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The MII communications cable which I/O module of the corresponding node number • (In case of MII communications last station) Terminator • 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The MII communications cable which I/O module of the corresponding node number • (In case of MII communications last station) Terminator • 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The MII communications cable which I/O module of the corresponding node number • (In case of MII communications last station) Terminator • 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The MII communications cable which I/O module of the corresponding node number • (In case of MII communications last station) Terminator • 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The MII communications cable which I/O module of the corresponding node number • (In case of MII communications last station) Terminator • 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The MII communications cable which I/O module of the corresponding node number • (In case of MII communications last station) Terminator • 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The MII communications cable which I/O module of the corresponding node number • (In case of MII communications last station) Terminator • 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The MII communications cable which I/O module of the corresponding node number • (In case of MII communications last station) Terminator • 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The MII communications cable which I/O module of the corresponding node number • (In case of MII communications last station) Terminator • 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The MII communications cable which I/O module of the corresponding node number • (In case of MII communications last station) Terminator • 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The MII communications cable which I/O module of the corresponding node number • (In case of MII communications last station) Terminator • 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The MII communications cable which I/O module of the corresponding node number • (In case of MII communications last station) Terminator • 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The MII communications cable which I/O module of the corresponding node number • (In case of MII communications last station) Terminator • 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		14	An error was detected in communications timeout with the YIU unit when the control power was turned ON.	Setting error	Check the following settings. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • MII communications cable (CN114) of the YIF board • MII communications cable (CN300) of the YIU unit • (In case of MII communications last station) Terminator • 24V power of the YIU unit
				YIU unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following unit. • YIU unit
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The MII communications cable which I/O module of the corresponding node number • (In case of MII communications last station) Terminator • 24V power of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. • PCI slot number in which each PCI board is mounted • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • The PCI connector of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • The corresponding I/O module (PCI board)
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. • PCI slot number in which each PCI board is mounted • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • The PCI connector of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • The corresponding I/O module (PCI board)
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. • PCI slot number in which each PCI board is mounted • I/O module settings in maintenance mode

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • The PCI connector of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • The corresponding I/O module (PCI board)
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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. • PCI slot number in which each PCI board is mounted • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • The PCI connector of the corresponding I/O module
				Board failure (I/O module)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • The corresponding I/O module (PCI board)
				YIF board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
4240	TPS:ERROR		Sub Code: Welding power source number.	Error occurred in the Fronius power source.	Confirm the following content. Step1: Check what kind of the error code is expressed on the front panel of Fronius power source. Step2: Check according with the Fronius's manual.
4241	MOTOWELD SYSTEM RESET		Sub Code: Welding power source number.	System software on the welding power source is resetting now.	When finish system reset, Shut down the welding power source.
4242	MOTOWELD INPUT OVER-CURRENT		Sub Code: Welding power source number.	Overcurrent flows in the primary control circuit.	(1)Check if the output cable is short-circuited or grounded. (2) The power circuit may be broken . Contact your Yaskawa representative.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4243	MOTOWELD OUTPUT OVER-CURRENT		Sub Code: Welding power source number.	Overcurrent flows in the secondary control circuit.	Confirm the following content. (1)Check that the torch cable or power cable is not grounded? (2)Check that the contact tip does not contact the welding work piece? (3)Check that the encoder cable is not damaged? (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.
4244	MOTOWELD INPUT OVER-VOLTAGE		Sub Code: Welding power source number.	Primary input voltage exceeding 550V is applied continuously for two seconds.	Confirm the input voltage.
4245	MOTOWELD EXCESSIVE TEMPERATURE		Sub Code: Welding power source number.	The temperature in the primary or secondary control circuit exceeds the specified value of the welding source.	(1)Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%). (2) Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary.
4246	MOTOWELD INPUT UNDER-VOLTAGE		Sub Code: Welding power source number.	Primary input voltage is lower than 390V continuously fir two seconds.	Confirm the input voltage.
4247	MOTOWELD WATER UNDER-FLOW		Sub Code: Welding power source number.	Hydraulic pressure is drop.	(1)Fill up the cooling water. (2)Check the circuit of cooling water.
4248	MOTOWELD DIGITAL I/F WDG.ERROR		Sub Code: Welding power source number.	The communication between the welding power source and the robot controller was suspended.	Confirm the following content. (1) The LAN cable has not damaged. (2) The Ethernet protocol address setting is correct. (Check that C parameter of the welding power source and RS parameter of the robot controller.) (3) Welding power source is turn on.
4249	MOTOWELD DIGITAL I/F NODE ERROR		Sub Code: Welding power source number.	In CAN-interface for welder power source, the Node setting is duplicated.	Check the Node of the each welder power sources and robot controller.
4250	MOTOWELD DIGITAL I/F ERROR		Sub Code: Welding power source number.	Welder power source receive the unknown message.	Confirm the following content. (1) LAN cable is not damaged. (2) Protocol type of the VEW01 is correct. (is MOTOWELD type?)
4251	MOTOWELD DIGITAL I/F FILE# ERROR		Sub Code: Welding power source number.	The user file number is out of range.	Set the user file number 1...16.
4252	MOTOWELD DIGITAL I/F CHIP ERROR		Sub Code: Welding power source number.	Network interface chip is broke down.	Replace the main board {Pr(MB) -024}. Contact your Yaskawa representative.
4253	MOTOWELD MACHINE TYP.ERROR1		Sub Code: Welding power source number.	Nonconformity in the model setting of hardware and software.	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4254	MOTOWELD MACHINE TYP.ERROR2		Sub Code: Welding power source number.	Nonconformity in the model setting of hardware and software.	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
4255	MOTOWELD MACHINE TYP.ERROR3		Sub Code: Welding power source number.	Nonconformity in the model setting of hardware and software.	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
4256	MOTOWELD MACHINE TYP.ERROR4		Sub Code: Welding power source number.	Nonconformity in the model setting of hardware and software.	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
4257	MOTOWELD PANEL SW SETTING ERROR		Sub Code: Welding power source number.	The DIP switch of PR(CR) -002R1 board is not correctly set.	(1) Check the DIP switch setting of PR(CR) -002R1 board. (2) PR(CR) -002R1 board may be broken. Contact your YASKAWA representative.
4258	MOTOWELD FEEDER ERROR		Sub Code: Welding power source number.	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.	Confirm the following content. (1)The encoder cable be not damaged? (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. (3)Check if the wire load becomes heavy. Make sure that the torch cable and conduit cable are not bent excessively.
4259	MOTOWELD MOTOR OVER-CURRENT		Sub Code: Welding power source number.	Overcurrent above the rated current flows in the motor circuit.	Check if the wire load becomes heavy. Make sure that the torch cable and coduit cable are not bent excessively.
4260	MOTOWELD CPU ERROR1		Sub Code: Welding power source number.	A communication error between CPU1 and CPU2 occurs.	The board may be broken. Contact your Yaskawa representative.
4261	MOTOWELD CPU ERROR2		Sub Code: Welding power source number.	A communication error between CPU1 and CPU2 occurs.	The board may be broken. Contact your Yaskawa representative.
4262	MOTOWELD MEMORY ERROR1		Sub Code: Welding power source number.	An error occurs in the data in the welding power source internal memory.	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") If the error occurs again, the board may be broken. Contact your Yaskawa representative.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4263	MOTOWELD MEMORY ERROR2		Sub Code: Welding power source number.	An error occurs in the data in the welding power source internal memory.	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") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
4264	MOTOWELD MEMORY ERROR3		Sub Code: Welding power source number.	An error occurs in the data in the welding power source internal memory.	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") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
4265	MOTOWELD MEMORY ERROR4		Sub Code: Welding power source number.	An error occurs in the data in the welding power source internal memory.	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") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
4266	MOTOWELD MEMORY ERROR5		Sub Code: Welding power source number.	An error occurs in the data in the welding power source internal memory.	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") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
4267	MOTOWELD MEMORY ERROR6		Sub Code: Welding power source number.	An error occurs in the data in the welding power source internal memory.	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") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
4268	MOTOWELD MEMORY ERROR7		Sub Code: Welding power source number.	An error occurs in the data in the welding power source internal memory.	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") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
4269	MOTOWELD STARTING SIGNAL ERROR		Sub Code: Welding power source number.	Arc starting signal is input before the welding power source's main power supply starts up.	Check again the operation timing or signal cable connections. The same error may occur at momentary power failure.
4270	MOTOWELD NO WELDING TYPE		Sub Code: Welding power source number.	Execution arc start without welding process.	Select a correct welding process in the using the welding user file.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4271	MOTOWELD VOLT.DETECT WIRE ERROR		Sub Code: Welding power source number.	The welding voltage is not detected.	(1)Check if the voltage detection wire is connected. Heck if the voltage detection line or the short-circuit cap is connected to the CON7 of the MOTOWELD. (2)Check that the contact tip does not contact the work piece to be welded. Set the contact tip so as not to contact the work piece. (3)Temporary power failure may have occurred.
4272	MOTOWELD SAFTY-CIRCUIT ERROR		Sub Code: Welding power source number.	Safety circuit broken.	Contact your Yaskawa representative.
4273	MOTOWELD IGBT SHORT CIRCUIT		Sub Code: Welding power source number.	The IGBT device of power circuit broken.	Replace the IGBT device (Part code AJ0EL3870). Contact your Yaskawa representative.
4274	MOTOWELD VOLTAGE DETECTOR ERROR		Sub Code: Welding power source number.	The welding voltage is not able to be detected.	Contact your Yaskawa representative.
4275	MOTOWELD AUX. CIRCUIT OV. CURRENT		Sub Code: Welding power source number.	Overcurrent flows in the auxiliary circuit.	The board may be broken. Contact your Yaskawa representative.
4276	MOTOWELD DSP ADC ERROR		Sub Code: Welding power source number.	The main board broken.	Contact your Yaskawa representative.
4277	MOTOWELD OUTSIDE OF CURR.SETTING (H)		Sub Code: Welding power source number.	The actual welding current becomes far removed from the welding current command value.	(1)Check if the selection of motor is correct, or confirm the settings of C parameter C09. (2)Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command. (3)Check that the wire stick out is not excessively short or long. (4)Check that the range set in C parameter C29 is not too narrow. (5)Check if the wire, shielding, etc. are correctly set.
4278	MOTOWELD OUTSIDE OF CURR.SETTING (L)		Sub Code: Welding power source number.	The actual welding current becomes far removed from the welding current command value.	(1)Check if the selection of motor is correct, or confirm the settings of C parameter C09. (2)Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command. (3)Check that the wire stick out is not excessively short or long. (4)Check that the range set in C parameter C29 is not too narrow. (5)Check if the wire, shielding, etc. are correctly set.
4279	MOTOWELD MOMENTARY OVER-CURR		Sub Code: Welding power source number.	Overcurrent flows in the secondary control circuit momentarily.	(1)Check that short-circuit or the earth grounded of the output cable. (2)May be power circuit broken. Contact your Yaskawa representative.
4280	MOTOWELD OVER-VOLTAGE		Sub Code: Welding power source number.	Overcurrent flows in the output side circuit.	Contact your Yaskawa representative.
4281	MOTOWELD +15V POWER SUPPLY ERROR		Sub Code: Welding power source number.	The switching power supply unit broken.	Replace the switching power supply unit. (Service parts code:AJ0E35055)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4282	MOTOWELD POWER SUPPLY ERROR		Sub Code: Welding power source number.	The switching power supply unit broken.	Replace the switching power supply unit. (Service parts code:AJ0E35055)
4283	MOTOWELD ILLEGAL WELD TYPE		Sub Code: Welding power source number.	A wrong welding process is set in the welding user file.	Confirm the welding process setting in the welding user file.
4284	MOTOWELD reserved1		Sub Code: Welding power source number.	Sub Code: Welding power source number.	Contact your Yaskawa representative.
4285	MOTOWELD reserved2		Sub Code: Welding power source number.	Sub Code: Welding power source number.	Contact your Yaskawa representative.
4286	MOTOWELD reserved3		Sub Code: Welding power source number.	Sub Code: Welding power source number.	Contact your Yaskawa representative.
4287	MOTOWELD reserved4		Sub Code: Welding power source number.	Sub Code: Welding power source number.	Contact your Yaskawa representative.
4288	MOTOWELD reserved5		Sub Code: Welding power source number.	Sub Code: Welding power source number.	Contact your Yaskawa representative.
4289	MOTOWELD reserved6		Sub Code: Welding power source number.	Sub Code: Welding power source number.	Contact your Yaskawa representative.
4290	MOTOWELD reserved7		Sub Code: Welding power source number.	Sub Code: Welding power source number.	Contact your Yaskawa representative.
4300	VERIFY ERROR (SERVO PARAMETER)			Setting error	Check whether the setting is within the allowable range.
				EAXA board failure	(1)Reset the alarm (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replacing the board to be safe.
4301	CONTACTOR ERROR		Sub Code: Signifies the physical No. of contactor in which the alarm occurred 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.	Module failure (contactor)	Check if the contactors (1KM and 2KM) are open, and not damaged by melting or sticking. Check the insertion and connection of the followings. ·YSU-CN214 ·YPU-CN607,CN-611

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Reset the alarm (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replacing the board to be safe.
4302	BRAKE CIRCUIT ERROR			Software operation error occurred	(1)Reset the alarm (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA board failure	(1)Reset the alarm (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replacing the board to be safe.
4303	CONVERTER READY SIGNAL ERROR		Sub Code: Signifies the physical No. of converter in which the alarm occurred	Connection failure	(1)Reset the alarm (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·YPU unit ·EAXA board CN507
				Module failure (contactor)	Check if the contactors (1KM and 2KM) are open, and not damaged by melting or sticking.
				EAXA board failure	(1)Reset the alarm (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
				Module failure (converter)	(1)Reset the alarm (2)If the alarm occurs again, replace the SERVOPACK.
4304	CONVERTER INPUT POWER ERROR		Sub Code: Signifies the physical No. of converter in which the alarm occurred	Module failure (contactor)	Check if the contactors 1KM and 2KM are not damaged by melting or sticking.
				YPU unit board failure	(1)Reset the alarm (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replacing the board to be safe.
				Connection failure	(1)Reset the alarm (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·EAXA01-CN507,510 ·EAXB01-CN08 ·Converter CN551,553
				Module failure (converter)	(1)Reset the alarm (2)If the alarm occurs again, replace the SERVOPACK.
4305	CONVERTER CIRCUIT CHARGE ERROR		Sub Code: Signifies the physical No. of converter in which the alarm occurred	Module failure (converter)	(1)Reset the alarm (2)If the alarm occurs again, replace the SERVOPACK.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Module failure (Regenerative resistor)	Check if there is no ground fault in the regeneration resistors.
4306	AMPLIFIER READY SIGNAL ERROR		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Reset the alarm (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·EAXA-CN501 to 506,CN510 ·EAXB-CN531,532,533 ·Amplifier-CN581,582 ·Converter-CN551,552A,552B
				Power supply failure	Replace the power supply.
				Module failure(amplifier)	(1)Reset the alarm (2)If the alarm occurs again, replace the amplifier.
				EAXA board failure	(1)Reset the alarm (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
4307	SERVO ON DEFECTIVE SPEED		Sub Code: Signifies the axis in which the alarm occurred	Movement of axis when the SERVO ON process	Turn ON the servo power after 5 or more seconds from the alarm occurrence.
				Connection failure	(1)Reset the alarm (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·The SERVOPACK motor power line connector ·The power cable connection of the manipulator cable.
				EAXA board failure	(1)Reset the alarm (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
				Mechanical failure	Check that the manipulator is not moving when the servo turned ON.
				Module failure (motor)	(1)Reset the alarm (2)If the alarm occurs again, replace the motor.
				YBK board failure	Check that the brake has not been released because the brake relay is broken.
4308	VOLTAGE DROP (CONVERTER)		Sub Code: Signifies the physical No. of converter in which the alarm occurred	Connection failure	(1)Reset the alarm (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·EAXA01-CN507,510 ·EAXB01-CN08 ·Converter CN551,553
				Module failure (converter)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the SERVOPACK.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Reset the alarm (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
				Voltage failure	Check if the primary power supply voltage is dropping.
4309	DEFECTIVE ENCODER INTERNAL DATA		Sub Code: Signifies the axis in which the alarm occurred	Module failure (encoder)	(1)Reset the alarm (2)If the alarm occurs again, replace the encoder.
				Software operation error occurred	(1)Reset the alarm (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4310	ENCODER OVERHEAT		Sub Code: Signifies the axis in which the alarm occurred	Overheated encoder	Turn OFF the NX100 power for approx. 10 minutes, then turn it ON again.
				High ambient temperature	Adjust the ambient temperature to 40C° or less.
				Module failure (encoder)	(1)Reset the alarm (2)If the alarm occurs again, replace the encoder.
				EAXA board failure	(1)Reset the alarm (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
4311	ENCODER BACK-UP ERROR		Sub Code: Signifies the axis in which the alarm occurred	Module failure (encoder battery)	{AL-4314 occurred} Replace the battery of the axis in which the error occurred.
				Connection failure	(1)Reset the alarm (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. [Robot axis] ·Cable between encoders ·EAXA-CN508 [External axis] ·Cable between encoders ·EAXB-CN0534,535,536
				Module failure (encoder)	(1)Reset the alarm (2)If the alarm occurs again, replace the encoder.
				Connection failure	(1)Reset the alarm (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·Manipulator cable
4312	ENCODER BATTERY ERROR			Module failure (encoder battery)	Replace the battery.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·Manipulator cable
4315	COLLISION DETECT		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. ·The tool information ·The selection tap of the transfer ·The collision detection level ·JOB ·Work ·The speed of JOB ·The acceleration/deceleration speed of ACC and DEC ·Length of the power cables ·Diameter of the power cables
				Interference error	Remove the following interferences. ·The interferences to the jigs of Robot. ·The interferences to the jigs of workpieces.
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·The SERVOPACK motor power line connector ·The power cable connection of the manipulator cable.
				Module failure (amplifier)	(1)Reset the alarm. (2)If the alarm occurs again, replace the amplifier.
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the amplifier.
				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.
				Module failure (brake)	Check the brake voltage. Check that the brake is not locked by malfunction of contactor.
				Module failure (power supply contactor unit)	(1)Reset the alarm. (2)Operate (JOG operation) other axes. (3)If the alarm occurs again in multiple axes, replace the power supply contactor unit.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4316	PRESSURE DATA LIMIT		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. ·The gun pressure file ·The dry spotting pressure file *Reset the pressure value in the gun pressure file below the maximum pressure value
4317	PRELOAD ERROR		Sub Code: Signifies the axis in which the alarm occurred	Effect of external force	Adjust the gun opening.
4318	SERIAL ENCODER CORRECTION LIMIT		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. [Robot axis] ·Cable between encoders ·EAXA-CN508 [External axis] ·Cable between encoders ·EAXB-CN0534,535,536
				Module failure (encoder)	(1)Reset the alarm. (2)If the alarm occurs again, replace the encoder.
				EAXA board failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replacing the board to be safe.
4319	PRELOAD ERROR 2		Sub Code: Signifies the axis in which the alarm occurred	Effect of external force	Move the gun axis to another position by manual operation and then turn the servo power on again.
4320	OVERLOAD (CONTINUE)		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. ·The tools or the mass of the workpieces ·Reduction in the moments ·Reduction in the motion speed
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
				YPU unit board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replacing the board to be safe.
				Interference error	Remove interference with the workpiece and peripheral device.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Setting error	Correct the job whether load late does not exceed 100%.
				Module failure (brake)	Check the brake voltage. Check that the brake is not locked by malfunction of contactor.
4321	OVERLOAD (MOMENT)		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. ·The tools or the mass of the workpieces ·Reduction in the moments ·Reduction in the motion speed
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the following cables. ·The wire harness in the robot.
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
				YPU unit board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replacing the board to be safe.
				Interference error	Remove interference with the workpiece and peripheral device.
				Setting error	Correct the job whether load late does not exceed 100%.
				Module failure (brake)	Check the brake voltage. Check that the brake is not locked by malfunction of contactor.
4322	AMPLIFIER OVERLOAD (CONTINUE)		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. ·The tools or the mass of the workpieces ·Reduction in the moments ·Reduction in the motion speed
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the following cables. ·The wire harness in the robot.
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
				YPU unit board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replacing the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Interference error	Remove interference with the workpiece and peripheral device.
				Setting error	Correct the job whether load late does not exceed 100%.
				Module failure (brake)	Check the brake voltage. Check that the brake is not locked by malfunction of contactor.
4323	AMPLIFIER OVERLOAD (MOMENT)		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. ·The tools or the mass of the workpieces ·Reduction in the moments ·Reduction in the motion speed
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the following cables. ·The wire harness in the robot.
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
				YPU unit board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replacing the board to be safe.
				Interference error	Remove interference with the workpiece and peripheral device.
				Setting error	Correct the job whether load late does not exceed 100%.
				Module failure (brake)	Check the brake voltage. Check that the brake is not locked by malfunction of contactor.
4324	CONVERTER OVERLOAD			Setting error	Check the following settings. ·The manipulator operating condition ·Teaching speed
4326	OVER SPEED		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. ·Reduction in the motion speed
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
				Motor gun Setting error	·Short-open the strike of the motor gun in which the alarm occurred
				Connection failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, check the wiring of phase-U, -V, and -W is correct.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4327	WRONG MOTOR ROTATION		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·The motor power line ·The encoder line
4328	SERVO TRACKING ERROR		Sub Code: Signifies the axis in which the alarm occurred	Interference error	Remove the interference of robot.
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·The SERVOPACK motor power line connector ·The power cable connection of the manipulator cable.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
				Module failure (amplifier)	(1)Reset the alarm. (2)If the alarm occurs again, replace the amplifier.
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the wiring of phase-U, -V, and -W is correct.
				Module failure (brake)	Check the brake voltage. Check that the brake is not locked by malfunction of contactor.
4330	BROKEN SPEED MONITOR LINE			Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·Speed monitor unit
4331	SPEED MONITOR LEVEL ERROR			EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replacing the board to be safe.
4332	POSITION ERROR (SERIAL ENCODER)			Noise error	Eliminate the noise or take a countermeasure against the noise.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. [Robot axis] ·Cable between encoders ·EAXA-CN508 [External axis] ·Cable between encoders ·EAXB-CN0534,535,536
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
4334	OVERVOLTAGE (CONVERTER)		Sub Code: Signifies the physical No. of converter in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·EAXA01-CN507,510 ·EAXB01-CN08 ·Converter CN551,553
				Setting error	Check the following settings. ·The load mounted on the manipulator
				Voltage failure	Modify the primary breaker voltage to the specified voltage 200V(+10% to 15%).
				Module failure (Regenerative resistor)	Replace the regenerative resistor.
				Module failure (converter)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
				Overloading	Check that the load does not exceed the allowable limit.
4335	GROUND FAULT		Sub Code: Signifies the axis in which the alarm occurred (If the alarm occurred at an axis which is driven by a common converter, all the subject axes are indicated.)	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·EAXA01-CN507,510 ·EAXB01-CN08 ·Converter CN551,553

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following cables. Check the axis in which earth fault occurs in the alarm history screen. 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) (1) External axis cables (Power wire) (2) Traveling axis cable (Power wire) (3) Power supply cable (Robot axis, external axis) (Power wire) (4) Internal cables (Robot axis, external axis) (Power wire)
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
				Module failure (contactor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the contactor.
				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. (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.
4336	OPEN PHASE (CONVERTER)		Sub Code: Signifies the physical No. of converter in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·EAXA01-CN507,510 ·EAXB01-CN08 ·Converter CN551,553
				Voltage failure	Modify the primary breaker voltage to the specified voltage 200V(+10% to 15%).
				Module failure (contactor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the contactor.
				Module failure (converter)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4337	OVERCURRENT (AMP)		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·EAXA-CN501 to 506,CN510 ·EAXB-CN531,532,533 ·Amplifier-CN581,582 ·Converter-CN551,552A,552B
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the following cables. ·Manipulator cable ·Supply cable
				Module failure (amplifier)	(1)Reset the alarm. (2)If the alarm occurs again, replace the amplifier.
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
4338	REGENERATIVE TROUBLE (CONVERTER)		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·EAXA01 board ·EAXB01 board ·Converter-CN557 ·Cable between the regenerative resistors
				Module failure (Regenerative resistor)	Replace the regenerative resistor.
				Module failure (converter)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
				Overloading	Check that the load does not exceed the allowable limit.
4339	INPUT POWER OVER VOLTAGE (CONV)		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% to 15%).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·EAXA01-CN507,510 ·EAXB01-CN08 ·Converter CN551,553
				Module failure (converter)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
4340	TEMPERATURE ERROR (CONVERTER)		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% to 15%).
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·EAXA01-CN507,510 ·EAXB01-CN08 ·Converter CN551,553
				Module failure (converter)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
				High ambient temperature	Adjust the ambient temperature to 40C°C° or less.
				Install failure	Check that the air inlet or outlet is not blocked.
4341	CONNECTION ERROR (REGENERATION)		The DX100 system performs serial communications between controller and the power regenerative unit. This alarm occurs if the system fails to establish the communications. Sub Code: The power regenerative unit channel no. 0000_0001:CH1 0000_0010:CH2 0000_0100:CH3 0000_1000:CH4	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ・EAXA-CN533 ・Power regenerative unit-TB5

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA board failure	(1)Reset the alarm.. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
				Power regenerative unit failure	(1)Reset the alarm. (2)If the alarm occurs again, contact your Yaskawa representative about occurrence status (operating procedure).
4344	LINEAR SERVOFLOAT TRACKING ERROR			Setting error	Check the settings for jobs.
4345	LNK SERVOFLOAT EXECUTE ERROR			Setting error	Check the settings for jobs.
4346	LNK SERVOFLOAT TRQ LIMIT ERROR			Setting error	Check the limit torque of the link servo float condition file.
4347	LNR SERVOFLOAT TRQ LIMIT ERROR			Setting error	Check the limit torque of the link servo float condition file.
4348	LNR SERVOFLOAT COORD TYPE ERROR			Setting error	Check the setting file of the job and the linear servo float.
4349	LNR SERVOFLOAT TOOL POSE ERROR			Setting error	Check the setting file of the job and the linear servo float.
4350	LNR SERVOFLOAT EXECUTE ERROR			Setting error	Check the settings for jobs.
4351	DRIVE BELT SNAP DETECT		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	Check that the driving belt is not broken.
				Driving belt failure	Check the driving belt.
4352	TWIN DRIVE OVER DEVIATION			Setting error	Check the load settings.
4353	DEFECTIVE TAUGHT POINT(ENDLESS)		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. ·Setting of the command soft (JOB) ·MRESET instruction to corresponding axis
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replacing the board to be safe.
4354	FILE NO. ERROR (SHOCK LEVEL)		Sub Code: File number	Setting error	Do not use the collision detection file for exclusive use for the SVSPOT with the SHCKSET instruction.
4355	EXTERNAL PRES DETECT (SERVOFLOAT)			Setting error	Check the settings for jobs.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4356	ARM CTRL PARAMETER ERR(OBSERVER)			Setting error	Check the settings for jobs.
4357	IMPOSSIBLE SRCH (EQUALIZE TEACH)			Setting error	Check the settings for jobs.
4358	DUPLICATED PRESS ERROR			Setting error	End the current pressuring operation, and then execute the pressuring instruction.
4359	CONVERTER ERROR		Sub Code: Signifies the physical No. of converter in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·EAXA01-CN507,510 ·EAXB01-CN08 ·Converter CN551,553
				Module failure (converter)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
4360	WAFER ALIGNMENT ERROR(SERVO)			Connection failure	Check the connection of prealigner.
4362	POWER SUPPLY READY ERROR (SERVO)			Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·EAXA-CN501 to 506,CN510 ·EAXB-CN531,532,533 ·Amplifier-CN581,582 ·Converter-CN551,552A,552B
				EAXA board failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
				Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4363	BASE BLOCK SIGNAL ERROR(SERVO)			Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·EAXA-CN501 to 506,CN510 ·EAXB-CN531,532,533 ·Amplifier-CN581,582 ·Converter-CN551,552A,552B
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replacing the board to be safe.
				Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4364	GUN SOFTLIMIT		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. ·Home position of gun axis [Released side] Reset the software limit of released side gun. (Parameter S1CxG400 or 408) [Closed side] Reset the software limit at the gun closed side. Add the moving amount of electrode wear. (Parameter S1CxG400 or 408)
4365	TOUCH DETECT DATA OVER			Setting error	Check the following settings. ·Home position of gun axis ·"The motion limit for which the fixed (movable) gun electrode hits the welded target" in the gun condition file ·"The pulse-stroke converter" in the gun condition file.
4366	GUN BEND COMPENSATION SET ERROR		Sub Code: Signifies the group in which the alarm occurred	Setting error	Check if this model is supported.
4367	ROBOT POSE ERROR			Setting error	Check the settings for jobs.
4371	SYSTEM ERROR (SERVO)			Setting error	Check if the brake unit supports independent brake control.
4372	SERVO ON SIGNAL ERROR			Connection failure	Check the connections between TU board and EAXA board. Replace the TU board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4373	MAGNETIC POLE DETECTING ERROR			Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the linear encoder.
4374	PHASE DATA UNMATCH			Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the linear encoder.
4376	ROLLER HEM FUNCTION ERROR	1	Multiple axes are specified for hemming axis	Setting error	Save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Torque / Press data in the [PRESS PROOFREADING] file s not specified	Setting error	(1)Check the [PRESS PROOFREADING] file. (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	Press unit in the [PRESS PROOFREADING]file is not correct	Setting error	(1)Check the [PRESS PROOFREADING] file. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Press revision in the [PRESS PROOFREADING] file is not correct	Setting error	(1)Check the [PRESS PROOFREADING] file. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	The torque data set in the [PRESS PROOFREADING] file is not correct	Setting error	(1)Check the [PRESS PROOFREADING] file. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	The press value set in the [PRESS PROOFREADING] file is not correct	Setting error	(1)Check the [PRESS PROOFREADING] file. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	The [PRESS SETTING] file is NOT DONE.	Setting error	(1)Check the [PRESS SETTING] file. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	The press value set in the [PRESS SETTING] file is not correct	Setting error	(1)Check the [PRESS SETTING] file. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	The detect level in the [PRESS SETTING] file is not correct	Setting error	(1)Check the [PRESS SETTING] file. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		10	The detect delay time in the [PRESS SETTING] file is not correct	Setting error	(1)Check the [PRESS SETTING] file. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	Incorrect value has been specified for the hemming axis.	Setting error	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4377	ROLLER HEM CONTROL GROUP ERROR		Sub Code: Control group of the hemming axis	Setting error	(1)Check if the hemming axis that was picked up is correct. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4380	M-SAFETY PROCESS ERROR(CPU1)			YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
4381	M-SAFETY ENABLE SW ERROR(CPU1)	1	Inconsistency of enable signal was detected for a certain time period in the programming pendant.	Enable signal unmatched error	(1)Reset the alarm. (2)Check the followings. ·There are two point of contact enable switch, and only one might be turned on by how to squeeze. Moreover, only one might be turned on when putting it on the place where it is not a plane on the knee etc. Check how to squeeze or put the programming pendant on flat.
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Confirmation of wiring for pin numbers A3, A4, B3, and B4 of YSU unit (CN209 connector) and connector of programming pendant
				Hardware failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of programming pendant ·Replacement of programming pendant ·Replacement of YSU unit
4382	M-SAFETY PROCESS ERROR(CPU2)			YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4383	M-SAFETY ENABLE SW ERROR(CPU2)	1	Inconsistency of enable signal was detected for a certain time period in the programming pendant.	Enable signal unmatched error	(1)Reset the alarm. (2)Check the followings. ·There are two point of contact enable switch, and only one might be turned on by how to squeeze. Moreover, only one might be turned on when putting it on the place where it is not a plane on the knee etc. Check how to squeeze or put the programming pendant on flat.
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Confirmation of wiring for pin numbers A3, A4, B3, and B4 of YSU unit (CN209 connector) and connector of programming pendant
				Hardware failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of programming pendant ·Replacement of programming pendant ·Replacement of YSU unit
4384	M-SAFETY SIGNAL ERROR(CPU1)	0	CPU1 detected an inconsistency of emergency stop signal in the programming pendant.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, execute the following operations: ·Confirm wiring for pin numbers A3, A4, B3, and B4 of YSU unit (CN209 connector) and connector of programming pendant ·Replace the programming pendant cable ·Replace the emergency switch on the programming pendant and the cable that connects to the YSU unit
				Programming pendant failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, replace the programming pendant
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		2	CPU1 detected an inconsistency of emergency stop signal in robot controller.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Confirmation of wiring for pin numbers A1, A2, B1, and B2 of YSU unit (CN208 connector) and emergency stop SW of robot controller

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Hardware failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of the emergency stop button on the robot controller ·Replacement of YSU unit ·Replacement of the emergency stop button on the robot controller and the cable that connects to the YSU unit
		3	CPU1 detected an inconsistency of external emergency stop signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of YSU unit (CN216 connector) and pin numbers 19, 20, 21, and 22 of MXT terminal block
		4	CPU1 detected an inconsistency of external enable switch signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of YSU unit (CN216 connector) and pin numbers 33, 34, 35, and 36 of MXT terminal block
		5	CPU1 detected an inconsistency of safeguarding signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of YSU unit (CN216 connector) and pin numbers 9, 10, 11, and 12 of MXT terminal block
		6	CPU1 detected an inconsistency of full speed test signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of YSU unit (CN216 connector) and pin numbers 23, 24, 25, and 26 of MXT terminal block
		7	CPU1 detected an inconsistency of slow speed (SSP)signal.	YSU unit failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		8	CPU1 detected an inconsistency of overrun 1 signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 1, 2, 3, and 4 of YSU unit (CN203 connector)
		9	CPU1 detected an inconsistency of universal input zero signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of YSU unit (CN216 connector) and pin numbers 1, 2, 3, and 4 of MXT terminal block

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		10	CPU1 detected an inconsistency of universal input 1 signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of YSU unit (CN216 connector) and pin numbers 5, 6, 7, and 8 of MXT terminal block
		11	CPU1 detected an inconsistency of hold (HOLD) signal.	YSU unit failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		12	CPU1 detected an inconsistency of external hold (EXHOLD) signal.	YSU unit failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		13	CPU1 detected an inconsistency of external servo on (EXSVON) signal.	YSU unit failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		14	CPU1 detected an inconsistency of mode zero signal in the programming pendant.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of wiring for pin numbers B6 of YSU unit (CN209 connector) and programming pendant
				Hardware failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of programming pendant ·Replacement of programming pendant ·Replacement of YSU unit
		15	CPU1 detected an inconsistency of mode 1 signal in the programming pendant.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of wiring for pin numbers A6 of YSU unit (CN209 connector) and programming pendant
				Hardware failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of programming pendant ·Replacement of programming pendant ·Replacement of YSU unit

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		16	CPU1 detected an inconsistency of servo ON 1 signal (SFRDY1).	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		17	CPU1 detected an inconsistency of contactor 1 signal (KMMB1).	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of wiring for pin numbers A5, A6, B5, and B6 of YSU unit (CN214 connector) and contactor 1
				Contactor failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Replacement the connected contactor or relay that drives contactor
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after replacement the contactor or relay that drives contactor, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		18	CPU1 detected an inconsistency of servo ON 2 signal (SFRDY2).	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		19	CPU1 detected an inconsistency of contactor 2 signal (KMMB2).	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers A5, A6, B5, and B6 of YSU unit (CN213 connector)
				Contactor failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Replacement the connected contactor or relay that drives contactor
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after replacement the contactor or relay that drives contactor, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		20	CPU1 detected an inconsistency of servo ON 3 signal (SFRDY3).	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		21	CPU1 detected an inconsistency of contactor 3 signal (KMMB3).	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 5, 6, 7, and 8 of YSU unit (CN215 connector)
				Contactor failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Replacement the connected contactor or relay that drives contactor
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after replacement the contactor or relay that drives contactor, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		22	CPU1 detected an inconsistency of servo ON 4 signal (SFRDY4).	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		23	CPU1 detected an inconsistency of contactor 4 signal (KMMB4).	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 27, 28, 29, and 30 of YSU unit (CN215 connector)
				Contactor failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Replacement the connected contactor or relay that drives contactor
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after replacement the contactor or relay that drives contactor, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		24	CPU1 detected an inconsistency of contactor 1 enable signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 1, 2, 3, and 4 of YSU unit (CN211 connector)
		25	CPU1 detected an inconsistency of contactor 2 enable signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 5, 6, 7, and 8 of YSU unit (CN211 connector)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		26	CPU1 detected an inconsistency of external overrun 2 signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 9, 10, 11, and 12 of YSU unit (CN211 connector)
		27	CPU1 detected an inconsistency of contactor 3 enable signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 9, 10, 11, and 12 of YSU unit (CN215 connector)
		28	CPU1 detected an inconsistency of external overrun 3 signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 13, 14, 15, and 16 of YSU unit (CN215 connector)
		29	CPU1 detected an inconsistency of contactor 4 enable signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 31, 32, 33, and 34 of YSU unit (CN215 connector)
		30	CPU1 detected an inconsistency of external overrun 4 signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 35, 36, 37, and 38 of YSU unit (CN215 connector)
		31	CPU1 detected an inconsistency of SVMAIN signal.	YSU unit failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		41	CPU1 detected an inconsistency of fun alarm 1 signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers A1 and B1 of YSU unit (CN212 connector)
		42	CPU1 detected an inconsistency of fun alarm 2 signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers A2 and B2 of YSU unit (CN212 connector)
		43	CPU1 detected an inconsistency of fun alarm 3 signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers A3 and B3 of YSU unit (CN212 connector)
		44	CPU1 detected an inconsistency of WDGER1 signal.	YSU unit failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		45	CPU1 detected an inconsistency of WDGER2 signal.	YSU unit failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		46	CPU1 detected an inconsistency of YSF03_0 signal.	YSU unit failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		47	CPU1 detected an inconsistency of YSF03_1 signal.	YSU unit failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		48	CPU1 detected an inconsistency of link signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 6, 8, 31, and 33 of YSU unit (CN205 connector) and pin numbers 5, 7, 30, and 32 of YSU unit (CN206 connector)
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the wiring, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		49	CPU1 detected an inconsistency of link feedback signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 6, 8, 31, and 33 of YSU unit (CN205 connector) and pin numbers 5, 7, 30, and 32 of YSU unit (CN206 connector)
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the wiring, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		50	CPU1 detected an inconsistency of enable switch signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 12, 14, 37, and 39 of YSU unit (CN205 connector) and pin numbers 11, 13, 36, and 38 of YSU unit (CN206 connector)
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the wiring, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		51	CPU1 detected an inconsistency of enable switch feedback signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 12, 14, 37, and 39 of YSU unit (CN205 connector) and pin numbers 11, 13, 36, and 38 of YSU unit (CN206 connector)
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the wiring, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		52	CPU1 detected an inconsistency of speed mode zero signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, execute the following contents. ·Wiring confirmation of pin numbers 17, 19, 42, and 44 of YSU unit (CN205 connector) and pin numbers 18, 20, 43, and 45 of YSU unit (CN206 connector)
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the wiring, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		53	CPU1 detected an inconsistency of speed mode zero feedback signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, execute the following contents. ·Wiring confirmation of pin numbers 17, 19, 42, and 44 of YSU unit (CN205 connector) and pin numbers 18, 20, 43, and 45 of YSU unit (CN206 connector)
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the wiring, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		54	CPU1 detected an inconsistency of speed mode 1 signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, execute the following contents. ·Wiring confirmation of pin numbers 23, 25, 48, and 50 of YSU unit (CN205 connector) and pin numbers 22, 24, 47, and 49 of YSU unit (CN206 connector)
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the wiring, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		55	CPU1 detected an inconsistency of speed mode 1 feedback signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, execute the following contents. ·Wiring confirmation of pin numbers 23, 25, 48, and 50 of YSU unit (CN205 connector) and pin numbers 22, 24, 47, and 49 of YSU unit (CN206 connector)
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the wiring, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		56	CPU1 detected an inconsistency of category1 signal between YSU unit.	Cable failure	(1)Reset the alarm. (2)If the alarm occurs again, check the following connection cable. ·Connection of the cable between YSU units. ·Replece the cable between YSU units.
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		57	CPU1 detected an inconsistency of category1 feedback signal between YSU unit.	Cable failure	(1)Reset the alarm. (2)If the alarm occurs again, check the following connection cable. ·Connection of the cable between YSU units. ·Replece the cable between YSU units.
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		58	CPU1 detected an inconsistency of error signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connection confirmation of pin No. 1, 2, 14 and 15 wiring of YSU unit and YSU unit
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		59	CPU1 detected an inconsistency of error feedback ready signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of wiring for pin numbers 3, 4, 16, and 17 of YSU unit (CN207 connector) and YSU unit

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. Replacement of YSU unit Replacement of connection cable
		60	CPU1 detected an inconsistency of speed mode zero feedback signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of wiring for pin numbers 8, 9, 21, and 22 of YSU unit (CN207 connector) and function safety unit
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. Replacement of YSU unit Replacement of connection cable
		61	CPU1 detected an inconsistency of speed mode zero feedback ready signal between function safety unit.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		62	CPU1 detected an inconsistency of speed mode 1 feedback signal between function safety unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of wiring for pin numbers 12, 13, 25, and 26 of YSU unit (CN207 connector) and function safety unit
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. Replacement of YSU unit Replacement of connection cable
		63	CPU1 detected an inconsistency of speed mode 1 feedback ready signal between function safety unit.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		64	CPU1 detected an inconsistency of universal output ready signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		65	CPU1 detected an inconsistency of universal output feedback signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of YSU unit (CN216 connector) and pin numbers 45, 46, 49, and 50 of MXT terminal block
		66	CPU1 detected an inconsistency of brake release signal in the EAXA board.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers A3, A5, B3, and B5 of YSU unit (CN210 connector)
				Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of EAXA board ·Replacement of connection cable
		68	CPU1 detected an inconsistency of YSF02_REV0 signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		69	CPU1 detected an inconsistency of YSF02_REV1 signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		70	CPU1 detected an inconsistency of YSF02_0 signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		71	CPU1 detected an inconsistency of YSF02_1 signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		76	CPU1 detected an inconsistency of YSF04_REV0 signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		77	CPU1 detected an inconsistency of YSF04_REV1 signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		78	CPU1 detected an inconsistency of YSF04_0 signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		79	CPU1 detected an inconsistency of YSF04_1 signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4385	M-SAFETY INPUT CHECK ERROR(CPU1)	0	CPU1 detected an error in the programming pendant by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		1	CPU1 detected an error of enable switch signal in the programming pendant by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		2	CPU1 detected an error of emergency stop signal in robot controller by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		3	CPU1 detected an error of external emergency stop signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		4	CPU1 detected an error of external enable switch signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		5	CPU1 detected an error of safeguarding signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		6	CPU1 detected an error of full speed test signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		8	CPU1 detected an error of overrun 1 signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		9	CPU1 detected an error of universal input zero signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		10	CPU1 detected an error of universal input 1 signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		24	CPU1 detected an error of contactor 1 enable signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		25	CPU1 detected an error of contactor 2 enable signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		26	CPU1 detected an error of overrun 2 signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		27	CPU1 detected an error of contactor 3 enable signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		28	CPU1 detected an error of overrun 3 signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		29	CPU1 detected an error of contactor 4 enable signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		30	CPU1 detected an error of overrun 4 signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		48	CPU1 detected an error of link signal between YSU unit by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		50	CPU1 detected an error of enable switch signal between YSU unit by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		52	CPU1 detected an error of speed mode zero signal between YSU unit by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		54	CPU1 detected an error of speed mode 1 signal between YSU unit by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		58	CPU1 detected an error of error signal between function safety unit by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		60	CPU1 detected an error of speed mode zero feedback ready signal between function safety unit by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		62	CPU1 detected an error of speed mode 1 feedback ready signal between function safety unit by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4386	M-SAFETY OUTPUT CHECK ERROR CPU1	49	CPU1 detected no change of the feedback signal within a certain time period in link signal between YSU units.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connector connection confirmation of YSU unit (CN205/CN206)
				Rotary switch setting error	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Set rotary switch (S1) settings of the master control YSU unit to "1"; set rotary switch (S1) settings of slave control YSU unit to "2".
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the rotary switch(S1), replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		51	CPU1 detected no change of the feedback signal within a certain time period in enable switch signal between YSU units.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connector connection confirmation of YSU unit (CN205/CN206)
				Rotary switch setting error	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Set rotary switch (S1) settings of the master control YSU unit to "1"; set rotary switch (S1) settings of slave control YSU unit to "2".
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the confirming the rotary switch, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		53	CPU1 detected no change of the feedback signal within a certain time period in speed mode zero signal between YSU units.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connector connection confirmation of YSU unit (CN205/CN206)
				Rotary switch setting error	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Set rotary switch (S1) settings of the master control YSU unit to "1"; set rotary switch (S1) settings of slave control YSU unit to "2".
				YSU unit failure	(1)Reset the alarm. (2If the alarm occurs again after confirming the confirming the rotary switch, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		55	CPU1 detected no change of the feedback signal within a certain time period in speed mode 1 signal between YSU units.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connector connection confirmation of YSU unit (CN205/CN206)
				Rotary switch setting error	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Set rotary switch (S1) settings of the master control YSU unit to "1"; set rotary switch (S1) settings of slave control YSU unit to "2".
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the confirming the rotary switch, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		57	CPU1 detected no change of the feedback signal within a certain time period in category 1 stop signal between YSU units.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connector connection confirmation of YSU unit (CN205/CN206)
				Rotary switch setting error	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Set rotary switch (S1) settings of the master control YSU unit to "1"; set rotary switch (S1) settings of slave control YSU unit to "2".
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the confirming the rotary switch, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		66	CPU01 detected signal error. Concerning the brake release signal between YSU unit and EAXA board, there is no change of the feedback signal within a specified time.	Connection failure	(1)Reset the alarm. (2) If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers A2, A3, B2, and B3 of YSU unit (CN210 connector)
				YSU unit failure or Connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings.Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of EAXA board ·Replacement of connection cable

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		68	CPU01 detected signal error. Concerning the brake release signal between YSU unit and EAXA board, there is no change of the feedback signal within a specified time.	Connection failure	(1)Reset the alarm. (2) If the alarm occurs again, check the followings. • Wiring confirmation of pin numbers A2, A3, B2, and B3 of YSU unit (CN210 connector)
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. Save the CMOS.BIN before replacing the YSU unit to be safe. • Replacement of YSU unit
4387	M-SAFETY CONTACTOR STICK(CPU1)(2)	1	CPU1 detected feedback value (KMMB) did not turn ON/OFF within a certain time period from contactor 1 SERVO ON/OFF, or CPU1 detected poor connection between YSU unit and contactor.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, execute the following contents. ·Connection confirmation between YSU unit (CN214 connector) and the contactor
				Contactor failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Replacement the connected contactor or relay that drives contactor
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacement the contactor or relay that drives contactor, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		2	CPU1 detected feedback value (KMMB) did not turn ON/OFF within a certain time period from contactor 2 SERVO ON/OFF, or CPU1 detected poor connection between YSU unit and contactor.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of YSU unit (CN213 connector) and contactor
				Contactor failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Replacement the connected contactor or relay that drives contactor
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacement the contactor or relay that drives contactor, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		3	CPU1 detected feedback value (KMMB) did not turn ON/OFF within a certain time period from contactor 3 SERVO ON/OFF, or CPU1 detected poor connection between YSU unit and contactor.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of YSU unit (CN215 connector) and contactor
				Contactor failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Replacement the connected contactor or relay that drives contactor
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacement the contactor or relay that drives contactor, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		4	CPU1 detected feedback value (KMMB) did not turn ON/OFF within a certain time period from contactor 4 SERVO ON/OFF, or CPU1 detected poor connection between YSU unit and contactor.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of YSU unit (CN215 connector) and contactor
				Contactor failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Replacement the connected contactor or relay that drives contactor
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacement the contactor or relay that drives contactor, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
4388	M-SAFETY SERVO ON ERROR(CPU1)	1	CPU1 detected feedback value (SFRDY) did not turn ON/OFF within a certain time period from contactor 1 SERVO ON/OFF.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		2	CPU1 detected feedback value (SFRDY) did not turn ON/OFF within a certain time period from contactor 2 SERVO ON/OFF.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		3	CPU1 detected feedback value (SFRDY) did not turn ON/OFF within a certain time period from contactor 3 SERVO ON/OFF.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		4	CPU1 detected feedback value (SFRDY) did not turn ON/OFF within a certain time period from contactor 4 SERVO ON/OFF.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
4389	M-SAFETY SIGNAL ERR(CPU2)	0	CPU2 detected an inconsistency of emergency stop signal in the programming pendant.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, execute the following operations: ·Confirm wiring for pin numbers A3, A4, B3, and B4 of YSU unit (CN209 connector) and connector of programming pendant ·Replace the programming pendant cable ·Replace the emergency switch on the programming pendant and the cable that connects to the YSU unit
				Programming pendant failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, replace the programming pendant
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		2	CPU2 detected an inconsistency of emergency stop signal in robot controller.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Confirmation of wiring for pin numbers A1, A2, B1, and B2 of YSU unit (CN208 connector) and emergency stop SW of robot controller
				Hardware failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of the emergency stop button on the robot controller ·Replacement of YSU unit ·Replacement of the emergency stop button on the robot controller and the cable that connects to the YSU unit
		3	CPU2 detected an inconsistency of external emergency stop signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of YSU unit (CN216 connector) and pin numbers 19, 20, 21, and 22 of MXT terminal block

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		4	CPU2 detected an inconsistency of external enable switch signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of YSU unit (CN216 connector) and pin numbers 33, 34, 35, and 36 of MXT terminal block
		5	CPU2 detected an inconsistency of safeguarding signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of YSU unit (CN216 connector) and pin numbers 9, 10, 11, and 12 of MXT terminal block
		6	CPU2 detected an inconsistency of full speed test signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of YSU unit (CN216 connector) and pin numbers 23, 24, 25, and 26 of MXT terminal block
		7	CPU2 detected an inconsistency of slow speed (SSP) signal.	Connection failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		8	CPU2 detected an inconsistency of overrun 1 signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 1, 2, 3, and 4 of YSU unit (CN203 connector)
		9	CPU2 detected an inconsistency of universal input zero signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of YSU unit (CN216 connector) and pin numbers 1, 2, 3, and 4 of MXT terminal block
		10	CPU2 detected an inconsistency of universal input 1 signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of YSU unit (CN216 connector) and pin numbers 5, 6, 7, and 8 of MXT terminal block
		11	CPU2 detected an inconsistency of hold (HOLD) signal.	Connection failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		12	CPU2 detected an inconsistency of external hold (EXHOLD) signal.	Connection failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		13	CPU2 detected an inconsistency of external servo on (EXSVON) signal.	Connection failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		14	CPU2 detected an inconsistency of mode zero signal in the programming pendant.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of wiring for pin numbers B6 of YSU unit (CN209 connector) and programming pendant
				Hardware failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of programming pendant ·Replacement of programming pendant ·Replacement of YSU unit
		15	CPU2 detected an inconsistency of mode 1 signal in the programming pendant.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of wiring for pin numbers A6 of YSU unit (CN209 connector) and programming pendant
				YSU unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of programming pendant ·Replacement of programming pendant ·Replacement of YSU unit
		16	CPU2 detected an inconsistency of servo ON 1 signal (SFRDY1).	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		17	CPU2 detected an inconsistency of contactor 1 signal (KMMB1).	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of wiring for pin numbers A5, A6, B5, and B6 of YSU unit (CN214 connector) and contactor 1
				Contactor failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Replacement the connected contactor or relay that drives contactor

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after replacement the contactor or relay that drives contactor, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		18	CPU2 detected an inconsistency of servo ON 2 signal (SFRDY2).	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		19	CPU2 detected an inconsistency of contactor 2 signal (KMMB2).	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers A5, A6, B5, and B6 of YSU unit (CN213 connector)
				Contactor failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Replacement the connected contactor or relay that drives contactor
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after replacement the contactor or relay that drives contactor, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		20	CPU2 detected an inconsistency of servo ON 3 signal (SFRDY3).	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		21	CPU2 detected an inconsistency of contactor 3 signal (KMMB3).	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 5, 6, 7, and 8 of YSU unit (CN215 connector)
				Contactor failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Replacement the connected contactor or relay that drives contactor

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after replacement the contactor or relay that drives contactor, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		22	CPU2 detected an inconsistency of servo ON 4 signal (SFRDY4).	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		23	CPU2 detected an inconsistency of contactor 4 signal (KMMB4).	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 27, 28, 29, and 30 of YSU unit (CN215 connector)
				Contactor failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Replacement the connected contactor or relay that drives contactor
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after replacement the contactor or relay that drives contactor, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		24	CPU2 detected an inconsistency of contactor 1 enable signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 1, 2, 3, and 4 of YSU unit (CN211 connector)
		25	CPU2 detected an inconsistency of contactor 2 enable signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 5, 6, 7, and 8 of YSU unit (CN211 connector)
		26	CPU2 detected an inconsistency of external overrun 2 signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 9, 10, 11, and 12 of YSU unit (CN211 connector)
		27	CPU2 detected an inconsistency of contactor 3 enable signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 9, 10, 11, and 12 of YSU unit (CN215 connector)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		28	CPU2 detected an inconsistency of overrun 3 signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 13, 14, 15, and 16 of YSU unit (CN215 connector)
		29	CPU2 detected an inconsistency of contactor 4 enable signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 31, 32, 33, and 34 of YSU unit (CN215 connector)
		30	CPU2 detected an inconsistency of overrun 4 signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 35, 36, 37, and 38 of YSU unit (CN215 connector)
		31	CPU2 detected an inconsistency of SVMAIN signal.	Connection failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		41	CPU2 detected an inconsistency of fun alarm 1 signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers A1 and B1 of YSU unit (CN212 connector)
		42	CPU2 detected an inconsistency of fun alarm 2 signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers A2 and B2 of YSU unit (CN212 connector)
		43	CPU2 detected an inconsistency of fun alarm 3 signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers A3 and B3 of YSU unit (CN212 connector)
		44	CPU2 detected an inconsistency of WDGER1 signal.	Connection failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		45	CPU2 detected an inconsistency of WDGER2 signal.	Connection failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		46	CPU2 detected an inconsistency of YSF03_0 signal.	Connection failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		47	CPU2 detected an inconsistency of YSF03_1 signal.	Connection failure	(1)Reset the alarm. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		48	CPU2 detected an inconsistency of link signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 6, 8, 31, and 33 of YSU unit (CN205 connector) and pin numbers 5, 7, 30, and 32 of YSU unit (CN206 connector)
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the wiring, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		49	CPU2 detected an inconsistency of link feedback signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 6, 8, 31, and 33 of YSU unit (CN205 connector) and pin numbers 5, 7, 30, and 32 of YSU unit (CN206 connector)
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the wiring, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		50	CPU2 detected an inconsistency of enable switch signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 12, 14, 37, and 39 of YSU unit (CN205 connector) and pin numbers 11, 13, 36, and 38 of YSU unit (CN206 connector)
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the wiring, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		51	CPU2 detected an inconsistency of enable switch feedback signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 12, 14, 37, and 39 of YSU unit (CN205 connector) and pin numbers 11, 13, 36, and 38 of YSU unit (CN206 connector)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the wiring, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		52	CPU2 detected an inconsistency of speed mode zero signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 17, 19, 42, and 44 of YSU unit (CN205 connector) and pin numbers 18, 20, 43, and 45 of YSU unit (CN206 connector)
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the wiring, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		53	CPU1 detected an inconsistency of speed mode zero feedback signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 17, 19, 42, and 44 of YSU unit (CN205 connector) and pin numbers 18, 20, 43, and 45 of YSU unit (CN206 connector)
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the wiring, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		54	CPU2 detected an inconsistency of speed mode 1 signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, execute the following contents. ·Wiring confirmation of pin numbers 23, 25, 48, and 50 of YSU unit (CN205 connector) and pin numbers 22, 24, 47, and 49 of YSU unit (CN206 connector)
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the wiring, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		55	CPU2 detected an inconsistency of speed mode 1 feedback signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers 23, 25, 48, and 50 of YSU unit (CN205 connector) and pin numbers 22, 24, 47, and 49 of YSU unit (CN206 connector)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the wiring, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of connection cable
		56	CPU2 detected an inconsistency of category1 signal between YSU unit.	Cable failure	(1)Reset the alarm. (2)If the alarm occurs again, check the following connection cable. ·Connection of the cable between YSU units. ·Replece the cable between YSU units.
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		57	CPU2 detected an inconsistency of category1 feedback signal between YSU unit.	Cable failure	(1)Reset the alarm. (2)If the alarm occurs again, check the following connection cable. ·Connection of the cable between YSU units. ·Replece the cable between YSU units.
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		58	CPU2 detected an inconsistency of error signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connection confirmation of pin No. 1, 2, 14 and 15 wiring of YSU unit and YSU unit
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. Replacement of YSU unit replacement of connection cable
		59	CPU2 detected an inconsistency of error feedback ready signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of wiring for pin numbers 3, 4, 16, and 17 of YSU unit (CN207 connector) and YSU unit
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. Replacement of YSU unit Replacement of connection cable

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		60	CPU2 detected an inconsistency of speed mode zero feedback signal between YSU unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of wiring for pin numbers 8, 9, 21, and 22 of YSU unit (CN207 connector) and function safety unit
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. Replacement of YSU unit Replacement of connection cable
		61	CPU2 detected an inconsistency of speed mode zero feedback ready signal between YSU unit.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		62	CPU2 detected an inconsistency of speed mode 1 feedback signal between function safety unit.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of wiring for pin numbers 12, 13, 25, and 26 of YSU unit (CN207 connector) and function safety unit
				YSU Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. Replacement of YSU unit Replacement of connection cable
		63	CPU2 detected an inconsistency of speed mode 1 feedback ready signal between function safety unit.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		64	CPU2 detected an inconsistency of universal output ready signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		65	CPU2 detected an inconsistency of universal output feedback signal.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of YSU unit (CN216 connector) and pin numbers 45, 46, 49, and 50 of MXT terminal block
		66	CPU2 detected an inconsistency of brake release signal in the EAXA board.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers A3, A5, B3, and B5 of YSU unit (CN210 connector)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Unit or connection cable failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of EAXA board ·Replacement of connection cable
		68	CPU2 detected an inconsistency of YSF02_REV0 signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		69	CPU2 detected an inconsistency of YSF02_REV1 signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		70	CPU2 detected an inconsistency of YSF02_0 signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		71	CPU2 detected an inconsistency of YSF02_1 signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		76	CPU2 detected an inconsistency of YSF04_REV0 signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		77	CPU2 detected an inconsistency of YSF04_REV1 signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		78	CPU2 detected an inconsistency of YSF04_0 signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		79	CPU2 detected an inconsistency of YSF04_1 signal.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
4392	M-SAFETY INPUT CHECK ERROR(CPU2)	0	CPU2 detected an error of emergency stop signal in the programming pendant by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the confirming the rotary switch, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		1	CPU2 detected an error of enable switch signal in the programming pendant by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	CPU2 detected an error of emergency stop signal in robot controller by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		3	CPU2 detected an error of external emergency stop signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		4	CPU2 detected an error of external enable switch signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		5	CPU2 detected an error of safeguarding signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		6	CPU2 detected an error of full speed test signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		8	CPU2 detected an error of overrun 1 signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		9	CPU2 detected an error of universal input zero signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		10	CPU2 detected an error of universal input 1 signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		24	CPU2 detected an error of contactor 1 enable signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		25	CPU2 detected an error of contactor 2 enable signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		26	CPU2 detected an error of overrun 2 signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		27	CPU2 detected an error of contactor 3 enable signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		28	CPU2 detected an error of overrun 3 signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		29	CPU2 detected an error of contactor 4 enable signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		30	CPU2 detected an error of overrun 4 signal by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		48	CPU2 detected an error of link signal between YSU unit by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		50	CPU2 detected an error of enable switch signal between YSU unit by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		52	CPU2 detected an error of speed mode zero signal between YSU unit by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		54	CPU2 detected an error of speed mode 1 signal between YSU unit by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		58	CPU2 detected an error of error signal between function safety unit by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		60	CPU2 detected an error of speed mode zero feedback ready signal between function safety unit by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		62	CPU2 detected an error of speed mode 1 feedback ready signal between function safety unit by the self-diagnostic check.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
4393	M-SAFETY OUTPUT CHECK ERROR CPU2	49	CPU2 detected no change of the feedback signal within a certain time period in link signal between YSU units.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connector connection confirmation of YSU unit (CN205/CN206)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Rotary switch setting error	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Set rotary switch (S1) settings of the master control YSU unit to "1"; set rotary switch (S1) settings of slave control YSU unit to "2".
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the confirming the rotary switch, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		51	CPU2 detected no change of the feedback signal within a certain time period in enable switch signal between YSU units.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connector connection confirmation of YSU unit (CN205/CN206)
				Rotary switch setting error	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Set rotary switch (S1) settings of the master control YSU unit to "1"; set rotary switch (S1) settings of slave control YSU unit to "2".
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the confirming the rotary switch, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		53	CPU2 detected no change of the feedback signal within a certain time period in speed mode zero signal between YSU units.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connector connection confirmation of YSU unit (CN205/CN206)
				Rotary switch setting error	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Set rotary switch (S1) settings of the master control YSU unit to "1"; set rotary switch (S1) settings of slave control YSU unit to "2".
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the confirming the rotary switch, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		55	CPU2 detected no change of the feedback signal within a certain time period in speed mode 1 signal between YSU units.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connector connection confirmation of YSU unit (CN205/CN206)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Rotary switch setting error	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Set rotary switch (S1) settings of the master control YSU unit to "1"; set rotary switch (S1) settings of slave control YSU unit to "2".
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the confirming the rotary switch, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		57	CPU2 detected no change of the feedback signal within a certain time period in category 1 stop signal between YSU units.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connector connection confirmation of YSU unit (CN205/CN206)
				Rotary switch setting error	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Set rotary switch (S1) settings of the master control YSU unit to "1"; set rotary switch (S1) settings of slave control YSU unit to "2".
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the confirming the rotary switch, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		66	CPU02 detected signal error. Concerning the brake release signal between YSU unit and EAXA board, there is no change of the feedback signal within a specified time.	Connection failure	(1)Reset the alarm. (2) If the alarm occurs again, check the followings. ·Wiring confirmation of pin numbers A4, A5, B4, and B5 of YSU unit (CN210 connector)
				YSU unit failure or Connection cable failure	(1) Reset the alarm. (2) If the alarm occurs again, check the followings.Save the CMOS.BIN before replacing the YSU unit to be safe. ·Replacement of YSU unit ·Replacement of EAXA board ·Replacement of connection cable

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4394	M-SAFETY CONTACTOR STICK(CPU2)	1	CPU2 detected feedback value (KMMB) did not turn ON/OFF within a certain time period from contactor 1 SERVO ON/OFF, or CPU2 detected poor connection between YSU unit and contactor.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, execute the following contents. ·Connection confirmation between YSU unit (CN214 connector) and the contactor
				Contactor failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Replacement the connected contactor or relay that drives contactor
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacement the contactor or relay that drives contactor, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		2	CPU2 detected feedback value (KMMB) did not turn ON/OFF within a certain time period from contactor 2 SERVO ON/OFF, or CPU2 detected poor connection between YSU unit and contactor.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of YSU unit (CN213 connector) and contactor
				Contactor failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Replacement the connected contactor or relay that drives contactor
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacement the contactor or relay that drives contactor, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		3	CPU2 detected feedback value (KMMB) did not turn ON/OFF within a certain time period from contactor 3 SERVO ON/OFF, or CPU2 detected poor connection between YSU unit and contactor.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of YSU unit (CN215 connector) and contactor
				Contactor failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Replacement the connected contactor or relay that drives contactor

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacement the contactor or relay that drives contactor, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		4	CPU2 detected feedback value (KMMB) did not turn ON/OFF within a certain time period from contactor 4 SERVO ON/OFF, or CPU2 detected poor connection between YSU unit and contactor.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ·Connected confirmation of YSU unit (CN215 connector) and contactor
				Contactor failure	(1)Reset the alarm. (2)If the alarm occurs again after confirming the connection, execute the following contents. ·Replacement the connected contactor or relay that drives contactor
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacement the contactor or relay that drives contactor, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
4395	M-SAFETY SERVO ON ERROR(CPU2)	1	CPU2 detected feedback value (SFRDY) did not turn ON/OFF within a certain time period from contactor 1 SERVO ON/OFF.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		2	CPU2 detected feedback value (SFRDY) did not turn ON/OFF within a certain time period from contactor 2 SERVO ON/OFF.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		3	CPU2 detected feedback value (SFRDY) did not turn ON/OFF within a certain time period from contactor 3 SERVO ON/OFF.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		4	CPU2 detected feedback value (SFRDY) did not turn ON/OFF within a certain time period from contactor 4 SERVO ON/OFF.	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
4396	M-SAFETY TOOL SIGNAL ERROR(CPU1)	1	CPU1 detected an inconsistency of feedback2 signal (KMMB2).	Setting error	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ・When the CN213 connector of the YSU unit is short circuit, check the value of parameter S2C1097.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the insertion and connection of the followings. ・YSU-CN213 connector.
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacing the YPU unit, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		2	CPU1 detected an inconsistency of feedback3 signal (KMMB3).	Setting error	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ・When the CN215 connector(1-20 pin) of the YSU unit is short circuit, check the value of parameter S2C1097.
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the insertion and connection of the followings. ・YSU-CN215 connector.
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacing the YPU unit, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		3	CPU1 detected an inconsistency of feedback4 signal (KMMB4).	Setting error	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ・When the CN215 connector(21-40 pin) of the YSU unit is short circuit, check the value of parameter S2C1097.
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the insertion and connection of the followings. ・YSU-CN215 connector.
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacing the YPU unit, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		10	CPU1 detected an inconsistency of feedback2 signal (SFRDY2).	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacing the YPU unit, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		20	CPU1 detected an inconsistency of feedback3 signal (SFRDY3).	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacing the YPU unit, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		30	CPU1 detected an inconsistency of feedback4 signal (SFRDY4).	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacing the YPU unit, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4397	M-SAFETY TOOL SIGNAL ERROR(CPU2)	1	CPU2 detected an inconsistency of feedback2 signal (KMMB2).	Setting error	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ・When the CN213 connector of the YSU unit is short circuit, check the value of parameter S2C1097.
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the insertion and connection of the followings. ・YSU-CN213 connector.
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacing the YPU unit, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		2	CPU2 detected an inconsistency of feedback3 signal (KMMB3).	Setting error	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ・When the CN215 connector(1-20 pin) of the YSU unit is short circuit, check the value of parameter S2C1097.
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the insertion and connection of the followings. ・YSU-CN215 connector.
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacing the YPU unit, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		3	CPU2 detected an inconsistency of feedback4 signal (KMMB4).	Setting error	(1)Reset the alarm. (2)If the alarm occurs again, check the followings. ・When the CN215 connector(21-40 pin) of the YSU unit is short circuit, check the value of parameter S2C1097.
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the insertion and connection of the followings. ・YSU-CN215 connector.
				YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacing the YPU unit, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		10	CPU2 detected an inconsistency of feedback2 signal (SFRDY2).	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacing the YPU unit, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
		20	CPU2 detected an inconsistency of feedback3 signal (SFRDY3).	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacing the YPU unit, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		30	CPU2 detected an inconsistency of feedback4 signal (SFRDY4).	YSU unit failure	(1)Reset the alarm. (2)If the alarm occurs again after replacing the YPU unit, replace the YSU unit. Save the CMOS.BIN before replacing the YSU unit to be safe.
4400	NOT READY (ARITH)	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. (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	The arithmetic processing section is not ready for JOG operation.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	The arithmetic processing section is not ready for the playback operation.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4401	SEQUENCE TASK CONTR ERROR	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. (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	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		30	An error occurred in job data change.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4402	UNDEFINED COMMAND (ARITH)			Software operation error occurred	(1)Reset the alarm, and then try again. (2)Check the following settings. ·The base-axis position must be registered for the system with base-axis MOVL P00001 BP00001 (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4404	ARITHMETIC ERROR	8	Interpolation such as linear and circular interpolation cannot be performed with this manipulator.	Setting error	Check the following settings. ·Change the step (move instruction), where the alarm occurred, to MOVJ.
		10	The setting of the form data for Flip/No Flip is not "B-axis Angle. "	Setting error	Check the following settings. ·Set "1" to "S2C658: Type data detail settings".
		11	An attempt was made to pass the B-axis zero degree position (singular area).	Setting error	Check the following settings. ·Check the teaching position of the job so that the manipulator does not pass the B-axis zero degree position (singular area).
4406	GROUP AXIS CONTROL ERROR	1	Designation error for master and slave	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Slave designation error	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Slave interpolation error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	No designation of master axis	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		9	Designation error of occupation control for JOG motion	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4407	TWO STEPS SAME POSITION (CIRC)			Setting error	Check the following settings. ·Check the settings for teaching position of circular interpolation steps so that each point is different.
4408	TWO STEPS SAME POSITION (SPLINE)			Setting error	Check the following settings. ·Check the settings for teaching position of spline interpolation step so that each point is different.
4409	TWO STEPS SAME POSITION (3 STEPS)			Setting error	Check the following settings. ·Check the settings for three taught points to create an user coordinate system so that each point is different.
4410	TWO STEPS SAME POSITION (WEAV)			Setting error	Check the following settings. ·Check the settings for taught points (start, end, and reference points) so that each point is different.
4411	TEACH ERROR (SPLINE)			Setting error	Check the following settings. ·Check the settings for the teaching position of spline interpolation section so that the distance between the teaching points is even.
4412	IMPOSSIBLE LINEAR MOTION(L/U)			Setting error	Check the following settings. ·Perform the teaching again to make the form of L- and U-axes same at start point and end point. ·Use a MOVJ instruction again.
4413	IMPOSSIBLE LINEAR MOTION(S/L)			Setting error	Check the following settings. ·Perform the teaching position again to make the form of S- and L-axes same at start point and end point. Use a MOVJ instruction again.
4414	EXCESSIVE SEGMENT (LOW/HIGH)		Sub Code: Control group and axis	Setting error	(1)Reduce the speed in the step where the alarm occurred. (2)Change the move instruction to joint interpolation (MOVJ). * Be careful to the peripheral interference since its movement changes.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4416	PULSE LIMIT (MIN./MAX.)		Sub Code: Control group and axis	Setting error	Check the following settings. ·Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is within the motion range.
4418	CUBE LIMIT (MIN./MAX.)		Sub Code: Control group and XYZ	Setting error	Check the following settings. ·Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is within the motion range.
4420	SPECIAL SOFTLIMIT (MIN./MAX.)		Sub Code: Control group and axis	Setting error	Check the following settings. ·Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is within the motion range.
4422	MECHANICAL INTERFERENCE (MIN./MAX.)		Sub Code: Control group and axis	Setting error	Check the following settings. ·Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is within the motion range.
4424	SPECIAL MECHANICAL INTRF (MIN./MAX.)		Sub Code: Control group and axis	Setting error	Check the following settings. ·Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is within the motion range.
4426	PULSE MECHANICAL LIMIT(MIN./MAX.)		Sub Code: Control group and axis	Setting error	Check the following settings. ·Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is within the motion range.
4428	SEGMENT CONTROL ERROR	1	RT-buffer control command error	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Segment-receiving control command error	Software operation error occurred	(1)Reset the alarm, and then try again. (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	No bank priority	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		8	RT-buffer tracking option error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4429	WRONG SPECIFIED CONTROL GROUP	1	Control group not designated	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Slave control-group error	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Master control-group error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		8	Control-group error for a tool calibration file	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4430	CPU COMMUNICATION ERROR	1	Interrupt processing error between MOTION section and system control section	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	Interrupt processing error between MOTION section and SL#1	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Interrupt processing error between MOTION section and SL#2	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Interrupt processing error between MOTION section and CV#1	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Interrupt processing error between MOTION section and CV#2	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Interrupt processing error between MOTION section and PS#1	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	Interrupt processing error between MOTION section and PS#2	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4431	JHM ERROR	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. (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	No job handle was found.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4432	INSTRUCTION INTERPRETER ERROR	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. (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	Destination (variable) tag arrangement is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		6	An error occurred in block separation processing of intermediate code.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		17	Variable data type is not defined.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		18	An instruction is included with incorrect intermediate code in expression instruction.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		27	Arithmetic stack used for expression operation is empty.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4433	UNDEFINED GLOBAL VARIABLE	0	The set data for byte type variable area is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)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 set data for integer type variable area is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	The set data for double-precision integer-type variable area is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	The set data for real type variable area is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4435	UNDEFINED LOCAL-VARIABLE	0	The byte type variable is not defined.	Setting error	Check the following settings. ·Set the number of local variables to be used in the job header.
		1	The integer type variable is not defined.	Setting error	Check the following settings. ·Set the number of local variables to be used in the job header.
		2	The double-precision integer-type variable is not defined.	Setting error	Check the following settings. ·Set the number of local variables to be used in the job header.
		3	The real-number type variable is not defined.	Setting error	Check the following settings. ·Set the number of local variables to be used in the job header.
		4	The character-string type variable is not defined.	Setting error	Check the following settings. ·Set the number of local variables to be used in the job header.
		5	The robot-axis position-type variable is not defined.	Setting error	Check the following settings. ·Set the number of local variables to be used in the job header.
		6	The base-axis position-type variable is not defined.	Setting error	Check the following settings. ·Set the number of local variables to be used in the job header.
		7	The station-axis position-type variable is not defined.	Setting error	Check the following settings. ·Set the number of local variables to be used in the job header.
4436	LESS THAN 3 STEP (CIRCULAR)			Setting error	Check the following settings. ·Perform teaching so that circulation interpolation steps are continuous three points or more.
4437	LESS THAN 3 STEPS (SPLINE)			Setting error	Check the following settings. ·Perform teaching so that spline interpolation steps are continuous three points or more.
4438	UNDEFINED JOB			Setting error	Check the following settings. ·Check if the CALL/JUMP destination job is registered. If the job is not registered, delete the JUMP instruction where an alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4439	UNDEFINED LABEL			Setting error	Check the following settings. ·Check if the JUMP destination label is registered. If the label is not registered, delete the JUMP instruction where alarm occurred.
4440	UNDEFINED RETURN JOB			Setting error	Check the following settings. ·If there is an illegal RETinstruction in the start job, delete the RET instruction. ·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.
4441	LACK OF LOCAL-VARIABLE AREA			Setting error	Check the following settings. ·Reduce the number of local variables to be used.
4444	UNSUCCESSFUL FINE POSITIONING		Sub Code: Bit specification of axis where error occurred	Effect of external force	Check the following settings. ·Move the manipulator by the axis operation, etc. to remove the external force of axis where alarm occurred.
4445	DATA PRESET ERROR	1	The token for prereading processing could not be obtained.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	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. (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	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	A_BANK conversion has not been completed.	Software operation error occurred	(1)Reset the alarm, and then try again. (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 . (3)If the alarm occurs again even though you do above (2), save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4446	OVER VARIABLE LIMIT	0	The variable value exceeded the limit.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		1	The value for the binary (0/1) data type variable exceeded the limit.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		2	The value for the signed 1-byte data type variable is less than the minimum value.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		3	The value for the unsigned 1-byte data type variable is less than the minimum value.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		4	The value for the signed 2-byte data type variable is less than the minimum value.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		5	The value for the unsigned 2-byte data type variable is less than the minimum value.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		6	The value for the signed 4-byte data type variable is less than the minimum value.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		7	The value for the unsigned 4-byte data type variable is less than the minimum value.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		8	The value for the real-number 4-byte data type variable is less than the minimum value.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		14	The value for the character-string type variable is less than the minimum value.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		32770	The value for the signed 1-byte data type variable exceeded the maximum value.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		32771	The value for the unsigned 1-byte data type variable exceeded the maximum value.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		32772	The value for the signed 2-byte data type variable exceeded the maximum value.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		32773	The value for the unsigned 2-byte data type variable exceeded the maximum value.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		32774	The value for the signed 4-byte data type variable exceeded the maximum value.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		32775	The value for the unsigned 4-byte data type variable exceeded the maximum value.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		32776	The value for the real-number 4-byte data type variable exceeded the maximum value.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		32782	The value for the character-string type variable exceeded the maximum value.	Setting error	Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
4447	DEFECTIVE TAUGHT POINT(CIRC)			Setting error	Check the following settings. ·Check the settings for three teaching points so that circular interpolation steps do not lie in a straight line.
4448	WEAVING CONTROL ERROR	1	Weaving control-group designation error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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	Check the following settings. ·Reset the value 0.1 seconds or more.
		5	When the speed is specified by frequency in the weaving file, zero or the negative value is set for the frequency.	Setting error	Check the following settings. ·Reset the value 0.1 Hz or more.
		6	When the timer mode is specified in the weaving file, a negative value is set for the timer value.	Setting error	Check the following settings. ·Set a positive value for the timer value.
		7	For triangle or L-type weaving, zero is set for the vertical or horizontal distance.	Setting error	Check the following settings. ·Set a positive value for the vertical and horizontal distance.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		8	The coordinate control axis designation for the reference point is different from actual control axis.	Setting error	Check the following settings. ·Match the control group designation of the wall point and weaving execution.
		9	The distance between the point P and the TCP could not be calculated in wrist weaving.	Setting error	Check the following settings. ·Set the correct dimensions in the tool data.
		10	The distance between the point P and the TCP could not be calculated in circular wrist weaving.	Setting error	Check the following settings. ·Set the correct dimensions in the tool data.
		11	The Y-direction element of circular coordinate system for circular wrist weaving could not be calculated.	Setting error	Check the following settings. ·Check the settings for wall and horizontal direction.
		12	The X-direction element of circular coordinate system for circular wrist weaving could not be calculated.	Setting error	Check the following settings. ·Check the settings for wall and horizontal direction.
		14	Weaving basic-orientation calculation error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		16	Weaving synchronization file number selection range error	Setting error	Check the following settings. ·Check the number of the weaving synchronizing file for use.
4449	UNMATCHED POSN VAR DATA TYPE			Setting error	Check the following settings. ·Match the data type of position type variable.
4450	FILE NO. ERROR	1	An error occurred in tool file number check.	Setting error	Check the following settings. ·Confirm that the specified tool file number is 0 to 63.
		2	An error occurred in user coordinate file number check.	Setting error	Check the following settings. ·Confirm that the specified user coordinate file number is 1 to 63.
		3	An error occurred in calibration file number check between the manipulators.	Setting error	Check the following settings. ·Confirm that the specified robot calibration file number is 1 to 32.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		4	An error occurred in tool calibration file number check.	Setting error	Check the following settings. ·Confirm that the specified tool file number is 0 to 63.
		5	An error occurred in reference point number check.	Setting error	Check the following settings. ·Confirm that the specified robot calibration file number is 1 to 8.
		7	An error occurred in check for welding start condition file number.	Setting error	Check the following settings. ·Confirm that the specified welding condition start file number is 1 to 48.
		8	An error occurred in check for welding end condition file number.	Setting error	Check the following settings. ·Confirm that the specified welding condition end file number is 1 to 48.
		9	An error occurred in conveyor characteristic file number check.	Setting error	Check the following settings. ·Confirm that the specified conveyor condition file number is 1 to 6.
		10	An error occurred in press characteristic file number check.	Setting error	Check the following settings. ·Confirm that the specified press characteristic file number is 0 to 3.
		12	An error occurred in conveyor calibration file number check.	Setting error	Check the following settings. ·Confirm that the specified conveyor calibration file number is 1 to 6.
		13	An error occurred in argument number check.	Setting error	Check the following settings. ·Confirm that the argument number is 1 to 16.
		14	An error occurred in check for motor gun characteristic file number.	Setting error	Check the following settings. ·Confirm that the specified servo gun characteristic file number is 1 to 24.
4451	UNDEFINED REFERENCE POINT		Sub Code: Reference point number in binary	Setting error	Check the following settings. ·Set the reference point.
4452	STACK MORE THAN 10 (JOB CALL)			Setting error	Check the following settings. ·Change the job configuration so that the number of nests for CALL instruction is twelve or less.
4453	OVER VARIABLE NO.		The variable number is out of range. Sub Code: The variable number which an attempt was made to use	Setting error	Check the following settings. ·Correct the job using the variable number within the range.
4454	UNDEFINED POWER SOURCE COND.			Setting error	Check the following settings. ·Complete the settings for the arc welding characteristic file.
4455	UNDEFINED ARC START COND FILE			Setting error	Check the following settings. ·Complete the settings for the welding start condition file.
4456	UNDEFINED ARC END COND FILE			Setting error	Check the following settings. ·Complete the settings for the welding end condition file.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4457	WRONG WELDER SELECTION			Setting error	Check the following settings. ·Check the settings for the reference unit of the welding voltage.
4459	EXCESSIVE INSTRUCTION EQUATION			Setting error	Check the following settings. ·Separate the operation expression, shorten the expression, and then check the settings for the job.
4460	ZERO DIVIDED OCCURRENCE			Setting error	Check the following settings. ·Do not divide by zero.
4461	UNDEFINED AUTO-WELD RELEASE COND			Setting error	Check the following settings. ·Check the settings for the number of times of welding release condition.
4462	UNDEFINED POSITION FOR ARC RETRY			Setting error	Check the following settings. ·Check the settings for the move instruction following ARCON instruction.
4463	PARITY ERROR			Setting error	Check the following settings. ·Check the settings for the parity data of the user I/O group.
4464	OVER BCD RANGE			Setting error	Check the following settings. ·Correct the BCD data so that it is within the limit.
4465	OVER BINARY RANGE (PARITY CHECK)			Setting error	Check the following settings. ·Correct the binary data so that it is within the limit.
4466	OFFLINE UNDEFINED COMMAND (ARITH)	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4467	USER COORD STEP NOT ENOUGH			Setting error	Check the following settings. ·Correct the JOB that the number of steps will be three or more.
4468	ROBOT CALIBRATION DATA ERROR	1	The calibration between manipulators cannot be executed for this model.	Setting error	Check the following settings. ·Do not use a coordinated motion with this manipulator.
		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. (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	Incorrect designation of the control group for master group	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		5	Incorrect designation of the occupation control group for calibration data	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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	Check the following settings. ·Teach the data for calibration so that each point is different.
		8	Among three points in the slave-group's calibration data, two or three points are on the same point.	Setting error	Check the following settings. ·Teach the data for calibration so that each point is different.
		9	The number of the teaching points for calibration data is insufficient.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4469	ROBOT CALIBRATION FRAME ERROR	1	The calibration between manipulators cannot be executed for this model.	Setting error	Check the following settings. ·The calibration function between manipulators cannot be used for this model.
		2	The master group and the slave group are set to the same group.	Setting error	Check the following settings. ·Set the different groups for the master group and the slave group.
		3	Incorrect designation of the control group for master group	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4470	ROBOT CARIB STEP NOT ENOUGH			Setting error	Check the following settings. ·Check the settings for number of the job steps

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4471	ROBOT CALIBRATION DATA ERROR	1	Incorrect number of teaching points for tool calibration	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Incorrect designation of the occupation control group for calibration data	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Incorrect designation of the enabling control group for calibration data	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4472	ARITHMETIC ERR (COMPACT RMT WELD)	1	The reference point is not set.	Setting error	Check the following settings. ·Set the reference point.
		2	The start point and end point are on the same point.	Setting error	Check the following settings. ·Change the teaching positions so that the start point and end point are different.
		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°	Setting error	Check the following settings. ·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.
4473	ARITHMETIC ALARM RESET ERROR			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4474	WRONG CONTROL GROUP AXIS		Sub Code:The related control-group	Setting error	Check the following settings. ·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. ·Don't start the job which including control group under already operation by "PSTART" instruction.
4475	CANNOT EXECUTE JOB (NO ROBOT)			Setting error	Check the following settings. ·Add the robot axis to the control-group of the job.
4476	CANNOT EDIT (EDIT LOCK JOB)	0	An attempt was made to change the tag data.	Setting error	Check the following settings. ·Release the prohibition.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		1	An attempt was made to change the speed tag data.	Setting error	Check the following settings. ·Release the prohibition.
		2	An attempt was made to change the board thickness tag data.	Setting error	Check the following settings. ·Release the prohibition.
4477	SELECT ERROR (APPLICATION)		Sub Code: Application number	Setting error	Check the following settings. ·Set the application to a specified robot by the application selection of maintenance mode.
4480	SELECT ERROR (SENSOR 1)		Sub Code:Sensor number	Setting error	Check the following settings. ·Select the option function for the specified robot in the option function selection of maintenance mode.
4484	WRONG PORT NO. (ANALOG OUTPUT)		Sub Code: Application number	Setting error	Check the following settings. ·Set following value to the AxP010 parameter. For arc: 1 Arc + arc: 3 Three arc: 5 Four arc: 7
4485	WRONG SELECTION (SENSOR)			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4486	PATH OVER			Setting error	Check the following settings. ·Set the path over radius within the allowable range.
4487	WRONG MECH PARAMETER FILE			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4489	DEFECTIVE TAUGHT POINT(CUTTING)	1	The C- and W-axis position at the cutting start position is not zero pulse.	Setting error	Check the following settings. ·Check the settings for the cutting start position (zero pulse).
		2	Zero is set for the cutting radius.	Setting error	Check the following settings. ·Check the settings for radius (a value bigger than zero).
		3	The cutting machine axis is not mounted.	Setting error	Check the following settings. ·The CUT instruction can be used for the manipulator with small-circle cutting axis only.
		4	This manipulator cannot perform a hexagonal cutting motion.	Setting error	Check the following settings. ·Select an other cutting form.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4490	DEFECTIVE TAUGHT POINT(ENDLESS)	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	Check the following settings. ·To perform an interpolation motion such as MOVL and MOVC after an Endless rotation, execute an MRESET instruction beforehand.
		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 following settings. ·Check the parameter setting that designates the Endless rotation axis.
		3	An attempt was made to execute the Endless function although the endless axis was not designated.	Setting error	Check the following settings. ·Check the parameter setting that designates the Endless rotation axis.
		4	The Endless axis exceeded the maximum pulse value (+-536870911).	Setting error	Check the following settings. ·Set the rotation amount so that the Endless axis does not exceed the maximum pulse value.
4491	CORRECTIONAL DIRECTION ERROR	1	Control-group designation error for correcting-direction preparation	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Designation error for the correcting-direction coordinates	Software operation error occurred	(1)Reset the alarm, and then try again. (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	When "any direction" is set for the correcting direction, the correction coordinates is not prepared.	Setting error	Check the following settings. ·Check the settings for the correcting direction with the reference point (REFP).
		4	When "any direction" is set for the correcting direction, the reference points (REFP) are taught on the same point.	Setting error	Check the following settings. ·Check the settings for the reference points (REFP) so that each point is different.
		5	Designation error for the coordinated motion control axis at the reference point	Setting error	Check the following settings. ·Match the control group designation of the wall point and weaving execution.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4492	POSITION CORRECTION ERROR	1	Data unmatched between the correction amount data and the job data: 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. (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	Data unmatched between the correction amount data and the job data: 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4493	OVER TOOL FILE NO.			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4494	DEFECTIVE TAUGHT POINT(WEAV)	1	The weaving start point and end point are on the same point.	Setting error	Check the following settings. ·Check the settings for the positions so that the weaving start point and end point are different.
		2	Among the weaving start point, end point, and reference point, two or three points are on the same point.	Setting error	Check the following settings. ·Check the settings for the positions so that the weaving start point, end point, and reference point are different.
4495	UNDEFINED ROBOT CALIBRATION		Sub Code: Control group which calibration is not completed	Setting error	Check the following settings. ·Before using the coordinated motion, execute the calibration between manipulators.
4496	PARAMETER ERROR	1	The setting of the manipulator number is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Zero is set for the resolution.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		3	Zero is set in the feedback pulse parameter.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	The setting of L-axis ball-screw data is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	The setting of U-axis ball-screw data is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Zero or a negative value is set for MAXPPS.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Zero or a negative value is set for the maximum acceleration speed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Zero or a negative value is set for the maximum deceleration speed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	The setting of the manipulator number is incorrect. An undefined type is designated.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		12	The designation of the user coordinates number is incorrect. A number out of the setting range is set.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		13	The reduction ratio ≤ 0 is output.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		14	Zero or a negative value is set for the spring constant.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		15	Zero or a negative value is set for the motor inertia.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		16	Zero or a negative value is set for the speed calculation constant.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		17	Dividing number setting error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		18	The setting of allowable torque for the speed reducer is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		19	The setting of allowable torque for the motor is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		20	The manipulator type is not applicable for torque acceleration/ deceleration.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		21	Zero or a negative value is set for the balancer.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		22	The angle of hexagon set for the CUT instruction is out of the range "0 degree < angle < 60 degrees."	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		23	Encoder type designation error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		24	Observer sampling time error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		25	Two-degree-of-freedom system Kp value error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		26	The setting of torque acceleration/ deceleration designation parameter is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		27	Observer polarity setting error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		28	The inertia value error for the shift value calculation	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		29	Observer attenuation constant error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		30	Torque estimation parameter error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		31	The segment clock error occurred when the PV loop is 1 ms.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		32	Non-robot axis observer selection error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		33	Zero is set for the response time constant.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		34	Efficiency data error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		35	Zero is set for the averaging time constant.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		36	Torque limit ratio data error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		37	Coulomb friction data error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		38	Kinematic friction coefficient data error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		39	The setting in the optimized acceleration/deceleration designation parameter is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		40	An uninstalled function is designated.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		41	The dynamics-model calculation at the optimized acceleration/ deceleration is invalid.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		42	Zero is set for the inertia of dynamics fixed model.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		43	Designation error for dynamics-model calculation type	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		44	The optimized acceleration/ deceleration control of speed limit function is disabled.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		45	The axis designation parameter for the speed limit function is not set.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		46	The setting in the mode designation parameter for the speed limit function is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		48	Zero or a negative value is set in the speed adjustment ratio parameter for the speed limit function.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		51	Zero is set for the dimension information "a3" for the SKR manipulator.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		53	The parameter setting for the Cartesian manipulator X-axis data is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		54	The parameter setting for the Cartesian manipulator Y-axis data is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		55	The setting for the Dual-arm manipulator is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		57	The setting of expanded check-point designating bits for the arm interference check is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		60	Zero or a negative value is set for the sphere at the arm interference check point.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		86	The special link JOG operation cannot be used with this manipulator.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		91	The setting of the deceleration speed for the path-priority control is less than zero.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		93	The link parameter for the cutting device is not set.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		96	Zero is set for the dimension information "a2" for the Arc Cell Torch Arm type manipulators.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		134	The higher-order acceleration/ deceleration is prohibited when using operation acceleration/ deceleration	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		138	Notch filter supported acceleration and deceleration turning: Notch filter function setting error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		139	Notch filter supported acceleration and deceleration turning: Notch filter (z2) setting error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4497	DEFECTIVE TAUGHT POINT(CALIB)	1	Some of the teaching points for master-group are on the same point.	Setting error	Check the following settings. ·Perform the teaching again so that the teaching points are different from one another.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	Some of the teaching points for slave-group are on the same point.	Setting error	Check the following settings. ·Perform the teaching again so that the teaching points are different from one another.
		3	The 2nd-axis positions of C3, C4, and C5 of station axes are not the same.	Setting error	Check the following settings. ·Perform the teaching again so that the 2ndaxis positions of C3, C4, and C5 of the station axes are the same.
		4	The 1st-axis positions of C1, C2, and C3 of station axes are not the same.	Setting error	Check the following settings. ·Perform the teaching again so that the 1staxis positions of C1, C2, and C3 of station axes are the same.
		5	The 2nd-axis positions of C1, C2, and C3 of station axes are the same.	Setting error	Check the following settings. ·Perform the teaching again so that the teaching positions are different from one another.
		6	The 1st-axis rotation direction of C3, C4, and C5 of station axes are not the same.	Setting error	Check the following settings. ·Perform the teaching again so that the 1staxis rotation direction of C3, C4, and C5 of station axes are the same.
		7	The 1st-axis (elevation axis) positions of C1, C2, and C3 of station axes are not the same.	Setting error	Check the following settings. ·Perform the teaching again so that the 1staxis (elevation axis) positions of C1, C2, and C3 of station axes are the same.
		8	The 1st-axis (elevation axis) positions of C3, C4, and C5 of station axes are not the same.	Setting error	Check the following settings. ·Perform the teaching again so that the 1staxis (elevation axis) positions of C3, C4, and C5 of station axes are the same.
4498	CANNOT EXECUTE JOB (NO GRP AXIS)		An attempt was made to execute an instruction that could not be executed in a job without control group.	Setting error	Check the following settings. ·Check the settings for the job instruction with control group.
4499	UNDEFINED POSITION VARIABLE		Sub Code: The variable number	Setting error	Check the following settings. ·Check the settings for the position type variable.
4500	UNDEFINED USER FRAME		Sub Code: User coordinate number	Setting error	Check the following settings. ·Check the settings for the user coordinate.
4501	OUT OF RANGE (PARALLEL PROCESS)		Sub Code: Task number	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4502	SL BOARD ON-LINE ERROR		The option board was detected not to operate normally at power ON.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP02 board. Save the CMOS.BIN before replacing the board to be safe.
4505	UNDEFINED POSITION FOR ARC ON			Setting error	Check the following settings. ·Register a step before the ARCON instruction.
4506	UNDEFINED POS FOR RESTART RETURN			Setting error	Check the following settings. ·Check the settings for the job.
4507	REFP POS ERROR (SEARCH MOTION)			Setting error	Check the following settings. ·Perform the teaching again so that the search start point and the motion target point are not the same. ·Increase the distance between the search start point and the motion target point.
4508	SPECIFIED ERROR (COORDINATE)	0	The specified coordinate system does not exist.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.
		1	Designation error of the master tool coordinate system. This coordinate system cannot be used.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.
		2	Designation error of the tool coordinate system. This coordinate system cannot be used.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.
		3	Designation error of the direction of travel coordinate system (for a shared function). This coordinate system cannot be used.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.
		4	Designation error of the any direction coordinate system (for a shared function). This coordinate system cannot be used.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.
		5	Designation error of the approximation tool coordinate system (for a shared function). This coordinate system cannot be used.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		6	Designation error of the conveyor coordinate system. This coordinate system cannot be used.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.
		8	Designation error of the COMARC coordinate system. This coordinate system cannot be used.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.
		9	Designation error of the power sensor coordinate system. This coordinate system cannot be used.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.
		10	Designation error of the cylindrical coordinate system. This coordinate system cannot be used.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.
		11	Designation error of the coordinate system for the external reference point. This coordinate system cannot be used.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.
		12	Designation error of the coordinate system for 3D shifting. This coordinate system cannot be used.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.
		13	Designation error of the KOMATSU tool Z-direction operation coordinate system. This coordinate system cannot be used.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.
		14	Designation error of the KOMATSU tool JOG operation coordinate system. This coordinate system cannot be used.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.
		15	Designation error of the coordinate system at IMOV for 3D shifting. This coordinate system cannot be used.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		16	Designation error of the H-LINK type cylindrical coordinate system. This coordinate system cannot be used.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.
		17	Designation error of the FSER_FRAME type cylindrical coordinate system. This coordinate system cannot be used.	Setting error	Check the following settings. ·Check the settings for the coordinate system which can be used.
4509	MFRAME ERROR	1	The master-tool user coordinates could not be prepared.	Setting error	Check the following settings. ·Execute the MFRAME instruction in coordinated job when you make the master tool user coordinate.
4510	CANNOT EXECUTE INST RUCTION (SQRT)			Setting error	Check the following settings. ·Check the job settings so that the second argument of SQRT instruction does not become negative.
4511	OUT OF RANGE (DROP-VALUE)		Sub Code: Control group exceeding the allowable value	Setting error	Check the following settings. ·Confirm the load setting to the robot.
4512	TWO STEPS SAME LINE (3 STEPS)			Setting error	Check the following settings. ·Check the settings so that the teaching points are not aligned in a straight line.
4513	EXCESSIVE SEGMENT (SAFETY 1): LOW/HIGH		Sub Code: Control group and axis	Setting error	Check the following settings. ·Reduce the speed of the step where the alarm occurred. ·Change the move instruction to joint interpolation (MOVJ). * Be careful to the peripheral interference since its movement changes.
4515	EXCESSIVE SEGMENT (SAFETY 2): LOW/HIGH		Sub Code: Control group and axis	Setting error	Check the following settings. ·Reduce the speed of the step where the alarm occurred. ·Change the move instruction to joint interpolation (MOVJ). * Be careful to the peripheral interference since its movement changes.
4517	SEARCH MONITOR SET ERROR (SERVO)		Sub Code: The related control-group	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4518	SEARCH MON RELEASE ERR (SERVO)		Sub Code: The related control-group	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4520	AXIS BLOCKING		Sub Code: Control group	Setting error	Check the following settings. ·Check the settings for the general-purpose input signal set in the parameter.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4521	WRONG JOB TYPE		Sub Code 0000_0001: A robot job was started from the concurrent job at CALL/JUMP instruction execution. 0000_1001: A concurrent job was started from the robot job at CALL/JUMP instruction execution. 1000_0001: A system job was started from the robot job at CALL/JUMP instruction execution.	Setting error	Check the following settings. ·Check the settings for the job to be started.
4522	TAG DATA CHANGE PROCESS ERROR	0	An attempt was made to change the contents of variable tag data.	Setting error	Check the following settings. ·The variable tag cannot be changed. Correct the job so as not to use the variable tag.
		1	An attempt was made to change the tag data for the job prohibited from being edited.	Setting error	Check the following settings. ·Release the prohibition.
		2	An error occurred at instruction read-in.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	The tag is not registered.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	The tag data was variable specification.	Setting error	Check the following settings. ·The variable tag cannot be changed. Correct the job so as not to use the variable tag.
		5	The value which it was made to change exceeded the limit of tag data.	Setting error	Check the following settings. ·Check the contents of changing data.
		7	An error occurred at tag data change.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4524	CANNOT EXECUTE INST (COUCUR JOB)			Setting error	Check the following settings. ·Delete an instruction that cannot be executed such as move instruction in the concurrent job.
4527	UNDEFINED PORT NO.(AOUT)			Setting error	Check the following settings. ·Check the settings for the specified analog output port number.
4528	SYNTAX ERROR	1	A syntax error was found in the IF sentence.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4529	TWIN COORDINATED ERROR	1	A job without control group was started by SYNC instruction.	Setting error	Check the following settings. ·Check the control group setting of the job to be started by SYNC.
		2	A job only with robot axes was started by SYNC instruction.	Setting error	Check the following settings. ·Check the control group setting of the job to be started by SYNC.
		3	A job only with master control group axes was started by SYNC instruction.	Setting error	Check the following settings. ·Check the control group setting of the job to be started by SYNC.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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	Check the following settings. ·Match the system number specification of the master between the job to be started by SYNC.
4530	CONVEYOR TRACKING ERROR	1	The base axis specification is other than 1 or 2 for conveyor characteristic file.	Setting error	Check the following settings. ·Set the base axis specification of conveyor characteristic file to either 0, 1, or 2.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	No robot axis in the job for robot axis tracking	Setting error	Check the following settings. ·Correct the job setting so that the robot axis tracking is executed in the job where robot axis exists.
		3	No base axis in the job for base axis tracking	Setting error	Check the following settings. ·Correct the job settings so that the base axis tracking is executed in the job where base axis exists.
		4	The conveyor board number and conveyor characteristic file number used are incorrect.	Setting error	Check the following settings. ·Check the specification of conveyor condition file number for use.
		5	There was no conveyor start position data at prereading processing.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	No base axis in the job for arc tracking	Setting error	Check the following settings. ·Correct the job setting so that the arc tracking is executed in the job where robot axis exists.
4531	UNDEFINED CONVEYOR COND FILE		Sub Code: Conveyor characteristic file number	Setting error	Check the following settings. ·Set "Use state" of conveyor characteristic file to "1: Use."
4532	CONVEYOR SPEED DOWN		Sub Code: Conveyor number	Setting error	Check the following settings. ·Correct the "Conveyor Lowest Speed" set in the conveyor characteristic file.
4533	ARITHMETIC ERROR (CV TRACKING)	1	Designation error of the conveyor tracking control-group	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Designation error of the user coordinates for the conveyor tracking	Software operation error occurred	(1)Reset the alarm, and then try again. (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	An attempt was made to use the conveyor tracking function with the slave manipulator at coordinate motion.	Setting error	Check the following settings. ·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.
		4	Zero is set for the resolution for the turn-table synchronization.	Setting error	Check the following settings. ·Check the settings for the resolution.
4534	TORQUE INTERFERENCE			Setting error	Check the following settings. ·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·) ·Reduce the speed in the step where the alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4535	TARGET VARIABLE TYPE UNMATCHED	0	An attempt was made to obtain the byte type system variable by the other type variable.	Setting error	Check the following settings. ·Obtain as the byte type variable.
		1	An attempt was made to obtain the integer type system variable by the other type variable.	Setting error	Check the following settings. ·Obtain as the integer type variable.
		2	An attempt was made to obtain the double-precision integer-type system variable by the other type variable.	Setting error	Check the following settings. ·Obtain as the double-precision integer-type variable.
		3	An attempt was made to obtain the real-number type system variable by the other type variable.	Setting error	Check the following settings. ·Obtain as the real-number type variable.
		4	An attempt was made to obtain the character-string type system variable by the other type variable.	Setting error	Check the following settings. ·Obtain as the character-string type variable.
4538	ROBOT AXIS TRACKING INVALID	0	"SYMOVJ" instruction is executed at robot-axis tracking.	Setting error	(1)Check the following settings. ·Do not use "SYMOVJ" instruction in robot axis tracking.
4539	CORNER R CONTROL ERROR	1	The Corner-R motion cannot be used for coordinated motion.	Setting error	Check the following settings. ·Do not use the Corner-R motion for coordinated motion.
		2	An attempt was made to execute the Corner-R motion for the same point.	Setting error	Check the following settings. ·Check the settings for the teaching so that the start step and end step are not on the same point.
		3	The Corner-R zone is taught on a straight line.	Setting error	Check the following settings. ·Check the settings for teaching so that the Corner-R zone is not on a strait line.
		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. ·Make the setting for the Corner-R radius small. ·Make the moving amount of the Corner-R start step long. ·Make the moving amount of the Corner-R start end long.
		5	The Corner-R motion cannot be used for coordinated motion (with master manipulators).	Setting error	Check the following settings. ·Do not use the Corner-R motion for master manipulators at coordinated motion.
		6	The Corner-R motion cannot be used for MOVC, MOVS, and EIMOVC instructions.	Setting error	Check the following settings. ·Use a MOVL instruction when using the Corner-R motion.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		7	The Corner-R motion is disabled during weaving.	Setting error	Check the following settings. ·Do not perform weaving when using the Corner-R motion.
		8	Different tool numbers are set in a Corner-R zone (for the Corner-R middle step and end step).	Setting error	Check the following settings. ·Use the same tool number in a Corner-R zone.
		9	The Corner-R motion is disabled when the higher-order acceleration/deceleration is specified.	Setting error	Check the following settings. ·Disable the higher-order acceleration/deceleration when using the Corner-R motion.
		17	The Corner-R motion is disabled during conveyor tracking.	Setting error	Check the following settings. ·Do not perform the conveyor tracking when using the Corner-R motion.
		18	Arithmetic error occurred when calculating the acceleration and deceleration time for the Corner-R operation	Setting error	Check the following settings. ·Do not perform the conveyor tracking when using the Corner-R motion.
		19	Arithmetic error occurred when calculating acceleration and deceleration during test run in consideration of servo delay for the Corner-R motion.	Setting error	Check the following settings. ·Do not perform the conveyor tracking when using the Corner-R motion.
4540	JOB QUE EMPTY ERROR			Setting error	Check the following settings. ·Use "CALL QUE" under the condition that the job data is set to the job queue.
4541	INVALID INPUT STRING(VAL)	1	There was no character string representing a constant in character string to be extracted at VAL instruction execution.	Setting error	Check the following settings. ·Check the settings for the data of the character string to be extracted.
4542	MRESET ERROR	1	An MRESET instruction was executed while no endless axis was designated.	Setting error	Check the following settings. ·Set the endless axis.
4543	STACK LESS THAN 0 (JOB CALL)		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4544	MID$ INST ERROR	1	The first character of character string to be extracted is null at MID$ instruction execution.	Setting error	Check the following settings. ·Check the settings for the data of the character string to be extracted.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	The extraction start position exceeds the character string length at MID$ instruction execution.	Setting error	Check the following settings. ·Check the settings for the data of the character string to be extracted.
4546	CANNOT EXCUTE SYSTEM JOB		Sub Code: System number	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4547	PRIMITIVE ERROR		Sub Code: Error code	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4548	CANNOT OPERATE SPECIFIED EVENT		Sub Code: System number	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4549	NOT EXECUTION OF INIEVNT		Sub Code: System number	Setting error	Check the following settings. ·Execute an INIEVNT instruction before executing an event related instruction.
4550	CANNOT EXECUTE INST (USER JOB)		Sub Code: System number	Setting error	Check the following settings. ·This instruction cannot be executed in the system job. Correct the job so that the instruction is executed in the user job.
4551	CANNOT MEASURE TIP INSTALL COEF		Sub Code: Gun number	Setting error	Check the following settings. ·Execute the "SVGUNCL TWC-AE", and then execute the "SVGUNCL TWC=BE".
4565	SOFTWARE UNMATCH	1	The multi-layer welding function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	The observer function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	The TURBO function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		4	The COMARC function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	The layer motion function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		13	The servo hand function (for handling application) is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		17	The bending function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4566	USER FRAME MAKING ERROR	1	The teaching points are incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	The teaching points for user-coordinate turning are incorrect.	Setting error	Check the following settings. ·Among three taught points in the teaching position. Teach the three points again so that they do not lie in the straight line.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		5	Position data error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4567	CANNOT MONITOR DISTANCE			Setting error	Check the following settings. ·Change the interpolation instruction to MOVL/MOVC. ·Change the setting so that the arc retry or restart operation does not perform.
4568	UNDEFINED PRESS COND DATA FILE		Sub Code: Press characteristic file number	Setting error	Check the following settings. ·Set the status of press characteristic file to be used in the job to "Used State."
4569	UNDEFINED PRESS RESOLUTION DATA		Sub Code: Press characteristic file number	Setting error	Check the following settings. ·Set the press resolution data to be used in the job.
4571	SERVO FLOAT MODE RELEASE ERR			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4572	NO SERVO GUN CONTROL GROUP			Setting error	Check the following settings. ·Set the "motor gun axis" in the control group setting of maintenance mode.
4573	SPOT WELDER NO. ERROR		Sub Code: Welder number	Setting error	Check the following settings. ·Correct the welder number set in the gun characteristic file.
4574	SPOT WELD COMPLETE TIME LIMIT		Sub Code: Welder number	Setting error	Check the following settings. ·Turn ON the timer contactor power. ·If the response from the timer takes too long time due to the system layout, increase the timeout time.
4575	ERROR IN WELD START TIMING SET			Setting error	Check the following settings. ·Check the settings for the "WST" tag. ·Check the settings for the pressure file.
4576	ERR IN MOTOR GUN CONT MODE			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4577	ERR IN MOTOR GUN MODE RELEASE			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4578	SPOT WELD ERROR		Sub Code: Welder number	Setting error	Check the following settings. ·Check the settings for the timer conductor where the welding error occurred.
4579	ANTICIPATION CONTROL ERROR	1	No availability in anticipation control	Setting error	Check the following settings. ·Maximum simultaneous execution number of anticipation control is five. Correct the settings for the job so that it is within five.
		2	The anticipation data exceeded the maximum length.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4580	ANTICIPATION DISTANCE NOT ENOUGH			Setting error	Check the following settings. ·Operate the manipulator to the start position of the step where the alarm occurred, and then re-execute.
4581	DEFECTIVE ANTICIPATION OT FILE	1	Incorrect setting of OT output number for anticipation output file	Setting error	Check the following settings. ·Check the setting value of OT output number.
		2	Incorrect setting of OG output number for anticipation output file	Setting error	Check the following settings. ·Check the setting value of OG output number.
4583	CANNOT EXECUTE GUN TYPE			Setting error	Check the following settings. ·Check the settings for the motion mode set to the gun.
4584	STRWAIT TIME LIMIT			Setting error	Check the following settings. ·Check the cause such as defective limit switch.
4585	SERVO PG ON ERROR			Connection failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·Each axes encoder cable
4587	MOTOR GUN CHANGE ERROR	1	A GUNCHG instruction was executed in the system configuration that did not allow the gun change function.	Setting error	Check the following settings. ·Validate the gun change parameter.
		2	A GUNCHG/PICK instruction was executed while the motor gun motor was servo ON.	Setting error	Check the following settings. ·Execute GUNCHG/PICK instruction when the motor gun motor is servo OFF.
		3	A GUNCHG/PICK instruction was executed while the ATC was in unchuck status.	Setting error	Check the following settings. ·Execute GUNCHG/PICK instruction when the ATC is in chuck status.
		4	A GUNCHG/PLACE instruction was executed while the ATC was in unchuck status.	Setting error	Check the following settings. ·Execute GUNCHG/PLACE instruction when the ATC is in chuck status.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·The encoder cable of motor gun
		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. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·The encoder cable of motor gun
		7	The gun number specified by the GUNCHG instruction did not agree with the gun identification signal.	Setting error	Check the following settings. ·Change the gun characteristic file number specified by GUNCHG instruction to object gun number. ·Change the gun identification signal so that it become the objective gun number.
		8	The 1st gun axis selection signal is not set when executing the twin-wrist gun change.	Setting error	Check the following settings. ·Check the 1st gun axis selection signal setting.
		9	The right and left gun axis selection signals were duplicated when executing the twin-wrist gun change.	Setting error	Check the following settings. ·Check the setting for the gun axis selection signal.
		10	The control group for gun axis is not set in the gun change job.	Setting error	Check the following settings. ·Check the settings for the control-group of the job.
		11	Multiple manipulators are not set in the gun change job.	Setting error	Check the following settings. ·Check the settings for the control-group of the job.
4589	ABRASION BASIS POS UNSETTING			Setting error	Check the following settings. ·Resister the reference position of wear correction.
4590	NO SERVO HAND CONTROL GROUP			Setting error	Check the following settings. ·Set the "servo hand axis" in the control group setting of maintenance mode.
4591	SPEED CTRL MODE SET ERR(SERVO)			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4592	SPEED CTRL MODE CANCEL ERR(SV)			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4593	SVHAND CTRL MODE SET ERR(SERVO)			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4594	SVHND CTRL MODE CANCEL ERR(SV)			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4595	CAN'T DO FIXED FORM CUT MOTION	1	The setting for radius is incorrect. (1) For a circle, it is incorrectly set as: radius ≤ 0, radius < minimum radius value, or radius > maximum radius value. (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. ·Setting of the radius data
		2	The setting for width is incorrect. (1) For a rectangle, it is incorrectly set as: width < 1.0, width > sqrt (maximum diameter2 − height2), or width > maximum diameter. (2) It is incorrectly set as: width < 0, width > maximum diameter −2 * radius.	Setting error	Check the following settings. ·Setting of the width data
		3	The setting for height is incorrect. (1) For a rectangle, it is incorrectly set as: height > maximum diameter, height < minimum diameter/2, or height > sqrt (maximum diameter^2 - width^2).	Setting error	Check the following settings. ·Setting of the height data
		4	The setting for the corner radius is incorrect. (1) For a rectangle, it is incorrectly set as: corner radius > width/2 or corner radius > height/2.	Setting error	Check the following settings. ·Setting of the corner radius

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		5	The setting for overlap is incorrect. (1) For a rectangle, it is incorrectly set as overlap > width/2. (2) For a circle, it is incorrectly set as overlap > ABS (2π * radius). (3) For an ellipse, it is incorrectly set as overlap > π * radius +ABS (width/2).	Setting error	Check the following settings. ·Setting of the overlap data
		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. ·Setting of the cutting speed
		7	Coordinated motion cannot be used with the Form Cutting motion.	Setting error	Check the following settings. ·Do not use the coordinated motion.
		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. ·The setting of the minimum diameter parameter (S1CxG063) for the Form Cutting motion.
		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. ·The setting of the maximum diameter parameter (S1CxG063) for the Form Cutting motion.
		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	Check the following settings. ·Execute the FORMAPR instruction.
		11	The Cut file setting of the FORMAPR instruction is different from that of the FORMCUT instruction.	Setting error	Check the following settings. ·The Cut file settings of FORMAPR and FORMCUT instructions must be same.
		12	A FORMAPR instruction was used for the conventional FORMCUT instruction.	Setting error	Check the following settings. ·The FORMAPR instruction cannot be used for the conventional FORMCUT instruction. ·Validate the new FORMCUT instruction.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		13	A form other than a circle, rectangle, and ellipse was designated for the conventional FORMCUT instruction.	Setting error	Check the following settings. ·A form other than a circle, rectangle, and ellipse cannot be designated for the conventional FORMCUT instruction. ·Validate the new FORMCUT instruction.
		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. ·Setting of the radius data
		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. ·Setting of the teaching
		93	The averaging time at special circular interpolation motion is too short.	Setting error	Check the following settings. ·Moving distance ·Motion speed
		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. ·Setting of the reference point 2
		100	The arc center position is not set for the special circular interpolation motion.	Setting error	Check the following settings. ·Check the settings for the reference point 1 as the arc center position.
4596	FORMCUT ERROR	1	An attempt was made to re-execute the FORMCUT instruction after interrupting it.	Execute condition failure	Check the following settings. ·Re-execute the move instruction executed before the FORMCUT instruction, and then execute the FORMCUT instruction again.
4597	OFFLINE POSITION DATA CONVERT ERR	1	Incorrect information of reference position data for offline position data conversion	Software operation error occurred	(1)Reset the alarm, and then try again. (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	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		3	Incorrect reference-point data for offline position data conversion	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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	Check the following settings. ·The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.
		5	Incorrect pulse incremental value for offline position data conversion	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Incorrect Cartesian incremental value for offline position data conversion	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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	Check the following settings. ·The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		18	No reference point is specified for the offline position data conversion.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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	Check the following settings. ·The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.
		21	The expansion positions for the mirror shift function could not correctly be converted at the offline position data conversion.	Setting error	Check the following settings. ·The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4598	PAINTOUT ERROR	1	The parameter setting for the universal input group number is incorrect.	Setting error	Check the following settings. ·Check the settings for the AxP011.
4599	SERVO COMMAND ERROR		An attempt was made to issue the command while the servo control processing has not completed. Sub Code: Servo CPU bit number	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4603	WIRE STICKING		Sub Code: Welder number	Setting error	Check the following settings. ·Remove the cause of wire stick.
4604	SPECIFIED ERR(ABSO RECOVER AXIS)			Setting error	Check the following settings. ·Registration for the home position correction data.
4605	SETTOOL ERROR	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. ·Correct the job so that the setting value of tag is allowable value. ·Set the allowance amount of the tool data automatic setting function maximum deviation (S3C1192) to large value.
4606	LACK OF GLOBAL VARIABLE AREA			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4607	WRONG EXECUTION OF MACRO INST	1	The execution macro job is not set.	Setting error	Check the following settings. ·Check the settings for execution macro job.
		2	The interrupt macro job is not set.	Setting error	Check the following settings. ·Check the settings for interrupt macro job.
		3	An attempt was made to start the job that could not be started by the macro instruction.	Setting error	Check the following settings. ·Check the settings for macro job.
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4608	WRONG EXECUTION OF GETARG INST	1	The job argument is not set.	Setting error	Check the following settings. ·Check the settings for jobs.
		2	No number of the specified job argument	Setting error	Check the following settings. ·Check the settings for jobs.
		3	The data types of job argument disagreed.	Setting error	Check the following settings. ·Check the settings for jobs.
4609	MEMOPLAY ERROR	2	The memory play file was being used in another system.	Setting error	Check the following settings. ·Check the setting of the used memory play file number.
		5	The control group in the memory play file did not agree with the control group of execution job.	Setting error	Check the following settings. ·Check the control group setting of the used memory play file.
		6	An attempt was made to clear the memory play file by a CLEAR instruction before having executed a MEMOF instruction.	Setting error	Check the following settings. ·Execute the MEMOF instruction, and then execute the CLEAR instruction.
4610	MEMOPLAY SAMPLING ERROR	1	Failed to read the memory play sampling data.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Failed to write the memory play sampling data.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Failed to seek the memory play sampling data.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Incorrect mode setting at memory play sampling	Setting error	Check the following settings. ·Check the settings for the memory play mode.
		6	Incorrect designation of the control group at memory play sampling	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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 following settings. ·Check the number of the memory play file for use.
		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 following settings. ·Check the number of the memory play file for use.
		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 following settings. ·Check the number of the memory play file for use.
		10	It started reproducing though it did not record.	Setting error	Check the following settings. ·Record and then play.
		11	Correction amount to record is out of the allowable range.	Setting error	Check the following settings. ·Correct the position of object workpieces so that the correction amount fall within allowable range.
		12	The number of recorded correction-amount exceeded the limit.	Setting error	Check the following settings. ·Correct the job so that the movement section of memory play object is shorter.
		13	Memoplay file Create error (REC)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		14	Memoplay debug error C_BANK.func_ctrl (initial)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		16	Memoplay debug error C_BANK RT_BANK.func_ctrl (continue)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4611	OVER OPTON INST EXECUTION LIMIT			Setting error	Check the following settings. ·Check the settings for the OPTON instruction. OPTON instruction can use only the function to five simultaneously.
4612	TSYNC ERROR		Sub code: the number of synchronizations of the first executed TSYNC	Setting error	Check the following settings. ·Check the settings for the number of synchronizations of the TSYNC instruction.
4613	SERVO SEALER GUN CONTROL ERROR	1	The function designation parameter is not set.	Setting error	Check the following settings. ·Check the settings for the function designation parameter.
		2	No sealer gun axis exists at the job for which the sealer gun control was attempted to be executed.	Setting error	Check the following settings. ·Check the settings for the control-group of the job.
		3	No robot axis exists at the job at which an attempt was made to execute sealer gun control.	Setting error	Check the following settings. ·Check the settings for the control-group of the job.
		4	Incorrect designation of the control method for sealer gun control	Setting error	Check the following settings. ·Set either "1" or "2" for PRM1 control method designation of the OPTON instruction.
		5	Incorrect designation of the control method for sealer gun control	Setting error	Check the following settings. ·If "1" is set for PRM1 of the OPTON instruction, set the PRM2 needle position designation to a value between 0 and 100.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		6	Incorrect designation of the sealing width for sealer gun control	Setting error	Check the following settings. ·If "2" is set for PRM1 of the OPTON instruction, set PRM2 sealing width designation to a value between 0 and 30.
4614	UNDEFINED SEALERGUN COND FILE			Setting error	Check the following settings. ·Check the settings for servo sealer gun condition file.
4615	I/O AXIS OPERATING		An attempt was made to command a job whose control group was in I/O axis motion.	Setting error	Check the following settings. ·Does not the I/O axis motion executed for the control group that executing the job· ·Does not the job executed for the control group that operating by the I/O axis motion· 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.
4616	AXIS SHIFT ERROR	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. (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	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. (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	The calibration file number for axis shifting function is out of the applicable range.	Setting error	Check the following settings. ·Correct the settings for the OPTON instruction tag so that value of the file number specification is 1 to 32.
4617	S/U IMPOSSIBLE MOVE (L/R POS)	1	For the CSL15D manipulator, the motion speed of S- and U-axes exceeded the upper limit.	Setting error	Check the following settings. ·Reduce the teaching speed of S- and U-axes. ·Teach the positions of L- and R-axes again so that S- and U-axes can move.
		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	Check the following settings. ·Teach the positions of L- and R-axes again so that S- and U-axes can move.
4618	SHIFT INST EXECUTE ERROR	1	For the tool shift with Euler angle +-90 degrees, the shift value for axes other than Y-axis is set.	Setting error	Check the following settings. ·Check if the shift value is setting for Y-axis only.
4619	UNDEFINED JOB ENTRY TABLE		Sub Code: Designated registration number	Setting error	Check the following settings. ·Check the settings for the job registration table.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4620	ARM (TOOL) INTERFERENCE		Sub Code: Bit specification of interfered axis	Setting error	Check the following settings. ·Check the teaching position setting of manipulators.
4621	WELD COMPLETE SIGNAL ERROR		Sub Code: Welder number	Setting error	Check the following settings. ·Check the settings for welding completion signal.
4622	SELF-INTERFERENCE		Sub Code: Manipulator number	Setting error	Check the following settings. ·Check the teaching position setting of manipulators.
4623	WRONG EXECUTION OF GETPOS INST	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 following settings. ·Check the settings for the GETPOS instruction.
		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 following settings. ·Check the settings for the GETPOS instruction.
		3	The specified step did not exist.	Setting error	Check the following settings. ·Check the settings for the GETPOS instruction.
4624	PLUG VOLUME SETTING ERROR			Setting error	Check the following settings. ·Check the setting for the amount of fillings.
4625	WRONG EXECUTION OF LOADDB INST	1	No file	Software operation error occurred	(1)Reset the alarm, and then try again. (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	No directory	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-2	File presence error	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Incorrect file name	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-11	Open mode error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-30	Card controller access error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-35	No specified partition number	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-43	Card not applicable for ATA	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-45	Media error (not fixed disk)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4626	IMPOSSIBLE S-AXIS MOV (IN SPHERE)			Setting error	Check the following settings. ·Check the settings for the limit distance for S-axis rotation center motion (S1CG067).
4627	GUN RECOGNITION SIGNAL OFF		Sub Code: Gun number	Setting error	Check the following settings. ·Check the settings for the gun identification signal.
4628	WRITE VARIABLE NO. MULTI SETTING		Sub Code: Duplicated variable number	Setting error	Check the following settings. ·Check the settings for the written destination variable numbers.
4629	GROUP CHANGE ERROR	1	The group change parameter was invalid.	Setting error	Check the following settings. ·Validate the group change parameter.
		2	The GRPCHG instruction was executed while the external axis motor was servo ON.	Setting error	Check the following settings. ·Execute the GRPCHG instruction when the external axis motor was servo OFF.
		3	The GRPCHG instruction was executed in unchuck status.	Setting error	Check the following settings. ·Execute the GRPCHG instruction in chuck status.
		4	The group identification signal was not received.	Setting error	Check the following settings. ·Check the settings for group identification signal.
		5	The specified control group number and the group identification number were unmatched.	Setting error	Check the following settings. ·Check the settings for the specified control group number.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		6	The encoder PG power supply was OFF when the GRPCHG was ON.	Setting error	Check the following settings. ·Turn ON the encoder PG power supply when GRPCHG is ON.
		7	The encoder PG power supply was ON when the GRPCHG was OFF.	Setting error	Check the following settings. ·Turn OFF the encoder PG power supply when GRPCHG is OFF.
		8	The control group that corresponded to the received group identification signal did not exist.	Setting error	Check the following settings. ·Check the settings for group identification signal.
4630	DUPLICATED GUN NUMBER		Sub Code: The overlapped gun number	Setting error	Check the following settings. ·Check the settings for gun numbers.
4631	DEFECTIVE OPERATION VELOCITY		Sub Code: Control group and axis	Setting error	Check the following settings. ·Check if the speed is hold down by the speed override and special operations etc.
4632	UNDEFINED LNR SCALE FILE		Sub Code: Linear scale characteristic file number	Setting error	Check the following settings. ·Complete the settings for the linear scale condition file.
4633	FOLLOWING ERROR	1	An error occurred when executing a FOLLOW instruction. An attempt was made to re-execute the FOLLOW instruction after interrupting it.	Setting error	Check the following settings. ·Re-execute the move instruction executed before the FOLLOW instruction, and then execute the FOLLOW instruction again.
4634	FOLLOWING SPEED OVER			Setting error	Check the following settings. ·Reduce the bending speed. ·Reduce the manipulator moving distance.
4635	CANNOT EXECUTE COMMON JOB		Sub Code: The related control-group	Setting error	Check the following settings. ·Check the settings for control group specified by the CALL instruction.
4636	THICKNESS ERROR		Sub code: Gun number	Setting error	Check the following settings. ·Weld the spot by thickness within allowable range.
4637	TRACK CHG WORK IN/ NOT NOT FOUND		Sub Code: Conveyor characteristic file number	Setting error	Check the following settings. ·Check the workpiece presence/absence and data settings for the synchronization section.
4638	TRACKING CHG WORK ID NOT FOUND		Sub Code: Conveyor characteristic file number	Setting error	Check the following settings. ·Check the workpiece presence/absence and data settings for the synchronization section.
4639	SYMOVJ INST EXECUTE ERROR	2	The conveyor moving amount is not specified for the SYMOVJ motion.	Setting error	Check the following settings. ·Set the conveyor moving amount for the SYMOVJ motion.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4640	WRONG EXECUTION OF PSTART INST	1	No axis data of control group to be disconnected	Setting error	Check the following settings. ·Check the settings for PSTART instruction.
		2	An attempt was made to disconnect a control group other than the occupation control group during prereading processing.	Setting error	Check the following settings. ·Check the settings for PSTART instruction.
		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 following settings. ·Check the settings for PSTART instruction.
4641	CANNOT EXECUTE JOB (SEPARATE GRP)		Sub Code: The disconnected control group used by a move instruction	Setting error	Check the following settings. ·Correct the teaching so that the control group disconnected by itself is not to operate for move instruction of own system.
4644	SPOT WELDER I/F ERROR(ASW)	8	The controller could not send an instruction to the welder because the welder was busy in processing.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·DENGENSHA welding I/F board ·NADEX DeviceNet cable
		9	Welding current error at welding is completed successfully.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		102	The specified welder number (system) could not be found.	Setting error	Check the following settings. ·Confirm the specified welder number (system) and the setting.
4645	NOT PERMIT FIXED-WEAV ON SWVON			Setting error	Check the following settings. ·Check the settings for jobs.
4650	TRQ CLEAR ERROR			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4651	PALLETIZING EXECUTE ERROR	1	The setting of the palletizing condition configuration file is incomplete.	Setting error	Check the following settings. ·Set the palletizing condition setting file to "Completed."
		4	Palletize completion universal output number range exceeds the limit.	Setting error	Check the following settings. ·Change the palletize completion universal output signal number of the palletizing condition setting file in the user output signal point of contact number.
		5	During the palletize start instruction execution, the palletize start instruction is executed again (double execution).	Setting error	Check the following settings. ·Delete the palletize start instruction in the palletize section.
		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 the following settings. ·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.
		7	Palletize completion universal output signal is turned ON at palletize start instruction execution.	Setting error	Check the following settings. ·Reset the palletize completion universal output signal.
		8	Palletize end instruction is not registered.	Setting error	Check the following settings. ·Register the palletizing end instruction.
4652	TRQ MEASURE MODE SET ERR(SV)			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4653	TRQ MEASURE MODE CANCEL ERR(SV)			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4654	WRONG EXECUTION OF SETREG INST	1	An attempt was made to change the value of the register currently used by TMR/CNT.	Setting error	Check the following settings. ·The SETREGM instruction cannot change the register values used in TMR/CNT. Correct the setting of tag that specifies register number of SETREG instruction.
4655	WRONG EXECUTION OF GETREG INST	1	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4656	WRONG EXECUTION OF SETPRM INST	1	An attempt was made to change a parameter other than the cube-related parameter.	Setting error	Check the following settings. ·The SETPRM instruction cannot change the parameter values other than the parameter related to the cube. Correct the setting of tag that specifies parameter number of SETPRM instruction.
		2	The SETPRM instruction was executed while another system was in execution.	Setting error	Check the following settings. ·The SETPRM instruction cannot execute while another system is operating. Correct the job.
4657	WVADJ ERROR	1	The correction amplitude value did not fall in the limit range.	Setting error	Check the following settings. ·Correct the settings for "groove width correction limit value" specified for S2C1259 and 1260.
4658	OVER SPEED LIMIT	1	The taught speed was going to exceed the limit during the multi arm simultaneous operation.	Setting error	Check the following settings. ·Reduce the teaching speed of the step where the alarm occurred to the speed limit or less.
4657	WVADJ ERROR	1	The correction amplitude value did not fall in the limit range.	Setting error	Check the following settings. ·Correct the settings for "groove width correction limit value" specified for S2C1259 and 1260.
4660	TIP DRESS WATCH CANCEL ERROR			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4661	MEMORY ERROR (PRESS COND FILE)		Sub Code: File number	Data error	(1)Reset the alarm. (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.
				YCP01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP01 board, and then insert the CF card which inserted original YCP01 board into the new YCP01 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF board. Save the CMOS.BIN before replace the board. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
4667			Sub Code: Gun pressure file number	Setting error	Check the following settings. ·Match the number of "END WAIT" in the gun pressure file, and the number of "Welding Conditions(WTM)" in the instruction.
4669	DETECT BRAKE SLIP		Sub Code: Signifies the axis in which the alarm occurred	Module failure(motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor. (3)If the alarm of "external brake" is occurred. , replace the external brake.
				Setting error	(1)Reset the alarm. (2)Check the following settings. • Check torque value
4670	INSUFFICIENT NUM OF SAMPLE DATA		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Lengthen the measurement section.
4671	SAMPLE BUFFER OVER FLOW		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Shorten the measurement section.
4672	BASIC SPEED UNREACHED		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Increase the speed specification value of a measurement job or set a small value for BASICV. Or set a small value for BASICT, or lengthen the measurement section.
4673	MAX TRQ UNDETECTED		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Set a large value for the BASICT, and then check again.
4676	BROKEN FAN FUSE			Connection failure	(1)Reset the alarm. (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.
4675	ERRSVCPU SIGNAL ERROR		Sub Code: 0000_0001 SV#1 0000_0010 SV#2 0000_0100 SV#3 0000_1000 SV#4 0001_0000 SV#5 0010_0000 SV#6 0100_0000 SV#7 1000_0000 SV#8	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·CN210 YSU unit
4676	BROKEN FAN FUSE	1	Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check if the short circuit or the ground fault has happened to the fan power supplying cable.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check if the short circuit or the ground fault has happened to the fan power supplying cable.
		3	Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check if the short circuit or the ground fault has happened to the fan power supplying cable.
		4	Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check if the short circuit or the ground fault has happened to the fan power supplying cable.
		5	Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check if the short circuit or the ground fault has happened to the fan power supplying cable.
		6	Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check if the short circuit or the ground fault has happened to the fan power supplying cable.
		7	Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check if the short circuit or the ground fault has happened to the fan power supplying cable.
		8	Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check if the short circuit or the ground fault has happened to the fan power supplying cable.
		101	FAN ALARM4:DIRECT-IN(SYSTEM)1	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check if the short circuit or the ground fault has happened to the fan power supplying cable.
		102	FAN ALARM5:DIRECT-IN(SYSTEM)2	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check if the short circuit or the ground fault has happened to the fan power supplying cable.
		103	FAN ALARM6:DIRECT-IN(SYSTEM)3	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check if the short circuit or the ground fault has happened to the fan power supplying cable.
		104	FAN ALARM7:DIRECT-IN(SYSTEM)4	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check if the short circuit or the ground fault has happened to the fan power supplying cable.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4677	IMPOSSIBLE LINEAR MOTION		Sub Code: Signifies the YSU unit number in which the alarm occurred	Setting error	Check the following settings. ·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. ·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. ·Change the teaching move instruction to MOVJ instruction. * Be careful to the peripheral interference since its movement changes.
4678	SPOT MONITOR DATA ERROR		Sub Code: Internal control error in software	Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, initialize the database of spot weld history. (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4682	MOTION RANGE LIMIT INTERFERENCE		Sub Code: Manipulator number	Setting error	Check the following settings. ·Check the teaching position setting of manipulators.
4683	AXIS MOTION RANGE LIMIT OVER (MIN./MAX.)		Sub Code: Control group and axis	Setting error	Check the following settings. ·Check the teaching position setting of manipulators.
4684	INTERPOLATION INVALID		Sub Code: Control group	Setting error	Check the following settings. ·At the cartesian jog operation, switch to each-axes jog operations, and then change the orientation of manipulator. ·Change the teaching position and orientation.
4685	WRITE ERROR (SAFETY)		An error occurred when recording the data in the function safety uni (NSU01).	Unit failure(NSU01)	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4686	DATA SETTING ERROR (SAFETY)		An error occurred when setting the data in the function safety uni (NSU01).	Unit failure(NSU01)	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4687	OPERATION AREA MON. ERR 2(AXIS)		The function safety unit (NSU01) has detected the manipulator is about to exceed the specified operation area.	Setting error	(1) Select [ROBOT] to open [AXIS RANGE] screen. Set the item to "INVALID" and then cycle the power. (2)Move the manipulator into the specified range. (3) Select [ROBOT] to open [AXIS RANGE] screen. Set the item to "VALID" and then cycle the power.
4688	OPERATION MODE ERROR (AXIS)		Cannot change the mode to PLAY under ENCODER BACK-UP ERROR in NSU system.	Unit failure(NSU01)	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4689	OPERATION AREA MON. ERR 2 (ROBOT)		The function safety unit (NSU01) has detected the manipulator is about to exceed the specified operation area.	Setting error	(1) Select [ROBOT] to open [AXIS RANGE] schreen. Set the item to "INVALID" and then cycle the power. (2)Move the manipulator into the specified range. (3) Select [ROBOT] to open [AXIS RANGE] schreen. Set the item to "VALID" and then cycle the power.
4690	OPERATION MODE ERROR (ROBOT)		Cannot change the mode to PLAY under ENCODER BACK-UP ERROR in NSU system.	Unit failure(NSU01)	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4691	OPERATION AREA SET ERR (SAFETY)		The function safety unit (NSU01) has detected the operation area setting error.	Setting error	(1)Reset the alarm. (2)Check the operation area.
4692	ENCODER BACKUP ERROR (SAFETY)		The function sarety unit (NSU01) has detected a decrease in encoder battery.	Encoder battery failure	(1)Reset the alarm. (2)If AL4311 occurred simultaneously with this alarm, execute the trouble shooting for the AL4311.
				Unit failure(NSU01)	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4693	READBACK PROC. ERROR (SAFETY)	0	Duplicated Parameter read back process	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1	Duplicated File **read back** process	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Incorrect file type	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Incorrect file number	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Incorrect write data	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		5	Process order error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4694	SPEED MONITOR ERROR 1 (SAFETY)		The manipulator was about to move at the speed faster than specified safety speed (250mm/sec) for TCP.	Setting error	(1)Reset the alarm, and then try again. (2)Decrease the operation speed. (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4695	SPEED MONITOR ERROR 2 (SAFETY)		The manipulator was about to move at the speed faster than specified safety speed (250mm/sec) for frange.	Setting error	(1)Reset the alarm, and then try again. (2)Decrease the operation speed. (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4696	TURN TABLE CALIBRATION ERROR	1	There was the same point in three points where the calibration had been executed.	Setting error	Check the following settings. ·Correct the calibration position so that each point is different.
		2	The three points where the calibration had been executed lie in a straight line.	Setting error	Check the following settings. ·Check the calibration position so that the three taught points are not aligned in a straight line.
		3	The three points where the calibration had been executed lie in a straight line.	Setting error	Check the following settings. ·Check the calibration position so that the three taught points are not aligned in a straight line.
4697	OFFLINE ARM BEND POS CONVERT ERR	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. (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	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. (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	Incorrect reference-point data offline arm bend position data conversion	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	Check the following settings. ·The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.
		5	Incorrect pulse incremental value for offline arm bend position data conversion	Setting error	Check the following settings. ·The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.
		6	The position data could not be converted correctly for the pulse incremental value at the offline arm bend position data conversion.	Setting error	Check the following settings. ·The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.
		7	Incorrect Cartesian incremental value for offline arm bend position data conversion	Setting error	Check the following settings. ·The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.
		8	The position data could not be converted correctly for the Cartesian incremental value at the offline arm bend position data conversion.	Setting error	Check the following settings. ·The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.
		9	The position conversion could not be done in the conversion data for offline arm bend position data conversion.	Setting error	Check the following settings. ·The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.
		10	Incorrect incremental value of angle for offline arm bend position data conversion	Setting error	Check the following settings. ·The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.
		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	Check the following settings. ·The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.
		12	The gravity moment for offline arm bend position data conversion could not be calculated.	Setting error	Check the following settings. ·The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.

Alarm Number	Alarm Name	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	Check the following settings. ·The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.
4698	SHIFT VALUE MAKING ERROR	1	Reference position and target position occupation control-group error	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Reference position and target position enabling control-group error	Software operation error occurred	(1)Reset the alarm, and then try again. (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	The position data type is not applicable.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4699	SYSTEM ERROR 1(RSC1)		Sub Code Internal control error in software	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4700	SYSTEM ERROR 2(RSC1)		Sub Code Internal control error in software	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4701	MEMORY ALLOCATION ERROR			Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4703	OPERATION MODE ERROR			Setting error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, set to home position.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
4704	STOPPING POS. MON. ERR (SAFETY)			Connection failure	(1)Check the connection of CNGS1.0 of the NSU. (2)Turn the power OFF then back ON. (3)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
4705	SIGNAL COMPARISON ERROR (SAFETY)	0	PPDSW inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace the CNIFA/CNIFB connector and then cycle the power again.
		1	PBESP inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		2		Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		3	EXESP inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace the CNIFA connector and then cycle the power again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		4	EXDSW inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace the CNIFA connector and then cycle the power again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		5	SAFF inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace the CNIFA connector and then cycle the power again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		6	FST inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		7	UNUSED_1 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		10	SON inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		11	BON inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		12	SVMAIN inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		13	MODE0 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		14	MODE1Inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		15	SSP inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		16	WDGER_1 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		17	WDGER_2 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		20	SFRDY1 inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		21	SFRFB1 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace the CNSF connector and then cycle the power again. (3)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		22	KMMB1 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace the CNSF connector and then cycle the power again. (3)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		23	UNUSED_3 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		24	SFRDY2 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		25	SFRFB2 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		26	KMMB2 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		27	UNUSED_2 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		30	SFRDY3 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		31	SFRFB3 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		32	KMMB3 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		33	UNUSED_5 Inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		34	SFRDY4 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		35	SFRFB4 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		36	KMMB4 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		37	UNUSED_4 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		40	GSIN0 inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace the CNGS1/CNGS2 connector and then cycle the power again. (3)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace the CNGS1/CNGS2 connector and then cycle the power again. (3)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		41	GSIN1 inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check or replace the CNGS1/CNGS2 connector and then cycle the power again.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		42	SFSMDOFB0 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		43	SFSMDOFB1 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		44	SFSMDI0 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		45	SFSMDI1 inconsistent	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		46	SFULI inconsistent	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the short plug S1 to S8 on the board and then cycle the power.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		47	SFULFB inconsistent	data failure	Execute the trouble shooting for the alarms which simultaneously occurred with this alarm.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the short plug S1 to S8 on the board and then cycle the power.
				Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
4706	ROBOT MOTION RANGE OVER(SAFETY)		Sub Code: Control group	Setting error	(1)Check the number of safety range and setting contents are selected in a sub menu [ROBOT RANGE] under main menu [ROBOT]. (2)Select the appropriate safety range by external signals, or reconfigure the safety range.
4708	MOTOR GUN AUTO TUNING INCOMPLETE		Sub Code: Gun number	Setting error	Please complete the setting of MOTOR GUN AUTO TUNING FILE as the following operations. 1. choose [SPOT WELDING] ->[MOTOR GUN AUTO TUNING]. 2. change the mode to PLAYBACK, then push [EXECUTE]. 3. select [REGIST] after the setting of MOTOR GUN AUTO TUNING FILE completes.
4710	WELDER ERROR			Welding power failure	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 .
4711	24V FUSE BLOWN (EW-BOARD)			Parts failure	Replace the fuse on the YEW board.
				Board failure	Replace the YEW board of the corresponding station.
4712	24V DETECT CIR ERR (EW-BOARD			Board failure	Replace the YEW board of the corresponding station.
4713	EXT 24V POWER ERR(EW-BOARD)			Wiring failure	Check if the 24V line that is input for YEW board is correctly wired.
				Unit failure	Replace the unit that supplies with the external 24V power.
4714				YEW01 board failure	Replace the YEW board of the corresponding station.
4715	CIP MESSAGE SERVER FUNC ERROR	1	Failed in the generation of the CIP server task.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	Failed in the ID take of the CIP server task.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Failed in the generation of the class entry table.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Library initialize error.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Failed in the generation of the access process.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		20	Detect sever function started processing.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		40	Detect CIP server task, mail receive error.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4716	BINARY ETHERNET SERVER FUNC ERR	1	IP address duplicated.	IP address setting error	(1)Reset the alarm, and then try again. (2)The IP address is duplicated with the DX100 controller. Confirm the IP address of the communication target. (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (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	Failed in the generation of the RC connect management task.	Software operation error occurred	(1)Reset the alarm, and then try again. (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	Failed in the generation of the RC server task.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		1041	Failed in the endian conversion.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1059	In a RC connect management task, undefined error detected.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		1064	In a RC server task, receive data area overflow.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)The IP address is duplicated with the DX100 controller. Confirm the IP address of the communication target. (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1084	In a file server task, receive data area overflow.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2046	Failed in the endian conversion.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4722	SAFETY OUTPUT FB ERROR (SAFETY)	0	NSU is broken	Unit failure (NSU01)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the NSU01Unit. Save the CMOS.BIN before replace the unit to be safe.
		1	Communication between NSU and YSU has bee cut off.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection state of the following cable. • Communication cable between NSU (CNSF1 connector) and YSU (CN207 connector)
		2	Communication between NSU and YSU has bee cut off.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection state of the following cable. • Communication cable between NSU (CNSF1 connector) and YSU (CN609 connector)
4730	CANNOT EXECUTE BRAKE SLIP DETECT	1	Brake slip detection was commanded to be executed while another optional function was in execution.	Setting error	(1)Reset the alarm, and then try again. (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	Brake slip detection could not be executed in the specified axis.	Setting error	(1)Reset the alarm, and then try again. (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	Holding torque data which is calculated by the brake slip detection is incorrect.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	The torque value for the brake slip detection device is not set	Setting error	(1)Reset the alarm. (2)Check the following settings. • Check torque value

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		6	Holding torque data which is calculated by the brake slip detection exceeds the limit.	Setting error	(1)Reset the alarm. (2)Check the following settings. • Check torque value
		7	The parameter of the pulse operation exceeds the limit.	Setting error	(1)Reset the alarm. (2)Check the following settings. • Pulse operation (S1CxG512 to 519)
		8	The parameter of the error detection value parameter is incorrect.	Setting error	(1)Reset the alarm. (2)Check the following settings. • Error detection value(S1CxG520 to 527)
4800	WDT ERROR (CONVERTER)		Sub Code: Signifies the physical No. of converter in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·EAXA01-CN507,510 ·EAXB01-CN08 ·Converter CN551,553
				Module failure (converter)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA and EAXB boards. Save the CMOS.BIN before replacing the board to be safe.
4850	REGENERATIVE TROUBLE (SERVO2)			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. (2)If the alarm occurs again, replace the SERVOPACK.
4851	REGENERATIVE OVERLOAD (SERVO2)			Setting error	Check the following settings. ·Manipulator motion condition (influence by external force, load condition) ·Regenerative resistor capacity
				Overloading	Check that the load does not exceed the allowable limit.
4852	OVERVOLTAGE (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				Voltage failure	Check the SERVOPACK Primary supply voltage.
				Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
4853	VOLTAGE DROP (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				Voltage failure	Check the SERVOPACK Primary supply voltage.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
4854	OVER SPEED (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·The motor power line ·The encoder line
				Noise interference	Check the noise source and take countermeasures to reduce the noise.
4855	OVERLOAD (MOMENT) (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·The motor power line ·The encoder line
4856	OVERLOAD (CONTINUE) (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·The motor power line ·The encoder line
4857	DB OVERLOAD (SEVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
4858	RESIST OVERLOAD (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				Setting error	Reduce the frequency of the main circuit power supply ON/OFF.
4859	HEAT SINK OVERHEAT (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
4860	ENCODER BATTERY ERROR (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				Connection failure	Check the connection of encoder backup battery.
				Voltage failure	Check the voltage.
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
4861	ENCODER OVERHEAT (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
4862	SPEED A/D ERROR (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
4863	TORQUE A/D ERROR (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
4864	WRONG MOTOR ROTATION (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·The motor power line ·The encoder line
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
4865	POSITION ERROR (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·The SERVOPACK motor power line connector ·The power cable connection of the manipulator cable.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4866	OPEN PHASE (SERVO2)			Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·The SERVOPACK motor power line connector ·The power cable connection of the manipulator cable.
				Voltage failure	Modify the primary breaker voltage to the specified voltage 200V(+10% to 15%).
				Module failure (contactor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the contactor.
				Module failure (converter)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				EAXA board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA board. Save the CMOS.BIN before replacing the board to be safe.
4867	OVERLOAD WARNING (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·The SERVOPACK motor power line connector ·The power cable connection of the manipulator cable.
4868	REGENERATIVE OVERLOAD WARN(SV2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
				Setting error	Check the following settings. ·Manipulator motion condition (influence by external force, load condition) ·Regenerative resistor capacity
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·The SERVOPACK motor power line connector ·The power cable connection of the manipulator cable.
4869	MECHATROLINK DATA SET WARNING			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4870	MECHATROLINK COMMAND WARNING			Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·MECHATROLINK communication cable
4871	MECHATROLINK2 COMMAND WARNING			Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·MECHATROLINK communication cable
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·MECHATROLINK communication cable
				Noise interference	Check the noise source of the MECHATROLINK communication cable and take countermeasures to reduce the noise.
4872	VOLTAGE DROP WARING (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
4873	BATTERY WARNING (SERVO2)			Connection failure	Correct the primary power supply.
				Connection failure	Check the battery connection.
				Module failure (battery)	Replace the battery.
4874	MAIN POWER OFF (SERVO2)			Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
4875	INCOMPLETE FINE POSITIONING (SV2)			Connection failure	Correct the primary power supply.
4876	POSITION ERROR WARNING (SERVO2)			Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
4877	MAGNETIC POLE DETECT ERROR(SV2)			Setting error	Replace the linear encoder.
4883	SENSOR OVER RANGE		Sub Code; channel	Setting error	(1)Reset the alarm and decrease the motion speed in JOB. (2)If the alarm occurs again, save the CMOS.BIN in the maintenance mode and contact your Yaskawa representative about occurrence status (operating procedure).
4885	SENSOR OUTPUT ERROR		Sub Code; channel	Setting error	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in the maintenance mode and contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4901	CUBE/AXIS INTERFERENCE		Sub Code; Group, axis, and interference area number	Setting error	Check the following settings. ·Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is out of interference area. ·Change the settings for interference area.
4940	MOTION COMMAND CODE ERROR (SV)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4941	CANNOT EXECUTE MOTION CMD (SV)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4942	AVERAGING TIME CHANGE ERR (SV)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4943	AVERAGING TIME ERROR (SERVO)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4944	POSITION LOOP GAIN ERROR (SV)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4945	MOTION COMMAND DATA ERROR (SV)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4946	PG POWER ON INCOMPLETE (SV)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4947	SERVO ON MULTIPLE REQUEST (SV)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4948	ENCODER ALARM (SERVO)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4949	GUN BEND MULTI CORRECT ERR (SV)			Setting error	Check the settings for jobs.
4950	MOTOR GUN POS. DIFF. OVER (SV)		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the settings for jobs.
4951	WRONG MOTOR GUN CHANGE AXIS (SV)		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the settings for jobs.
4952	WRONG MOTOR GUN FILE NO. (SERVO)		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the settings for jobs.
4953	ENCODER COUNTER DIFF. ERR(SV)		Sub Code: Signifies the axis in which the alarm occurred	Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4954	REALTIME STATUS S/R ERROR (SV)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4955	AVERAGING DATA ERROR (SERVO)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4956	AVERAGING SUM ERROR (SERVO)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4957	AVERAGING STATUS ERR (SERVO)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4958	HIGH RESOLUTION PRM UNDEFINED(SV)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4959	WRONG GRP CHANGE AXIS (SERVO)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4960	BELT SNAP DETECT PRM ERROR (SV)			Setting error	Check the settings for jobs.
4961	SERIAL ENC OSCILL DETECTED (SV)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4962	BRAKE LOCK ERROR (SERVO)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4963	BRAKE RELEASE ERROR (SERVO)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4964	CONST.SPD MEASURE MULTI REQ (SV)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4965	DIN SIGNAL SPECIFIC. ERROR (SV)		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the settings for jobs.
4966	DB REGIST NOT INSTALLED(SV)			Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. ·DB resist of CN585 amplifier ·Short-circuit connector CN585 amplifier
				DB resist board failure	The DB resist may be fired. Replace the DB resist.
				Module failure (SERVOPACK)	(1)Reset the alarm. (2)If the alarm occurs again, replace the SERVOPACK.
4967	RATED CURRENTAND MAXIMUM CURRENT HIGH RESOLUTION PRM UNDEFINED (SERVO)			Setting error	Check the settings for condition files.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4969	CONVTR POWER ERR (FREQUENCY) (SV)			Board or software failure	Reset the alarm, and then execute the job. If the error occurs again, replace the YSV01 board and the YCP01 board, and then execute the job. Or replace the YIF01 board, and then initialize the job. Then, load the data saved in the external memory device and execute the job again.
4970	CONVTRPOWERERR (PHASE SEQ.)(SV)			Primary power supply failure	Correct the converter primary power supply.
4971	CONVTR POWER ERR(PEAK)(SV)			Primary power supply failure	Correct the converter primary power supply.
4972	CONVTR REGENERATE OVERLOAD (SV)			Primary power supply failure	Correct the converter primary power supply.
4973	POSITION ERROR (COLLISION DETECT)			Setting error	Check the deceleration time parameter.
4974	POSITION ERROR (START LIFT)		Sub Code: Signifies the axis in which the alarm occurred	Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4975	WRONG START LIFT AXIS(SERVO)		Sub Code: Signifies the axis in which the alarm occurred	Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4976	GUN SEARCH DETECT RANGE OVER		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. • Home position of gun axis. • "The pulse-stroke converter" in the gun condition file. • The value of the wear correction.
				Effect of external force	(1)Check that no objects exist between workpiece and gun. (2)Check the lost electrode.
4977	GUN SEARCH POS ERROR		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. • Home position of gun axis. • "The pulse-stroke converter" in the gun condition file. • The value of the wear correction for movable gun electrode.
				Effect of external force	(1)Check the amount of the gap between workpiece position and the teaching position. (2)Check the lost electrode for movable gun.
4978	UNIV.IN/OUT SIGNAL BROKEN (SERVO)	1	Universal input/output 1 between EAXA boards is broken.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • EAXA-CN514 (3)If the alarm occurs again, check if the cable is disconnected.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • EAXA-CN514 (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • EAXA-CN514 (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Universal input/output 2 between EAXA boards is broken or its connector (CN514) is disconnected.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • EAXA-CN514 (3)If the alarm occurs again, check if the cable is disconnected.
		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. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • EAXA-CN514 (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, 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. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • EAXA-CN514 (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4980	DESTINATION PULSE LIMIT			Setting error	Check the following settings. ·Check the position setting for the step (move instruction) where the alarm occurred.
4981	DEST PULSE MECHANICAL LIMIT			Setting error	Check the following settings. ·Check the position setting for the step (move instruction) where the alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4982	DEST MECHANICAL INTRF			Setting error	Check the following settings. ·Check the position setting for the step (move instruction) where the alarm occurred.
4983	DEST MECHANICAL INTRF			Setting error	Check the following settings. ·Check the position setting for the step (move instruction) where the alarm occurred.
4984	DESTINATION SELF-INTERFERENCE			Setting error	Check the following settings. ·Check the position setting for the step (move instruction) where the alarm occurred.
5020	VERIFY ERROR (SENSOR PARAMETER)	0	Use status parameter error of the condition file 1	Parameter setting error	Check the setting for the use status parameter of the condition file 1.
		1	Conveyor port number parameter error of the condition file 1	Parameter setting error	Check the setting for the conveyor port number parameter of the condition file 1.
		2	Disconnection detect parameter error of the condition file 1	Parameter setting error	Check the setting for the disconnection detect parameter of the condition file 1.
		3	Encoder input mode parameter error of the condition file 1	Parameter setting error	Check the setting for the encoder input mode parameter of the condition file 1.
		4	Encoder sign designating parameter error of the condition file 1	Parameter setting error	Check the setting for the encoder sign designating parameter of the condition file 1.
		5	Designation of correcting direction sign reversal parameter error of the condition file 1	Parameter setting error	Check the setting for the designation of correcting direction sign reversal parameter of the condition file 1.
		6	Virtual conveyor speed parameter error of the condition file 1	Parameter setting error	Check the setting for the virtual conveyor speed parameter of the condition file 1.
		7	Averaged travel time parameter error of the condition file 1	Parameter setting error	Check the setting for the averaged travel time parameter of the condition file 1.
		8	Conveyor resolution parameter error of the condition file 1	Parameter setting error	Check the setting for the conveyor resolution parameter of the condition file 1.
		9	QUE-permitted conveyor designating parameter error of the condition file 1	Parameter setting error	Check the setting for the QUE-permitted conveyor designating parameter of the condition file 1.
		100	Use status parameter error of the condition file 2	Parameter setting error	Check the setting for the use status parameter of the condition file 2.
		101	Conveyor port number parameter error of the condition file 2	Parameter setting error	Check the setting for the conveyor port number parameter of the condition file 2.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		102	Disconnection detect parameter error of the condition file 2	Parameter setting error	Check the setting for the disconnection detect parameter of the condition file 2.
		103	Encoder input mode parameter error of the condition file 2	Parameter setting error	Check the setting for the encoder input mode parameter of the condition file 2.
		104	Encoder sign designating parameter error of the condition file 2	Parameter setting error	Check the setting for the encoder sign designating parameter of the condition file 2.
		105	Designation of correcting direction sign reversal parameter error of the condition file 2	Parameter setting error	Check the setting for the designation of correcting direction sign reversal parameter of the condition file 2.
		106	Virtual conveyor speed parameter error of the condition file 2	Parameter setting error	Check the setting for the virtual conveyor speed parameter of the condition file 2.
		107	Averaged travel time parameter error of the condition file 2	Parameter setting error	Check the setting for the averaged travel time parameter of the condition file 2.
		108	Conveyor resolution parameter error of the condition file 2	Parameter setting error	Check the setting for the conveyor resolution parameter of the condition file 2.
		109	QUE-permitted conveyor designating parameter error of the condition file 2	Parameter setting error	Check the setting for the QUE-permitted conveyor designating parameter of the condition file 2.
		200	Use status parameter error of the condition file 3	Parameter setting error	Check the setting for the use status parameter of the condition file 3.
		201	Conveyor port number parameter error of the condition file 3	Parameter setting error	Check the setting for the conveyor port number parameter of the condition file 3.
		202	Disconnection detect parameter error of the condition file 3	Parameter setting error	Check the setting for the disconnection detect parameter of the condition file 3.
		203	Encoder input mode parameter error of the condition file 3	Parameter setting error	Check the setting for the encoder input mode parameter of the condition file 3.
		204	Encoder sign designating parameter error of the condition file 3	Parameter setting error	Check the setting for the encoder sign designating parameter of the condition file 3.
		205	Designation of correcting direction sign reversal parameter error of the condition file 3	Parameter setting error	Check the setting for the designation of correcting direction sign reversal parameter of the condition file 3.
		206	Virtual conveyor speed parameter error of the condition file 3	Parameter setting error	Check the setting for the virtual conveyor speed parameter of the condition file 3.
		207	Averaged travel time parameter error of the condition file 3	Parameter setting error	Check the setting for the averaged travel time parameter of the condition file 3.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		208	Conveyor resolution parameter error of the condition file 3	Parameter setting error	Check the setting for the conveyor resolution parameter of the condition file 3.
		209	QUE-permitted conveyor designating parameter error of the condition file 3	Parameter setting error	Check the setting for the QUE-permitted conveyor designating parameter of the condition file 3.
5022	CONVEYOR POSITION LIMIT	1	Position of the correctional conveyor set at the condition file 1 exceeded ± 21m.	Synchronization area error	The position of the correctional conveyor set at the condition file 1 exceeded ± 21m.
		2	Position of the correctional conveyor set at the condition file 2 exceeded ± 21m.	Synchronization area error	The position of the correctional conveyor set at the condition file 2 exceeded ± 21m.
		3	Position of the correctional conveyor set at the condition file 3 exceeded ± 21m.	Synchronization area error	The position of the correctional conveyor set at the condition file 3 exceeded ± 21m.
5023	CONVEYOR COUNTER LIMIT	1	Counter pulse of the conveyor position set at the condition file 1 overflowed.	Resolution error, Synchronization area error	Review the conveyor resolution or the synchronization area set at the condition file 1. After this alarm occurred, the position of the conveyor is not renewed so that the re-synchronization is not executed and the operation is performed at the conveyor position where the alarm occurs.
		2	Counter pulse of the conveyor position set at the condition file 2 overflowed.	Resolution error, Synchronization area error	Review the conveyor resolution or the synchronization area set at the condition file 2. After this alarm occurred, the position of the conveyor is not renewed so that the re-synchronization is not executed and the operation is performed at the conveyor position where the alarm occurs.
		3	Counter pulse of the conveyor position set at the condition file 3 overflowed.	Resolution error, Synchronization area error	Review the conveyor resolution or the synchronization area set at the condition file 3. After this alarm occurred, the position of the conveyor is not renewed so that the re-synchronization is not executed and the operation is performed at the conveyor position where the alarm occurs.
5070	WORK IN/NOT DATA OVER FLOW		WORK IN/NOT shift data overflowed.	Shift data error	Check the work in/not shift data and the actual workpiece status within the shift area. If any inconsistency is found, delete the work in/not shift data and create the new one.
5071	WORK ID. DATA OVER FLOW		WORK ID shift data overflowed.	Shift data error	Check the work ID shift data and the actual workpiece status within the shift area. If any inconsistency is found, delete the work ID shift data and create the new one.
5072	START SHIFT DATA OVER FLOW		Start shift data overflowed.	Shift data error	Check the start shift data and the actual workpiece status within the shift area. If any inconsistency is found, delete the start shift data and create the new one.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
5073	TRACKING AREA DATA OVER FLOW		Data of the shift area overflowed.	Shift data error	Check the synchronization area data and the actual workpiece status. If any inconsistency is found, delete the synchronization area shift data and create the new one.
5075	ENCODER STOP ERROR (CONVEYOR)		Encoder was not shut down when the control power was turned ON.	Setting error	Confirm that the encoder is shut OFF before turning ON the control power.
5076	TRACK AREA IN/NOT DATA POS LMT		First work of the IN/NOT data in the synchronization area exceeded the set value.	Setting error	Delete the in/not data within the synchronization area.
5077	TRACKING AREA ID DATA POS LMT		First work of the ID data in the synchronization area exceeded the set value.	Setting error	Delete the ID data within the synchronization area.

9 Error

9.1 Error Message

Error warns the operator not to advance to the next operation caused by a wrong operation or the access method when using the programming pendant or an external equipment (computer, PLC, etc.).

When an error occurs, confirm the content of the error then release the error.

To release the error, perform either of the following operations:

- Press [CANCEL] on programming pendant.
- Input alarm/error reset signal (system input).

NOTE

An error is different from an alarm because it does not stop the robot even if it occurred while the robot was operated (during playback).

When two or more errors occur, appears in the message display area. Activate the message display area and press [SELECT] to view the list of current errors.

9.1.1 System and General Operation

Error No.	Data	Error Message	Contents
10	-	Turn off servo power and perform corrective action	It cannot be operated while servo power supply is ON.
20	-	Depress TEACH	Out of specified operation mode
30	-	Illegal setting for number of variables	Parameter setting error
31	-	Illegal setting for number of variable-names	
32	-	Illegal setting for number of SUB task.	
40	-	Undefined robot position variables	Position variable cannot be used.
50	-	Depress MODIFY	
60	-	Undefined points (ORG, XX, XY)	Not registered user coordinates basic 3 points (ORG, XX, XY)
70	-	Program and current tool different	The tool number registered with teaching position data does not match the tool number selected at the programing pendant.
80	-	Same position in the 3 points	
90	-	Set robot exactly to taught position	
100	-	On overrun recovery status	
110	-	Turn ON servo power	
120	-	Set to PLAY mode	
130	-	No start using external signal	
140	-	No start using P.P.	
150	-	TEACH-LOCK mode ON	
160	-	ENABLE LED ON	
170	-	Servo off signal ON	
180	-	TEACH mode select signal ON	
190	-	Set variable number	
200	-	Defined group axis	
210	-	Undefined coordinated robots	
211	-	Cannot register between stations	
212	-	Cannot register at this combination	
220	-	Taught by other robot	
230	-	While releasing soft limit	
240	-	Undefined robot	
250	-	Defined condition No.	

Error No.	Data	Error Message	Contents
260	-	Undefined file	
270	-	Undefined gun condition file	
280	-	Lack of number of I/O points	
290	-	Cannot set same No.	
300	-	Undefined user frame	
310	-	Cannot register Master JOB	
320	-	Cannot operate CHECK-RUN	
330	-	Cannot operate MACHINE LOCK	
340	-	Cannot operate Master JOB	
341	-	Cannot be called up Master JOB	Master JOB cannot be called up while the manual brake is released.
350	-	Cannot initialize	
360	-	Teach point not specified	
370	-	No SYNCRO operation	
380	-	Position not checked	Second home position was not checked.
381	-	Robot range not checked.	Execute the settings described in “Chapter 3. Setup (Safety Range Function for Robot)” in “DX100 OPTIONS INSTRUCTIONS FOR FUNCTIONAL SAFETY UNIT (NSU01)” (Manual No. HW0486052).
382	-	Axis range not checked.	Execute the settings described in “Chapter 4. Setup (Safety Range Function for Each Axis)” in “DX100 OPTIONS INSTRUCTIONS FOR FUNCTIONAL SAFETY UNIT (NSU01)” (Manual No. HW0486052).
383	-	Select joint coordinate system and perform forward operation	
390	-	Can specify servo off by safety relay	
400	-	Wrong specification of measure interval	
410	-	Time could not be measured	Time could not be measured for TRT function.
420	-	Incorrect number of taught points	The number of the taught points for tool calibration is incorrect.
430	-	Register start reserved JOB	
440	-	Clear data to teach at the tool because other tool is set	
450	-	Wrong JOB for measuring	

Error No.	Data	Error Message	Contents
460	-	Excess time for measuring	
470	-	Calibrated at another file	
480	-	Calibrated at another robot combination	
490	-	Cannot calibrate at this combination	
500	-	Undefined robot calibration data	
510	-	Undefined axis	
520	-	Cannot select two coordinated combination	
530	-	Start reservation mode	
540	-	Not start reservation mode	
550	-	Start reserved JOB change prohibit is set	
560	-	Cannot teach position while soft limit released	
570	-	Turn on all of contactor's servo power	
580	-	Connect group-axis to one contactor	
590	-	Register group axis combination	[SYNCHRO] was pressed for coordinated job which was not registered as group.
600	-	Out of setting data range	
610	-	Cannot use the user coordinate	
620	-	Select JOB (robot)	
630	-	Not completed to load original tool file	
640	-	Not specified Tool File	
650	-	Incorrect measured data	
660	-	Wrong data type of position variable	
670	-	Enter path number	
680	-	Defined data	
	XXX		File no.
690	-	Illegal path number	
700	-	Wrong CMOS memory board type	
710	-	Canceled pelletizing shift value	
720	-	Defined name	
721	-	It is already registered for IN/OUT signal name.	
722	-	It is already registered for Variable name.	

Error No.	Data	Error Message	Contents
723	-	It is already registered for Local variable name.	
724	-	The existing names cannot be overwritten	
730	-	Undefined Name Position file	
740	-	This name cannot be defined	
741	-	This name cannot delete	The name cannot be deleted while alias function is valid.
750	-	Undefined Name Position	
760	-	Error in start condition set	
770	-	During robot or station operation	
780	-	Quittance operation by mini operation pendant	
790	-	FWD/BWD don't work in the handle operation	
800	-	The gun of designation is not connected	
801	-	The group axis of designation is not connection	
810	-	Servo power supply is limited	
820	-	Modification range over	
830	-	Cannot move while modifying speed	
840	-	Unregistered key	
850	-	Cannot register instruction	
860	-	Please release key registration mode	
870	-	This key cannot be allocated	
880	-	Same relay cannot be set	
890	-	This key has already been registered. Cannot register them once	
900	-	Relay No. not set	
910	-	Cannot be registered because job control group not same	
920	-	Cannot modify this setting	
930	-	Undefined conveyor calibration data	

Error No.	Data	Error Message	Contents
940	-	Dry spot input signal is ON	
950	-	Adjustment stroke is negative	
960	-	I/O axis mode requesting	
970	-	ERRSVCPU signal error	
971	-	ERRCPU signal error	
980	-	TIMER DATA TRANSMISSON ERROR	

9.1.2 Editing

Error No.	Data	Error Message	Contents
1010	-	EDIT LOCK mode	
1020	-	Enter correct value	
1030	-	Unauthorized ID No.	
1050	-	Enter correct date	
1060	-	Enter correct clock	
1061	-	Enter correct time	The input time value is not correct.
1062	-	Values over 0 are not acceptable. Move to OPERATING TIME screen to set the values over 0.	The value other than “0” cannot be input.
1063	-	Enter 500000 or less value for 'HHHHHH'.	The value for the time is too big.
1070	-	Enter an ID number in 4-8 figures	
1080	-	Negative value can’t be set	
1090	-	Enter correct value(START-END signal no)	

9.1.3 Job Defined Data

Error No.	Data	Error Message	Contents
2010	-	Incorrect character	
2020	-	Name not entered	
2030	-	Undefined JOB name	
2040	-	Defined JOB name	
2050	-	Address not found	
2060	-	Select master	
2070	-	Set robot exactly to taught position	
2080	-	Press INSERT or MODIFY	
2090	-	Only modifying move instruction possible	
2100	-	JOB cannot be edited.	
2110	-	Over soft limit	
2111	-	Over soft limit. Adjust center position or pulse width.	
2120	-	Cannot insert/alter/delete with servo off	
2130	-	Only modifying move instruction possible	
2140	-	Must press ENABLE to modify	
2150	-	Inserting is not possible from this point	
2160	-	Cannot modify or delete this position	
2170	-	Press INSERT to record same step as previous step	
2180	-	Cannot insert data	
2190	-	Cannot delete data	
2200	-	Cannot modify data	
2210	-	Illegal data setting	
2220	-	Display edit instruction	
2230	-	Illegal instruction equation	
2240	-	Excessive instruction equation	
2250	-	Unmatched number of parentheses in equation	
2260	-	Wrong group axis selection	

Error No.	Data	Error Message	Contents
2270	-	Cannot insert any more instruction in JOB	
2280	*	JOB memory is full	
	1		Lack of position file memories
	2		Lack of JOB registering memories
	3		Lack of instruction file memories
	4		Lack of memory pool
	5		Lack of pass condition file for multi layer
	128		The instruction exceeded the maximum size
2290	-	Undefined master JOB	
2291	*	Undefined SUB Master JOB	
	1		Sub-master 1
	2		Sub-master 2
	3		Sub-master 3
	4		Sub-master 4
	5		Sub-master 5
	6		Sub-master 6
	7		Sub-master 7
	8		Sub-master 8
2292	-	Undefined MASTER START JOB	
2293	*	Undefined SUB START JOB	
	1		Sub-master 1
	2		Sub-master 2
	3		Sub-master 3
	4		Sub-master 4
	5		Sub-master 5
	6		Sub-master 6
	7		Sub-master 7
	8		Sub-master 8
2300	-	Cannot teach JOB without group-axis specification	
2310	*	Same label exists	
	XXX		Line no.
2320	-	Cannot create coordinated JOB	
2330	-	Cannot edit coordinated instruction	
2350	-	Pasted data not found	
2340	-	Editing data not found	
2360	-	Cannot create editing area	

Error No.	Data	Error Message	Contents
2370	-	Cannot cut/copy NOP and END instructions	
2380	-	Wrong JOB selection	
2390	-	Wrong group axis selection	
2400	-	Cannot move in cut & paste editing	
2410	-	When variable is used for speed setting, perform a line-edit	
2420	-	When variable is used for teach setting, perform a line-edit	
2430	-	Reverse data not found	
2440	-	Move C-and W-axis to basic position	Laser cutting
2450	-	Relative JOB not permitted	
2460	-	Specified JOB is already converted	
2470	-	Wrong JOB type	
2480	-	Wrong JOB coordinates setting	
2490	-	Execute FWD/BWD operation once	
2500	-	Cannot convert the JOB	
2501	-	Cannot convert positions as macro arguments	
2510	-	Cannot correct position in the JOB	
2520	-	Enter JOB name	
2530	-	Illegal step number	
2540	-	Enter step number	
2550	-	Duplicated step number	
2551	-	Duplicated line number	
2560	-	Cannot correct steps of position variables and REFP	
2570	-	The step does not contain speed	
2580	-	The step dose not contain PL/CONT	
2590	-	Soft limit range over	
2600	-	Cannot teach position in concurrent JOB	
2610	-	Wrong JOB kind	

Error No.	Data	Error Message	Contents
2620	-	Cannot correct play speed in the JOB	
2630	-	Conveyor position not reset	
2640	-	Incorrect JOB name	
2650	-	Defined JOB name	
2660	-	Register MOVL after circular block	
2670	-	Undefined target JOB	
2680	-	Wrong designation of welding section	
2690	-	Defined same kind JOB	
2700	-	Press position not reset	
2710	-	Relative job can't be shifted with pulse type	
2720	-	Cannot correct position variables	
2730	-	Cannot use robot macro JOB	
2740	-	Cannot use concurrent macro JOB	
2750	-	Cannot use JOB with group-axis specification	
2760	-	Cannot insert/modify/delete for group axis detachment	
2761	-	Cannot insert/modify/delete for axis detachment	
2770	-	The job includes instructions that cannot execute reverse paste	
2771	-	Cannot reverse data of SPOTMOV instruction	
2780	-	Arithmetic error	
2790	-	Step exceeding operation range.	
2870	-	Maximum pressure is not set.	The maximum pressure for the gun condition file is not defined.
2871	-	Pulse value and stroke value are not set correctly.	The gun condition file pulse and stroke are not properly defined.
2872	-	Torque value and pressure value are not set correctly.	The gun condition file torque and pressure are not properly defined.
2873	-	Touch press is not set correctly.	The gun condition file touch pressure is not properly defined.

9.1.4 External Memory Equipment

Error No.	Data	Error Message	Contents
3010	-	Floppy disk drive cable not connected	
3020	-	Floppy disk not inserted into floppy disk drive	
3021	-	CompactFlash not inserted into CompactFlash slot(PP)	
3022	-	USB media not inserted	
3030	-	Floppy disk protection is ON	
3040	-	File not saved on the media	
3050	-	File saved on the media	
3060	-	Out of memory on the media	
3070	-	Number of files on the media	
3080	-	I/O error on the media	
3090	*	Transmission error with the media	
	1		Framing error
	2		Overrun error
	3		Parity error
	4		Data code error
	5		Data read error
	6		Data write error
	7		Data time out
	8		Serial I/O error
	9		Error other than described above
3100	-	Total checksum error	
3110	-	Syntax error	
3120	*	HEX code error	
	1		Specification error of data decode
	2		Specification error of EOF record
	3		Record type error
	4		Total check error of record
3130	-	Verify error	
3140	-	Wrong pseudo instruction	
3150	*	Concurrent I/O record error	

Error No.	Data	Error Message	Contents
	1		Format error
	2		Ladder program is too long
	3		Exceed the range of the data
	4		Specification error of channel No.
	5		Specification error of relay No.
	6		Timer value error
	7		Specification error of timer No
3160	-	Cannot load illegal system data	
3170	*	Condition file data error	
	1		Format error
	2		Specified file No. is omitted
	3		Specified tool No. is omitted
	4		User file is not registered.
3180	-	Concurrent I/O data transmission error	
3190	*	Error in JOB data record	
	1		Record on the number of position data (NPOS) is wrong for the format.
	2		Record on the user coordinate No. (USER) is wrong for the format.
	3		Record on the tool No. (TOOL) is wrong for the format.
	4		Record on the position data section is wrong for the format.
	5		Record on the robot type of XYZ data (RCONF) is wrong for the format.
	6		Date (DATE) record is wrong for the format.
	7		Comment (COMM) record is wrong for the format.
	8		Record on the JOB attribute data (ATTR) is wrong for the format.
	9		Control group (GROUP) record is wrong for the format.
	10		Local variable (LVARS) record is wrong for the format.
	11		JOB argument (JARGS) record is wrong for the format.
	12		Record on the teaching coordinates for relative job (FRAME) is wrong for the format.
	13		Position data coordinates do not match relative job coordinates.
3200	-	NOP or END instruction not found	
3210	-	Position No. storage area not found	

Error No.	Data	Error Message	Contents
3220	*	Syntax error in instruction data	
	2		Interior control error
	3		Undefined instruction/tag
	4		Instruction/tag shortage
	5		Disuse instruction/tag
	6		Sub instruction
	7		No instruction
	8		Invalid instruction
	9		Invalid tag
	10		Invalid character
	11		Undefined intermediate code
	12		Intermediate code shortage
	13		Syntax stack overflow
	14		Syntax stack underflow
	15		Array type tag uncompleted Tag [ARRAY]
	16		Element type tag uncompleted Tag [ELEMENT]
	17		Macro JOB unregistered
	18		Input format error
	19		Data size over
	20		MIN value over
	21		MAX value over
	22		Operation expression error
	23		Job call argument setting error
	24		Macro job call argument setting error
	25		Position vector setting error
	26		System error
	27		Soft key designate error
	28		Numerical input buffer overflow
	29		Real type data precision error
	30		Element format error
	35		BOOL TYPE data error
	36		CHAR data error
	37		BYTETYPE, BINARY / HEXADECIMAL BYTE TYPE data error
	38		INTEGER TYPE, DECIMAL WORD TYPE data error
	39		BINARY/HEXADECIMAL WORD TYPE data error
	40		DOUBLE PRECISION INTEGER TYPE, DECIMAL DWORD TYPE data error
	41		BINARY/HEXADECIMAL WORD TYPE data error
	42		REAL TYPE data error
	43		LADDER SPECIAL TYPE data error

Error No.	Data	Error Message	Contents
	44		JCL text
	45		Invalid text
	46		LABEL NAME data error
	47		JOB NAME data error
	48		STRING data error
	49		COMMENT data error
	51		The job contains the instructions which exceeded the maximum size
	58		Invalid instruction/tag detection
3230	-	Syntax not matched	
3240	-	Undefined application	
3250	-	Cannot load this file	
3260	-	Excess input data	
3270	-	Cannot verify this file	
3280	-	Wrong welding condition (STANDARD/ENHANCED)	
3290	-	Serial port not defined	
3300	-	Serial port being used	
3310	-	Protocol being used	
3320	-	Wrong GUN type	
3330	-	Undefined multilayer data	
3340	-	Illegal number of multilayer data	
3350	-	Not enough memory	
3360	-	Invalid folder	
3370	-	Incorrect folder name	
3380	-	Drive not ready	
3390	-	File not found	
3400	-	File already exists on the media	
3410	-	Out of memory on the media	
3420	-	Max number of files has been reached	
3430	-	I/O error on the drive	
3440	-	Wrong media type	
3450	-	Cannot load macro JOB at current security mode	Load in management mode.
3460	*	Cannot backup the media	
	1		Insufficient Compact Flash memory.
	2		Not accessible to Compact Flash.
3470	-	Database not found	
3480	-	Database access error	
3490	-	Same database exists	
3500	-	Check the media insertion	

Error No.	Data	Error Message	Contents
3501	-	Check the media insertion	
3510	-	Cannot delete folder. Check attribute and inside file	
3520	-	Same folder exists	
3530	-	Cannot load at current security mode	
3540	-	CMOS not compatible	
3550	-	Under automatic backup operation. Operate after the backup is completed.	
3551	-	Under automatic backup operation. Operate "SORT FILE" after the backup is completed.	
3560	-	Failed in sorting backup file	
3570	-	Actuator data transmission error	
3580	-	Under backup file access. Operate after the access is completed.	
3581	-	Under backup file access. Operate "SORT FILE" after the access is completed.	
3600	-	system configuration data not matched	
3610	-	Excessive path	
3620	-	Excess folders	

9.1.5 Concurrent I/O

Error No.	Data	Error Message	Contents
4010	*	Illegal relay No.	
	XXX		Line no.
4020	-	Illegal block No.	
4030	*	Illegal instruction	
	XXX		Line no.
4040	*	Relay/register No. duplicated in OUT/ GOUT or arithmetic instruction	Multiple outputs are instructed to the relay or register.
	XXX		Line no.
4050	*	The relay is not used	
	XXX		Line no.
4060	*	Excess STR-[-NOT] instructions	
	XXX		Line no.
4070	*	Excess AND [OR] STR instructions	
	XXX		Line no.
4080	*	Syntax error in CRT instructions	
	XXX		Line no.
4090	*	Enter STR [-NOT] at head of block	Need STR [-NOT]
	XXX		Line no.
4100	-	Relay No. duplicated in TMR and CNT	
4110	-	Excessive ladder scan-time	
4120	-	Concurrent I/O memory is full	Exceeds memory capacity (10000 steps)
4130	-	END instruction not found	END instruction not found
4140	-	Wrong ladder program	Position and number of PART instruction are wrong.
4150	*	Wrong use of GSTR, GOUT commands	GSTR and GOUT is not used together.
	XXX		Line no.
4160	-	Cannot edit system section	
4170	-	Cannot modify/delete	
4180	-	Depress INSERT/MODIFY/DELETE keys	
4190	-	Ladder program not found	

Error No.	Data	Error Message	Contents
4200	-	Cannot specify system variables($)	
4210	-	Cannot edit line	
4220	-	Excess TMR/CNT or arithmetic instructions	More than 100 TMR, CNT or arithmetic instruction used
4230	-	Syntax error in TMR/CNT instructions	

9.1.6 Maintenance Mode

Error No.	Data	Error Message	Contents
8010	-	Too many axes	
8011	-	Choose the input of overrun	
8012	-	Equipment data file reading error	
8020	-	Too many I/O points	
8021	-	YIU Unit not found	
8030	-	Too many boards (DEVICENET)	
8031	-	Too many boards (MSC01B)	
8032	-	Too many Timer I/F board	
8033	-	Too many boards	
8034	-	Too many channels	
8035	-	Invalid configuration	
8040	-	Memory error (ControlNet output condition)	
8041	-	Memory error (UNIWIRE CONNECT DAT	
8042	-	Memory error(IP Network Configuration data)	
8050	-	Robot model is not registered	
8051	-	Select model	
8060	-	Cannot get UNIWIRE connection data	
8070	-	DHCP is already set to use for another item	
8071	-	DNS is already set to use for another item	
8072	-	DHCP is not set to use	
8073	-	DNS is not set to use	
8074	-	Device Information not found	
8075	-	Unable to accept same type of boards simultaneously	
8076	-	Ethernet is being used by other function.	
8080	-	Non support function	

Error No.	Data	Error Message	Contents
8205	-	ENABLE Unit over	
8206	-	FLASH access error	
8210	-	IO module configuration is not modified	
8211	-	OPTION, BOARD or MODULE SETUP is not completed.	
8212	-	Cannot change setting (Function conflict	
8213	-	Check EXTERNAL IO setup	
8216	-	Cannot change setting. Check the setting of control group.	Invalid the settings of the high speed spot welding or re-examine the control group configuration by referring to “Chapter 9.12. High Spot Welding Function” in “DX100 OPERATOR’S MANUAL FOR SPOT WELDING USING MOTOR GUN” (Manual No.RE-CSO-A040).
8217	-	Cannot change setting. Check the setting of spot high speed spec.	Invalid the settings of the high speed spot welding or re-examine the control group configuration by referring to “Chapter 9.12. High Spot Welding Function” in “DX100 OPERATOR’S MANUAL FOR SPOT WELDING USING MOTOR GUN” (Manual No.RE-CSO-A040).

9.2 Particular Error Message

Apart from ordinary alarms or errors, some may display an error box message on the programming pendant. This message is displayed, when the system of the programming pendant becomes unauthorized.

9.2.1 Message

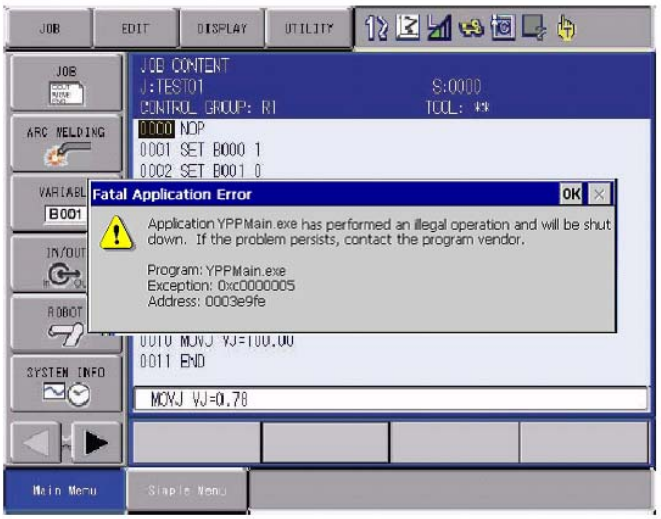
9.2.1.1 Fatal Error

This message is displayed when the fatal error occurs.

The message is “Fatal application Error” although the content of the message box varies depending on the occurrence status.

The programming pendant becomes either of following states

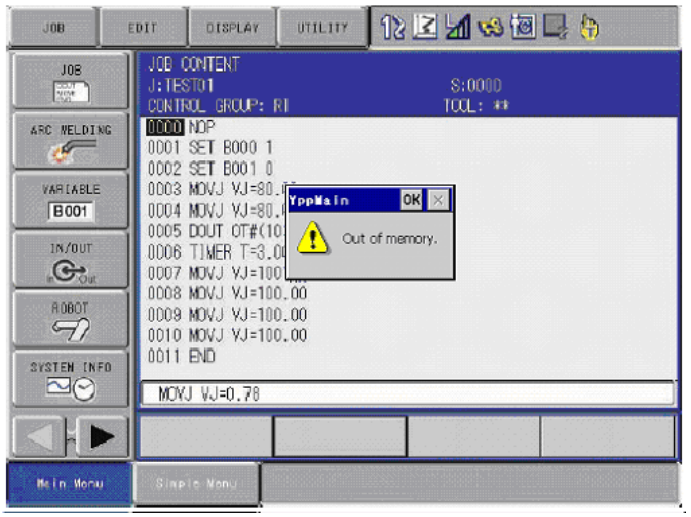
1. The window becomes inoperable.
2. The window disappears and blue background appears.



9.2.1.2 Application Transaction Error

This message is displayed when the system or the software of the programming pendant becomes unauthorized due to unexpected transaction or failure in software transaction, etc.

The message in the message box varies depending on the occurrence status.



Followings are the messages possible to occur.

Message	Meaning
syntax error	There is an unauthorized part in internal processing description.
expression too complex(stack overflow)	Internal stack has overflowed.
function nesting depth exceeded	Nesting of internal processing is unauthorized.
bad radix	The cardinal number used is unauthorized.
divide by 0	Memory is running out.
out of memory	Memory is insufficient.
argument list does not match a function	The internal processing of the pendant program is unauthorized.
register is not available	Specified an unavailable system data.

The programming pendant becomes either of following states

1. The window becomes inoperable.
2. Press [OK] button to disappear the message box and it becomes operable.

9.2.1.3 Other Errors

Other errors than mentioned above, some can trigger the message box. In these cases, the tile of the box can be “Ypp” or “YPPMain”.

9.2.2 When the Error is Indicated

9.2.2.1 Fatal Error

Programming pendant becomes inoperable when this message appears. Please restart the system.

9.2.2.2 Application Transaction Error

It is possible to keep the operation after pressing [OK] button to disappear the message box. However, in this case, the system might be instable. Please restart the system if the window becomes inoperable.

9.2.2.3 Other Errors

Most of the cases when an error occurs, it is possible to keep the operation after pressing [OK] button to disappear the message box. Please restart the system if the window becomes inoperable.

Sometimes the message appears due to a specific operation although unstable state of the programming pendant is the main cause of the error in most cases.

If the pendant becomes inoperable after the message due to a specific operation invariably, please report the displayed message to your Yaskaswa representative.

10 LED Indicator on Circuit Board

Before the check of a LED indications

In principle, the door must not be opened to prevent electric shock while power is on. However, it is required to open the door if each circuit board, LED display in the YSU unit or other item must be checked for maintenance. Exercise extreme care in this case.

WARNING

- To perform this operation, it is required to open the door of the control box while power is on.
- A heavy current (AC200V) flows inside the control box. Do not touch the internal unit.

Failure to observe this warning may result in electric shock.

- Close the door as soon as the maintenance work such as LED check is completed.

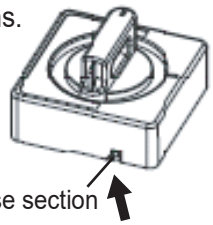
Failure to observe this warning may result in electric shock.

<How to Open and Close the Door>

< Excerpt from information materials of manufacturers >

● Door Lock Mechanism

The door of the control box can be opened at the OFF position. The door of the control box cannot be opened at the ON or trip position because it is locked at these positions. However, pressing the release section in the arrow direction with a tool (3mm wide, 1.8mm thick) makes it possible to open the door locked at the ON or trip position.



WARNING

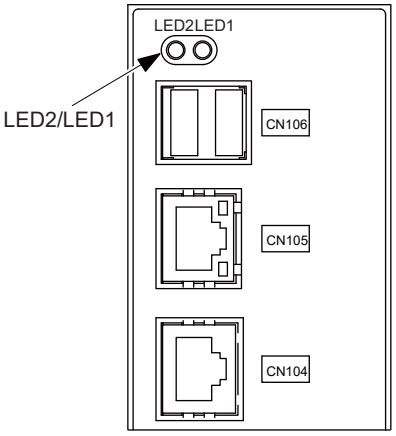
- Close the door as soon as the maintenance work such as LED check is completed.

Failure to observe this warning may result in electric shock.

10.1 LED Indicator on YCP 01 Circuit Board

The LED indicators: LED1/LED2 on the YCP01 circuit board show the statuses as in the following table. The LED indicators show the operating statuses for the single YCP01 circuit board.

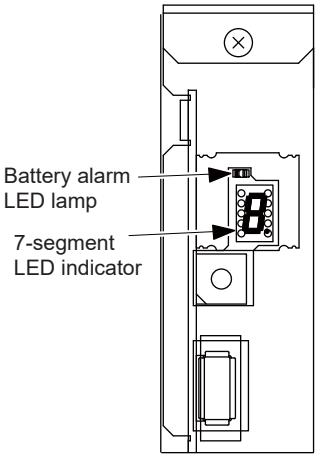
LED0	KED1	Status
OFF	OFF	The power is not turned ON.
ON	OFF	Searches the connecting device.
OFF	BLINK	Before the BIOS starts Searches the booting device
ON	BLINK	Booting device ready
ON	ON	The BIOS initialization has been completed./OS boot starts.



10.2 LED Indicator on Robot I/F Circuit Board

The 7-segment LED indicator and battery alarm LED lamp are located on the robot I/F circuit board (JANCD-YIF01□).

See *chapter 10.3 "7 SEG-LED Indicator"* for details displayed by the 7-segment LED indicator. The battery alarm LED lamp is lit when the battery runs out. See *chapter 5.1.1 "Replacing Parts of the CPU Unit"* .



10.3 7 SEG-LED Indicator

The following tables show the operating statues for JANCD-YIF01/SRDA-EAXA01/JANCD-YCP02/JANCD-YSU01. The operating statuses are indicated by 7 SEG-LED.

Table 10-1: ***[Normal Indication]***

Status	DX100			
	YIF01	**EAXA01**	**YCP02**	**YSU unit**
Right after applying the power	All 7-SEG indicators light up. (‘8’ + ‘.’ light up.)			
During the start-up process	Counts up from ‘O’ toward ‘d’.			
After starting up normally	‘d’ + ‘.’ blink every one second.			

Table 10-2: ***[Error Indication]***

Status	DX100		
	YIF01	**EAXA01**	**YCP02**
Alarms occurrence in the Main CPU and servo CPU communication system	‘d + ‘.’ blink every one second.	The error cause is indicated by 7 SEG-LED. (See the indication spec 1.)	‘d’, + ‘.’ blink every one second.
Normal alarms other than alarms described above		‘d’ + ‘.’ blink every one second.	
Fatal alarms occurrence	The error cause and the address where the error has occurred are indicated by 7 SEG-LED. (See the indication spec 2.)		

SUPPLE -MENT

Indication Spec 1
E.g.)
The cycle: [F] → [0] → [0] → [3] → [.] is repeated.

: Error cause

Indication Spec 2
E.g.)
[-] → [0] → [2] → [0] → [0] → : Error cause
The cycle: [,] → [-] → [0] → [0] → [0] → [0] → [F] → [F] → [0] → [4] is repeated.: Address where the error occurred

Table 10-3: [YSU01 Unit Error Indication]

Status	**DX100**
	YSU unit
YSU unit detects errors	‘E’ + ‘.’ light up.
EXAX01 and communication errors	‘F’ + ‘.’ light up.
Watch dog errors (WDT)	‘≡’ light up.

10.3.0.1 7 SEG-LED Indicator Status (1-digit indication) of Each Unit at Error Occurrence

YIF01	
All Lit	The power has been turned ON.
0	The booting program has started.
1	The system program has started. (Starts up initializations of various kinds.)
2	Starts verifying the existence of other circuit boards. (Verifies the start-up of the booting program.)
3	Starts the system program transmission.
4	Sends the request of the system program start-up.
5	Starts verifying the existence of other circuit boards. (Verifies the start-up of the system program.)
6	Acquires hardware information, etc. of other circuit boards. (Verifies the IO board status, servo IF, and so on.)
7	Starts the CMOS data transmission.
8	Sends the pre-online request.
9	Waits for CERF communication synchronization.
A	
B	Sends the start-up request of on-line system.
C	The on-line system has started. (Starts up the initialization task.)
D	Processes the DX100 setup completion. (Servo ON enabled)
E	Alarm occurs at the DX100 setup.
F	The maintenance system is starting up.
P	Communications interrupted between NCP01 and the programming pendant.
U	Updating system software through network.

EAXA01	
All Lit	The power has been turned ON.
0	The booting program has started. (ROM/RAM/FP register check)
1	Starts the booting system. (Completes initializations of various kinds.)
2	Completes the preparation for receiving the system program.
3	The system program has been received. (Waits for the request of system change.)
4	The system program has started. (Starts up hardware initializations of various kinds.)
5	Starts the system. (Completes initializations of various kinds.)
6	Starts the CMOS data transmission.
7	Receives the CERF mapping. (Waits for pre-online)
8	Starts the servo system. (Starts the process of various initializations.)
9	Waits for RIF communication synchronization. (Completes the process of various initializations.)
A	
B	Waits for the start-up of on-line system.
C	
D	Completes the DX100 setup process. (Servo ON enabled)

YCP02	
All Lit	The power has been turned ON.
0	The booting program has started. (ROM/RAM/FP register check)
1	Starts the booting system. (Completes initializations of various kinds.)
2	Completes the preparation for receiving the system program.
3	The system program has been received. (Waits for the request of system change.)
4	The system program has started. (Starts up hardware initializations of various kinds.)
5	Starts the system. (Completes initializations of various kinds.)
6	Starts the CMOS data transmission.
7	Receives the CMOS mapping. (Waits for pre-online)
8	Starts the optional system. (Starts the process of various initializations.)
9	
A	
B	
C	
D	Completes the DX100 setup process.

YSU01	
All Lit	The power has been turned ON.
	YSU unit version is indicated. Example) When 1.00-00 “1”→ “.”→ “0”→ “0”→ “1”→ “-”→ “0”→ “0”.
0	The system program has started.
1	ROM check.
2	RAM check.
3	Common memory clear.
4	Common memory check.
5	Starts up initializations of various kinds.
6	Watch dog (WDT) is processed.
7	IC for communication is initialized.
8	Starts the servo system. (Starts the process of various initializations.)
9	Waits for RIF communication synchronization. (Completes the process of various initializations.)
A	
B	Sends a command to EAXA01 (servo).
C	Receives a command to EAXA01(servo).
D	Completes the DX100 setup process. (Servo ON enabled).
F	Communication error with EAXA01 (servo).
Ξ	Watch dog (WDT) error.
⊔	Power source and voltage error.

Note: YSU unit has two 7-SEG-LEDs (DS1, DS2) and both of them have the same memory as above.

10.3.0.2 7 SEG-LED Indicator Status (4 digit-indication) of Each Unit at Error Occurrence

YNIF01	
0000	Arithmetic error
0001	Debug
0002	NMI
0003	Breakpoint
0004	Overflow
0005	Out of BOUND
0006	Invalid operation code
0007	Device disabled
0008	Double fault
0009	Coprocessor segment overrun
000A	Invalid TSS
000B	Segment absence
000C	Stack segment fault
000D	General protection exception
000E	Page fault
000F	
0010	Floating point error
0011	Alignment check
0012	Machine check
0013	SIMD floating point exception
0014	
0015	
0016	
0017	
0018	
0019	
001A	
001B	
001C	
001D	
001E	
001F	
0900	WDT error

EAXA01	
0010	ROM error in the boot section
0020	RAM error
0030	FP register error
0040	On-line communications command error
0100	Reset exception
0200	Machine check exception
0210	WDT error
0300	Data access error
0400	Instruction access exception
0500	
0600	Alignment exception
0700	Program exception
0800	Unavailable floating point exception
0900	
0A00	Undefined exception
0B00	Undefined exception
0C00	System call exception
0D00	Trace exception
0E00	Undefined exception
0F00	Undefined exception
1000	Instruction conversion error exception
1100	Data load conversion error exception
1200	Data store conversion error exception
1300	Instruction breakpoint exception
1400	System management interruption
1500	Undefined exception
1600	Undefined exception
1700	Undefined exception
1800	Undefined exception
1900	Undefined exception
1A00	Undefined exception
1B00	Undefined exception
1C00	Undefined exception
1D00	Undefined exception
1E00	Undefined exception
1F00	Undefined exception
2000	Undefined exception
2100	Undefined exception
2200	Undefined exception
2300	Undefined exception
2400	Undefined exception
2500	Undefined exception
2600	Undefined exception
2700	Undefined exception
2800	Undefined exception
2900	Undefined exception
2A00	Undefined exception

EAXA01	
2B00	Undefined exception
2C00	Undefined exception
2D00	Undefined exception
2E00	Undefined exception
2F00	Undefined exception
3010	Receiving data size error
3020	Receiving data sum error
3030	Receiving data write address error
3040	All receiving data sum error
F001	Communication error to RIF (Send incompletion)
F002	Communication error to RIF (Receive incompletion)
F003	Communication error from RIF (Receive WDT)
F004	Communication error from RIF (Receive WDG inconsistency)
F010	Communication error with RIF (status error)
F101	Power lost detected. (SV#1)
F102	Power lost detected. (SV#2 and later)
F103	Torque saturation occurred for a certain period time during AC holdup.
F104	AC holdup continues for certain period time.

YCP02	
0010	ROM error in the boot section
0020	RAM error
0030	FP register error
0040	On-line communications command error
0100	Reset exception
0200	Machine check exception
0210	WDT error
0300	Data access error
0400	Instruction access exception
0500	
0600	Alignment exception
0700	Program exception
0800	Unavailable floating point exception
0900	
0A00	Undefined exception
0B00	Undefined exception
0C00	System call exception
0D00	Trace exception
0E00	Undefined exception
0F00	Undefined exception
1000	Instruction conversion error exception
1100	Data load conversion error exception
1200	Data store conversion error exception
1300	Instruction breakpoint exception
1400	System management interruption
1500	Undefined exception
1600	Undefined exception
1700	Undefined exception
1800	Undefined exception
1900	Undefined exception
1A00	Undefined exception
1B00	Undefined exception
1C00	Undefined exception
1D00	Undefined exception
1E00	Undefined exception
1F00	Undefined exception
2000	Undefined exception
2100	Undefined exception
2200	Undefined exception
2300	Undefined exception
2400	Undefined exception
2500	Undefined exception
2600	Undefined exception
2700	Undefined exception
2800	Undefined exception
2900	Undefined exception
2A00	Undefined exception

YCP02	
2B00	Undefined exception
2C00	Undefined exception
2D00	Undefined exception
2E00	Undefined exception
2F00	Undefined exception
3010	Receiving data size error
3020	Receiving data sum error
3030	Receiving data write address error
3040	All receiving data sum error

11 Trouble Shooting When Alarm is not Displayed

When DX100 doesn’t start and any alarm is not displayed, turn ON and OFF the power of DX100 controller.

When the condition doesn’t change even after turning ON and OFF the DX100, follow the steps below.

WARNING

- To check the LED display of each unit, open the door of DX100 while the power is ON. When check the LED indication, be sure not to touch devices in the DX100.
  Touching the devices may result in an electric shock.

The data of robot controller is stored in the CF card of YCP01 circuit board and the memory of I/F circuit board (YIF01).

Screen status of programming pendant	7SEG LED for robot I/F circuit board (YIF01)	Assumed status	Cause	Remedy
The screen does not become bright and nothing is displayed.	Lights OFF	Power is not provided to the CPU unit.	Power supply failure	(1)Check that the LED[SOURCE] of the YPS01 unit is ON. If the LED is OFF, check the status of the primary power supply.
		The power supply unit (YPS01) is out of order.	YPS01 unit failure	(1)Check that all the red LEDs [+5V][+24V][FAN][OHT] of YPS01 unit are OFF. If these LEDs are ON, replace the YPS01 unit. (refer to *1)
		The control power supply is turned OFF by the external REMOTE signal.	REMOTE signal	(1)Check that the LED[P-ON] of the YPS01 unit is ON. (2)If the LED[P-ON] is OFF, check whether the control power supply is not turned OFF by the external REMOTE signal. (3)Replace the YPS01 unit. (refer to *1)
	Other than described above	The power is not provided to the machine safety unit (YSU01). (Power of the programming pendant is provided through YSU01 from YPS01.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, check the connection and insertion status of the following cables and connectors. -The cable between the YPS01 circuit board (CN154) and the YSU01 circuit board (CN200) -The connector of the YPS01 circuit board (CN154) -The connector of the YSU01 circuit board (CN200)
			YSU01 unit failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, replace the YSU01 unit.
		The power is not provided to the programming pendant from the machine safety unit (YSU01). (Power of the programming pendant is provided through YSU01 from YPS01.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, check the connection and insertion status of the following cables and connectors. -The cable between the YSU01circuit board (CN200) and the programming pendant -The connector of the YSU01 circuit board (CN200)
		The programming pendant is out of order or operating improperly.	Programming pendant failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, replace the programming pendant.

Screen status of programming pendant	7SEG LED for robot I/F circuit board (YIF01)	Assumed status		Cause	Remedy
 *Figure of manipulator The screen remains unchanged from the above, or changes to the following screen in about 6 minutes.	Lights OFF	The YCP01 circuit board is out of order or malfunctions.		YCP01 circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the YCP01 circuit board from the CPU unit and reinstall it. (3)If the error occurs again, replace the YCP01 circuit board. After replacing the circuit board, remove the CF card inserted into the old YCP01 circuit board and insert it into the new YCP01 circuit board. (refer to *3)
		The robot I/F circuit board (YIF01) is out of order or malfunctions.		YIF01 circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the YIF01 circuit board from the CPU unit and reinstall it. (3)If the error occurs again, replace the YIF01 circuit board. After replacing the circuit board, load the CMOS.BIN. file (refer to *2)
 *The message "Controller<-> Pendant Connection Failed" is displayed.	All the LEDs ON ('8' + '.' ON)	One or more LEDs (LED1/ LED2) of YCP01 are OFF.	The YCP01 circuit board is out of order or malfunctions.	YCP01 circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the YCP01 circuit board from the CPU unit and reinstall it. (3)If the error occurs again, replace the YCP01 circuit board. After replacing the circuit board, remove the CF card inserted into the old YCP01 circuit board and insert it into the new YCP01 circuit board. (refer to *3)
			The circuit board inserted into the PCI slot of the CPU rack or the YCP 01 circuit board is out of order or malfunctions.	PCI circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the circuit board inserted into the PCI slot of the CPU rack or the YCP 02 circuit board and reinstall it. (3)If the error occurs again, replace the circuit board inserted into the PCI slot of the CPU rack or the YCP 02 circuit board.
			The backboard is out of order.	Backboard failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, replace the whole CPU unit. (refer to *6)

Screen status of programming pendant	7SEG LED for robot I/F circuit board (YIF01)	Assumed status		Cause	Remedy
	All the LEDs ON ('8' + '.' ON)	Both LEDs (LED1/ LED2) of YCP01 are ON.	The system program cannot be read properly from the CF card in the YCP01 circuit board.	CF card (inserted into YCP01 circuit board) failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the CF card from the YCP01 circuit board and reinstall it. (3)If the error occurs again, replace the the CF card of the YCP01 circuit board. (refer to *4)
			The robot I/F circuit board (YIF01) is out of order or malfunctions.	YIF01 circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the YIF01 circuit board from the CPU unit and reinstall it. (3)If the error occurs again, replace the YIF01 circuit board. After replacing the circuit board, load the CMOS.BIN. file (refer to *2)
	'0' or '1'	The YCP01 circuit board is out of order or malfunctions.		YCP01 circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the YCP01 circuit board from the CPU unit and reinstall it. (3)If the error occurs again, replace the YCP01 circuit board. After replacing the circuit board, remove the CF card inserted into the old YCP01 circuit board and insert it into the new YCP01 circuit board. (refer to *3)
		The system program cannot be read properly from the CF card in the YCP01 circuit board.		CF card (inserted into YCP01 circuit board) failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the CF card from the YCP01 circuit board and reinstall it. (3)If the error occurs again, replace the the CF card of the YCP01 circuit board. (refer to *4)
		The specified data cannot be read properly from the CF card in the YCP01 circuit board or an invalid value is specified.		Setting error	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the CF card from the YCP01 circuit board and reinstall it. (3)If the error occurs again, replace the CF card of the YCP01 circuit board. (refer to *4)
		The robot I/F circuit board (YIF01) is out of order or malfunctions.		YIF01 circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the YIF01 circuit board from the CPU unit and reinstall it. (3)If the error occurs again, replace the YIF01 circuit board. After replacing the circuit board, load the CMOS.BIN. file (refer to *2)

Screen status of programming pendant	7SEG LED for robot I/F circuit board (YIF01)	Assumed status	Cause	Remedy
	‘0’ or ‘1’	The circuit board inserted into the PCI slot of the CPU rack or the YCP 01 circuit board is out of order or malfunctions.	PCI circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the circuit board inserted into the PCI slot or the YCP 02 circuit board and reinstall it. (3)If the error occurs again, replace the circuit board inserted into the PCI slot or the YCP 02 circuit board
		The backboard is out of order.	Backboard failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, replace the whole CPU unit. (refer to *6)
	Other than described above	A communication error has occurred between the YCP01 circuit board and the programming pendant.	Connection failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, check the connection and insertion status of the following cables and connectors. -The cable between the YCP01 circuit board (CN105) and the programming pendant -The connector of the YCP01 circuit board (CN105)
		The programming pendant is out of order or operating improperly.	Programming pendant failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, replace the programming pendant.
		The YCP01 circuit board is out of order or malfunctions.	YCP01 circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the YCP01 circuit board from the CPU unit and reinstall it. (3)If the error occurs again, replace the YCP01 circuit board. After replacing the circuit board, remove the CF card inserted into the old YCP01 circuit board and insert it into the new YCP01 circuit board. (refer to *3)
		The robot I/F circuit board (YIF01) is out of order or malfunctions.	YIF01 circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the YIF01 circuit board from the CPU unit and reinstall it. (3)If the error occurs again, replace the YIF01 circuit board. After replacing the circuit board, load the CMOS.BIN. file (refer to *2)

Screen status of programming pendant	7SEG LED for robot I/F circuit board (YIF01)	Assumed status	Cause	Remedy
*Character strings are displayed on the white screen and remains unchanged for more than 5 minutes.	Either of '2' - '9', 'b' and 'C'	The YCP01 circuit board is out of order or malfunctions.	YCP01 circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the YCP01 circuit board from the CPU unit and reinstall it. (3)If the error occurs again, replace the YCP01 circuit board after saving the CMOS.BIN file to be safe. After replacing the circuit board, load the CMOS.BIN file saved before the error occurs. (refer to *3)
		The system program cannot be read properly from the CF card in the YCP01 circuit board.	CF card (inserted into YCP01 circuit board) failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the CF card from the YCP01 circuit board and reinstall it. (3)If the error occurs again, replace the CF card of the YCP01 circuit board after saving the CMOS.BIN file to be safe. After replacing the CF card, load the CMOS.BIN file saved before the error occurs. (refer to *4)
		The specified data cannot be read properly from the CF card in the YCP01 circuit board or an invalid value is specified.	Setting error	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the CF card from the YCP01 circuit board and reinstall it. (3)If the error occurs again, save the CMOS.BIN file, then load the CMOS.BIN file saved before the error occurs. (refer to *5) (4)If the error occurs again, replace the CF card of the YCP01 circuit board after saving the CMOS.BIN file to be safe. After replacing the CF card, load the CMOS.BIN file saved before the error occurs. (refer to *4)
		The robot I/F circuit board (YIF01) is out of order or malfunctions.	YIF01 circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the YIF01 circuit board from the CPU unit and reinstall it. (3)If the error occurs again, replace the YIF01 circuit board. After replacing the circuit board, load the CMOS.BIN. file (refer to *2)
		The programming pendant is out of order or operating improperly.	Programming pendant failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, replace the programming pendant.
		The circuit board inserted into the PCI slot of the CPU rack or the YCP 02 circuit board is out of order or malfunctions.	PCI circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the circuit board inserted into the PCI slot or the YCP 02 circuit board and reinstall it. (3)If the error occurs again, replace the circuit board inserted into the PCI slot or the YCP 02 circuit board.
		The backboard is out of order.	Backboard failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, replace the whole CPU unit. (refer to *6)

Screen status of programming pendant	7SEG LED for robot I/F circuit board (YIF01)	Assumed status	Cause	Remedy
	'E'	A communication error has occurred between the YCP01 circuit board and the programming pendant.	Connection failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, check the connection and insertion status of the following cables and connectors. -The cable between the YCP01 circuit board (CN105) and the programming pendant -The connector of the YCP01 circuit board (CN105)
		The specified data cannot be read properly from the CF card in the YCP01 circuit board or an invalid value is specified.	Setting error	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the CF card from the YCP01 circuit board and reinstall it. (3)If the error occurs again, save the CMOS.BIN file, then load the CMOS.BIN file saved before the error occurs. (refer to *4) (4)If the error occurs again, replace the CF card of the YCP01 circuit board after saving the CMOS.BIN file to be safe. After replacing the CF card, load the CMOS.BIN file saved before the error occurs. (refer to *4)
		The robot I/F circuit board (YIF01) is out of order or malfunctions.	YIF01 circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the YIF01 circuit board from the CPU unit and reinstall it. (3)If the error occurs again, replace the YIF01 circuit board after saving the CMOS.BIN file to be safe. After replacing the circuit board, load the CMOS.BIN file saved before the error occurs. (refer to *2)
		The programming pendant is out of order or malfunctions.	Programmin g pendant failure	-Turn the power OFF then back ON. -If the error occurs again, replace the programming pendant.
	'd', 'F' or 'P'	A communication error has occurred between the YCP01 circuit board and the programming pendant.	Connection failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, check the connection and insertion status of the following cables and connectors. -The cable between the YCP01 circuit board (CN105) and the programming pendant -The connector of the YCP01 circuit board (CN105)
		The programming pendant is out of order or malfunctions.	Programmin g pendant failure	-Turn the power OFF then back ON. -If the error occurs again, replace the programming pendant.

Screen status of programming pendant	7SEG LED for robot I/F circuit board (YIF01)	Assumed status	Cause	Remedy
 *The message “Controller<-> Pendant disconnected. Start reconnect.” or the following window is displayed.	‘P’ or ‘d’ + ‘.’ (dot ON or OFF)	The YCP01 circuit board is out of order or malfunctions.	YCP01 circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the YCP01 circuit board from the CPU unit and reinstall it. (3)If the error occurs again, save the CMOS.BIN file to be safe and load the CMOS.BIN file saved before the error occurs. (refer to *4) (4))If the error occurs again, replace the CF card of the YCP01 circuit board after saving the CMOS.BIN file to be safe. After replacing the CF card, load the CMOS.BIN file saved before the error occurs. (refer to *4)
 *Message “Communication to controller is disconnected.”		A communication error has occurred between the YCP01 circuit board and the programming pendant.	Connection failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, check the connection and insertion status of the following cables and connectors. -The cable between the YCP01 circuit board (CN105) and the programming pendant -The connector of the YCP01 circuit board (CN105)
		The specified data cannot be read properly from the CF card in the YCP01 circuit board or an invalid value is specified.	Setting error	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the CF card from the YCP01 circuit board and reinstall it. (3)If the error occurs again, save the CMOS.BIN file, then load the CMOS.BIN file saved before the error occurs. (refer to *4) (4)If the error occurs again, replace the CF card of the YCP01 circuit board after saving the CMOS.BIN file to be safe. After replacing the CF card, load the CMOS.BIN file saved before the error occurs. (refer to *4)
		The robot I/F circuit board (YIF01) is out of order or malfunctions.	YIF01 circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the YIF01 circuit board from the CPU unit and reinstall it. (3)If the error occurs again, replace the YIF01 circuit board after saving the CMOS.BIN file to be safe. After replacing the circuit board, load the CMOS.BIN file saved before the error occurs. (refer to *2)
		The programming pendant is out of order or operating improperly.	Programmin g pendant failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, replace the programming pendant.

Screen status of programming pendant	7SEG LED for robot I/F circuit board (YIF01)	Assumed status	Cause	Remedy
 *When the power is turned ON, the maintenance mode starts though the mode is not selected.	'F'	The data in the robot I/F circuit board (YIF01) is invalid value.	Battery failure	(1)Check the connection and insertion status of the connector of the YIF01 circuit board (CN110/BAT). (2)If the LED of the YIF01 circuit board (D5/BAT) is ON, replace the battery. After replacing the battery, load the CMOS.BIN file saved before the error occurs. (refer to *5)
			Setting error	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the CF card from the YCP01 circuit board and reinstall it. (3)If the error occurs again, save the CMOS.BIN file, then load the CMOS.BIN file saved before the error occurs. (refer to *5) (4)If the error occurs again, replace the CF card of the YCP01 circuit board. (refer to *4)
		The robot I/F circuit board (YIF01) is out of order or malfunctions.	YIF01 circuit board failure	(1)Turn the power OFF then back ON. (2)If the error occurs again, remove the YIF01 circuit board from the CPU unit and reinstall it. (3)If the error occurs again, replace the YIF01 circuit board after saving the CMOS.BIN file to be safe. After replacing the circuit board, load the CMOS.BIN file saved before the error occurs. (refer to *2)

*1: Replacing the control power supply (YPS01)
For the replacement procedure, refer to *chapter 5.1.1 "Replacing Parts of the CPU Unit"* of the DX100 MAINTENANCE MANUAL.

*2: Replacing the robot I/F circuit board (YIF01)
For the replacement procedure, refer to *chapter 5.1.1 "Replacing Parts of the CPU Unit"* of the DX100 MAINTENANCE MANUAL.

*3: Replacing the YCP01 circuit board
For the replacement procedure, refer to *chapter 5.1.1 "Replacing Parts of the CPU Unit"* of the DX100 MAINTENANCE MANUAL.

*4: Replacing the CF card of the YCP01 circuit board
Replace it in the following procedure.

1. Prepare the CF card of the same version.
   Prepare the CF card written the same version of the software as the currently used CF card.
2. Remove the current CF card from the YCP01 circuit board.
3. Install the new CF card into the YCP01 circuit board.
4. Load the backup data in maintenance mode
   Copy the CMOS.BIN file saved in advance to the CF card for saving data, then insert the CF card into the programming pendant.
   Change the security mode to the management mode, then select {EX.MEMORY} ⇒ {LOAD} ⇒ “BATCH CMOS”.

*5: Loading the CMOS.BIN file
Replace it in the following procedure.

1. Load the backup data in maintenance mode
   Copy the CMOS.BIN file to the CF card for saving data after saving the CMOS.BIN file in advance, then insert the CF card into the programming pendant.
   Change the security mode to the management mode, then select {EX.MEMORY} ⇒ {LOAD} ⇒ “BATCH CMOS”.

*6: Replacing the whole CPU unit
Replace it in the following procedure.

1. Turn OFF the DX100 power supply.
2. Disconnect all the wirings from the CPU unit.
3. Replace the CPU unit to the new one.
4. Connect all the disconnected wirings to the new CPU unit.
5. Set the rotary switch and short pins of each circuit board in the CPU unit to the value same as the circuit board before the replacement.
6. Load the backup data in maintenance mode
   Copy the CMOS.BIN file to the CF card for saving data after saving the CMOS.BIN file in advance, then insert the CF card into the programming pendant.
   Change the security mode to the management mode, then select {EX.MEMORY} ⇒ {LOAD} ⇒ “BATCH CMOS”.

NOTE

Be sure to backup data after setting change in case the circuit board is out of order.

Backup data in the following procedure.

Insert the CF card for saving data to the programming pendant, and start the system in management mode, then select {EX.MEMORY} ⇒ {SAVE} ⇒ “BATCH CMOS”.

*Although backup of the individual data is not imperative, saving individual data is recommended to be safe in case something goes wrong.

Numerics

10A Glass-Tube fuse 5-33
2.5A Alarm fuse 5-33
24VDC fuse for I/O 5-23, 5-24, 5-35, 5-36, 5-37, 5-38, 5-39, 5-40, 5-41, 5-42, 5-43, 5-44, 5-45, 5-46, 5-47, 5-48
3.15A Glass-Tube fuse 5-33

A

absolute data allowable range error alarm 6-15
AC control power supply connector 5-11
AC Control Power Supply Fuse 5-22
AC cooling fan fuse 5-22
alarm 8-1
ALARM HISTORY 2-3
Alarm History Window 7-18
alarm level 8-1
AlarmHistory 7-18
ANALOG MONITOR 2-3
ARM CONTROL 2-3
axis data 8-3

B

backside duct fan 3-1, 3-4, 5-29, 5-30
battery 3-1, 5-30
Battery inspections 3-6
binary data 8-3
Brake Power Supply Fuse for External Axis 5-25

C

Changing the Absolute Data 6-7
changing the monitor items 7-24
Checking and Replacing Fuses 5-22
Circuit Breaker (QF1) Check 3-7
Clearing Absolute Data 6-7
clearing the alarm history 7-19
clearing the I/O message history 7-21
Clearing the System Monitoring Time Display 7-17
COMMAND POSITION 2-3
compact flash 5-2
connector for encoder signal 5-15
control group data 8-3
control power supply fuse 5-11
Converter control signal connector 5-20
cooling fan 3-4
Cooling Fan Construction (Small-, Medium- and Large-capacity DX100) 3-4
correlate voltage 3-6
CPU unit 5-2, 5-30
CREATE NEW JOB 2-2
Creating a Check Program 4-3
CURRENT POSITION 2-3
Current Position 7-23
Current Position Window 7-23

D

DATE/TIME 2-4
DC Control power supply connector 5-14, 5-20
decimal data 8-3
DELETE 2-3
DEVICE 2-3
Display of the drop value check window 7-28
displaying and releasing alarm 8-2
door lock 3-2
Drive I/F 5-2
DROP AMOUNT 2-3
DX100 controller 3-1
DX100 parts list 5-30

E

editing mode 2-1
emergency stop button 3-1
emergency stop button inspections 3-5
emote control connector 5-2
Enable switch 3-1
Enable switch inspections 3-5
ENCODER ROTATE SUM 7-24
error message list 9-1
ERROR PULSE 7-24
EX.MEMORY 2-3, 5-8, 11-10

F

FEEDBACK PULSE 7-24
FEEDBACK SPEED 7-24

G

ground wirings 5-10, 5-11, 5-12, 5-13, 5-18
GRP COMBINATION 2-4

H

HOME POSITION 2-3
home position 6-3
home position calibration 6-2
how to replace converter 5-20

I

I/O message history 7-20
I/O message history window 7-20
I/O MSG HISTORY 2-3
I/O Unit 5-30

IN 1 TURN POSITION 7-24
IN/OUT 2-2
independent control function (optional) 8-4
Individual Window of the System Monitoring Time Display 7-16
input power supply check 3-7
Input/Output Status 7-2
INTERFERENCE 2-3
interior circulation fan 3-1

J

JOB 2-2
JOB CAPACITY 2-2

K

KEY ALLOCATION 2-4

L

lead cable check 3-7
LIMIT RELEASE 2-3
LOAD 2-3

M

Machine Safety Unit 5-30
main power switch 3-2
major alarm 8-1
management mode 2-1
manipulator home position 6-9
manipulator model 7-1
MANIPULATOR TYPE 2-3
MASTER JOB 2-2
MAX. TORQUE 7-24
minor alarm 8-1
mode switch 3-5
Modification of the Signal Name 7-13
modifying the output status 7-4
MONITORING TIME 2-3
MOTOR ABSOLUTE 7-24
multiple SERVOPACK system 8-3

O

open phase check 3-7
OPERATE COND 2-4
operation mode 2-1
outline of alarm 8-1
OVERRUN&S-SENSOR 2-3

P

PARAMETER 2-4
position data when power is turned ON/OFF 7-22
position deviation check using the check program 6-10
power flow 1-5
POWER ON/OFF POS 2-3
power ON/OFF position window 7-22
power supply contactor unit 5-22, 5-30
power supply contactor unit fuse 5-30
power supply voltage confirmation 3-6
Program upload function 11-1
PWM signal connector 5-15

R

recommended spare parts 5-34
Regeneration register connecting connector 5-20
regenerative resistor connector 5-15
regular inspections 3-1
replacing parts 5-1
replacing parts of the CPU unit 5-2
replacing the control circuit board 5-3
replacing the CPU unit 5-7
replacing the I/O Unit 5-10
Replacing the Robot I/F Circuit Board 5-8
Replacing the SERVOPACK 5-14
RES. START (CNCT) 2-4
RES. START (JOB) 2-2
RES. STATUS 2-2
RESERVE JOB NAME 2-4
RIN input 7-7
RIN input window 7-7
ROBOT 2-3

S

SAVE 2-3
SECOND HOME POS 2-3
security mode 2-1
security system 2-1
SELECT JOB 2-2
SERVO MONITOR 2-3
servo monitor window 7-24
servo monitoring 7-24
SERVO ON 3-5
SERVO ON READY 3-5
SERVOPACK 5-14, 5-30
SET SPEED 2-4
SETUP 2-4
signal flow 1-6
Specific Input 7-5
Specific Input Simple Window 7-5
Specific Input Window 7-5
Specific Output 7-6
Specific Output Simple Window 7-6
Specific Output Window 7-6
SPEED DEVIATION 7-24

SPEED INST 7-24
supplied parts list 5-33
system diagnosis 7-1
SYSTEM INFO 2-3
System Monitoring Time Display 7-15
System Monitoring Time Display Window 7-15
system version 7-1

T

TEACHING COND 2-4
TOOL 2-3
TORQUE SPEC 7-24

U

Universal Input 7-2
Universal Input Simple Window 7-2
Universal Input Window 7-2
Universal Output Simple Window 7-3
Universal Output Window 7-3
USER COORDINATE 2-3
user ID 2-4, 2-7

V

VARIABLE 2-2
VERIFY 2-3
VERSION 2-3
voltage between earth (phase-S ground) 3-6

W

WAGO connector wiring tool 5-33
WAGO terminal block wiring tool 5-33
WORK HOME POS 2-3

X

XYZ coordinate data 8-3

DX100
MAINTENANCE MANUAL

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