DX100
MAINTENANCE MANUAL

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.

Part Number: 155492-1CD
Revision: 0

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. The representatives are listed on the back cover. 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 "WARNING," "CAUTION," "MANDATORY," or "PROHIBITED."

 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 "CAUTION" and "WARNING."

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⚠️ **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

 TURN

- **Observe the following precautions when performing teaching operations within the P-point maximum envelope of the manipulator:**

  – **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 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
Programming 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 simultaneously	**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 programming 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 key is pressed, or that the item is directly selected by touching the screen.

Explanation of Warning Labels

> ⚠️ **WARNING**
>
> - **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
> Moving parts may cause injury
>
> WARNING Label B:
>
> ⚠️ WARNING
> Do not enter robot work area.
>
> - **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*
>
> ⚠️ WARNING
> High Voltage
> Do not ope the cover.
>
> ⚠️ WARNING
> May cause electric shock. Ground the earth terminal based on local and national electric code.
>
> ⚠️ WARNING
> High Voltage
> Do not open the door with power ON.
>
> Internal Breaker

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)

Breaker NF32-SW
Machine safety unit: JZNC-YSU01-1E
Interior circulation fan: 4715MS-22T-B50-B00 (For air inlet)
Backside duct fan: 4715MS-22T-B50-B00 (For air inlet)
Emergency stop button: HW1B-V404R
Power supply contractor unit JZRCR-YPU01-1
Brake board JANCD-YBK01-1E
I/O Unit JZNC-YIU01-E
Covering plate
SERVOPACK: Refer to the following table.
Regenerative resistor: MRC22-125K-220W-12.5 (220W,12.5Ω)
(MXT) Robot system specified input terminal block
Robot I/Fcircuit board JANCD-YIF01-1
CPS Unit JZNC-YPS01-E
CPU unit: JZNC-YRK01-1E

Back View (without cover)
Front View Inside the Controller
Inside View of F Door
A-A' Section

Model	DX100	SERVOPACK (Converter Integrated)
MH5L	ERDR-MH0005L-A00	SRDA-MH5
MH6	ERDR-MH00006-A00	SRDA-MH6
MA1400	ERDR-MA01400-A00	SRDA-MH6
VA1400	ERDR-VA01400-A00	JZRCR-MH6-14/00 [1]
MA1900	ERDR-MA01900-A00	SRDA-MH20
HP20D	ERDR-HP0020D-A00	SRDA-MH20
HP20D-6		

1SRDA-MH6+SRDA-EAXB01A+SRDA-SDA14A01A-E

1-1

1.1.1.2   Medium and Large-Capacity DX100 Controller

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

Model	DX100	SERVOPACK	Converter
MH50	ERDR-MH00050-A00	SRDA-MH50	SRDA-COA12A01AU-E
MS80	ERDR-MS00080-A00	SRDA-MS80	SRDA-COA12A01AU-E
VS50	ERDR-VS00050-A00	JZRCR-MS80-71/00[1]	SRDA-COA12A01AU-E

1SRDA-MH80+SRDA-EAXB01A+SRDA-SDA71A01A-E

Fig. 1-3: Configuration of Large Capacity DX100 -A Controller (Standard)

Backside duct fan:
4715MS-22T
-B50-B00
(For air inlet)

Breaker
NF32-SW

Machine safety unit
JZNC-YSU01-1E

Interior circulation fan:
4715MS-22T-B50-B00
(For air inlet)

A

Emergency stop
button:
HW1B-V404R

Converter
Refer to the
following table.

Power supply
contactor unit
JZRCR-YPU01-1

Brake board
JANCD-YBK01-1E

SERVOPACK:
Refer to the
following table.

I/O Unit
JZNC-YIU01-E

(MXT)
Robot system
specified input
terminal block

Regenerative
registor
SMVK500W2R0J
A5978 X3
(1500W 6.0Ω)

Robot I/Fcircuit board
JANCD-YIF01-1

CPS Unit
JZNC-YPS01-E

A'

CPU Unit
JZNC-YRK01-E

Back View
(without cover)

Front View
Inside the Controller

Inside View of F Door

A-A' Section

Model	DX100	SERVOPACK	Converter
ES165D	ERDR-ES0165D-A00	SRDA-MS165	SRDA-COA30A01A-E
ES200D	ERDR-ES0200D-A00	SRDA-MS165	SRDA-COA30A01A-E

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	-
	EXTERNAL OUTPUT	Operation	-
	UNIVERSAL INPUT	Operation	-
	UNIVERSAL OUTPUT	Operation	-
	SPECIFIC INPUT	Edit	-
	SPECIFIC OUTPUT	Edit	-
	RIN	Edit	-
	CPRIN	Operation	-
	REGISTER	Edit	-
	AUXILIARY RELAY	Edit	-
	CONTROL INPUT	Edit	-
	PSEUDO INPUT SIG	Edit	Management
	NETWORK INPUT	Edit	-
	NETWORK OUTPUT	Operation	-
	ANALOG OUTPUT	Edit	-
	SV POWER STATUS	Edit	-
	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	Management
	USER COORDINATE	Edit	Edit
	HOME POSITION	Management	Management
	MANIPULATOR TYPE	Management	-
	ROBOT CALIBRATION	Edit	Edit
	ANALOG MONITOR	Management	Management
	OVERRUN&S-SENSOR[1]	Edit	Edit
	LIMIT RELEASE[1]	Edit	Management
	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
FD/CF	LOAD	Edit	-
	SAVE	Operation	-
	VERIFY	Operation	-
	DELETE	Operation	-
	DEVICE	Operation	Operation
	FOLDER	Edit	Management

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
	RS	Management	Management
	S1E	Management	Management
	S2E	Management	Management
	S3E	Management	Management
	S4E	Management	Management
SETUP	TEACHING COND	Edit	Edit
	OPERATE COND	Management	Management
	DATE/TIME	Management	Management
	GRP COMBINATION	Management	Management
	RESERVE JOB NAME	Edit	Edit
	USER ID	Edit	Edit
	SET SPEED	Management	Management
	KEY ALLOCATION[1]	Management	Management
	RES. START (CNCT)	Management	Management
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
HANDLING	HANDLING DIAGNOSIS	Operation	Edit
SPOT WELDING	WELD DIAGNOSIS	Operation	Edit
	I/O ALLOCATION	Management	Management
	GUN CONDITION	Management	Management
	POWER SOURCE COND	Management	Management

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

Main Menu	Sub Menu	Allowed Security Mode	
		DISPLAY	**EDIT**
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	Management
	POWER SOURCE COND.	Management	Management
GENERAL	WEAVING	Operation	Edit
	GENERAL DIAG.	Operation	Edit
COMMON TO ALL APPLICATIONS	I/O VARIABLE CUSTOMIZE	Operation	Operation

1   Teach mode only

2   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.

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

SUPPLE
-MENT

• 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

⚠ CAUTION
• **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

Main power switch

Door lock

Door lock

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

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.

Interior circulation fan

Air intake

Backside duct fan

Air outlet

Cooling Fan Construction
(Small-Capacity DX100)

Interior circulation fan

Air intake

Backside duct fan

Air outlet

Cooling Fan Construction
Medium-, and Large-Capacity DX100)

Cooling Fan Construction (Small-, Medium- and Large-capacity DX100)

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 CPS 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."

<div align="center">Mode switch with key</div>

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" at page 5-3*.

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:**

    – **View the manipulator from the front whenever possible.**

    – **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" at page 4-3*."

- Change in the combination of the manipulator and DX100

- Replacement of the motor or absolute encoder

- Clearing stored memory (by replacement of NCP01 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>

4-3

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 CPS unit. Do not touch any terminals during this period.**

  Failure to observe this warning may result in electric shock.

⚠ **CAUTION**

- **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.

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 (JANCD-YCP01-E) and robot I/F unit (JANCD-YIF01-☐E). CPS 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 CPS unit (JZNC-YRK01, JZNC-YPS01-E)

Connector 1 for connecting with CPU (CN158)
Connector 2 for connecting with CPU(CN159)

(CN156/CN157)
+24V2 Power supply output connector

Monitor, alarm display LED

(CN154/CN155)
+24V1/+24V2 Power supply outputconnector

(CN151)
AC power supply input connector

(CN152)
Remote control connector

CPS Unit

(CN114)
IO I/F (communication with YIU)

Specified PCI slot for sensor board X1

Robot I/F circuit board JANCD-YIF01-☐E

Control circuit board JANCD-YCP01-E

LED

(CN107)
Compact flash

(CN113)
Drive I/F (communication with EAXA)

(CN106)
USB

(CN105)
For programming pendant

(CN104)
For LAN

(CN103)
Serial Port (RS232C)

Battery

Ground connecting terminal

PCI Slot X2

CPU Unit

5.1.1.1   Replacing the Battery

Replace the battery immediately if a battery alarm occurs. Replace the battery within two hours after the breaker turns OFF.

(The battery alarms appear on the programing pendant display.)

■ **Replacement Procedure**

1. Remove the battery connector on the robot I/F circuit board and fixing screws below the battery to remove the battery.

2. Mount a new battery on the robot I/F circuit board and connect the connector (CN110/BAT).

> **NOTE**
>
> Although the CMOS memory is backed up by super capacitor, the battery must be replaced as soon as the battery alarm occurs.
>
> The job data and other data may be lost if the battery alarm occurs 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.

■ **Replacement Procedure**

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.

6. Tighten upper and lower screws.

7. Connect all disconnected cables.

Control circuit board
JANCD-YCP01-E

(CN107)
Compact flash

SOURCE
P-ON
+5V
+24V
FAN
OHT

CN159
(ALM)

CN158
(+5V)

CN156/157
(+24V2)

POWER SUPPLY
CPS-520F
NO. C90AD XXXXX
DATE YYYY-MM
Fuji Electric Hi-Tech Corp.
MADE IN JAPAN

CN155
(+24V1/+24V2)

CN154
(+24V1/+24V2)

CN153
(+24V3)

CN151
(AC IN)

INPUT
200-240V AC
50/60Hz
3.4A-2.8A

CN152
(REMOTE)

5.1.1.3   Replacing the Control Power Supply (JZNC-YPS01-E)

⚠ **CAUTION**

• **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 CPS unit.

2. Loosen upper screws (2 places) fixing the CPS unit to the controller.

3. Hold to remove the CPS unit itself by pulling out the power supply from the controller.

4. Insert the lower part flange of the new CPS unit into the fixing jig which is at the bottom of the controller.

5. Tighten upper screws.

6. Connect all the disconnected cables.

Controll Power supply
CPS UNIT(YPS)
JZNC-YPS01-E

Fixing jig for the flange

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

> NOTE
>
> - Turn OFF the power before replacing the robot I/F circuit board.
>
> - 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.
>
> - Before removing the robot I/F circuit board (JANCD-YIF01-□E) from the CPU rack temporarily, turn ON the system power and charge the onboard capacitor for one hour.
>   The CMOS data on the robot I/F circuit board are kept temporarily by the onboard capacitor power in the YIF board.
>   The capacitor is fully charged in one hour, and discharged in 16 hours when the I/F circuit board is removed from the CPU unit.
>   If the capacitor is discharged, the CMOS data will be cleared and all the system settings and user settings will be lost.

■ **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 {FD/PC CARD} ⇒ {SAVE} ⇒ "CMOS SAVE" 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 the system in maintenance mode and load the backup data.

Turn ON the power with pressing the [MAIN MENU] key.

Change the security to management mode and select {FD/PC CARD} ⇒ {SAVE} ⇒ "CMOS LOAD".

Rotary switch

Robot I/F circuit board
JANCD-YIF01-□E

SOURCE
P-ON
+5V
+24V
FAN
OHT

CN159
(ALM)

CN158
(+5V)

CN156/157
(+24V2)

POWER SUPPLY
CPS-520F
NO. C90AD XXXXX
DATE YYYY-MM
Fuji Electric Hi-Tech Corp.
MADE IN JAPAN

CN155
(+24V1/+24V2)

CN154
(+24V1/+24V2)

CN153
(+24V3)

CN151
(AC IN)

INPUT
200-240V AC
50/60Hz
3.4A-2.8A

CN152
(REMOTE)

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

> **NOTE**   Turn OFF the power before replacing the I/O 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)
   (Connect the ground wirings firmly.)

6. Connect all the disconnected cables.

7. 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-□)

■   **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)

■ **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.)

(CN405)
Brake command input connector

(CN404)
Connector for switching
the external power supply

(CN403)
Connector for brake power
supply input

(CN402)
Contactor interlock input connector

F1: Fuse
3A/250V

(CN400)
Brake output connector

Brake board (JANCD-YBK01-☐E)

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

■   **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.)

Machine Safety Unit (JZNC-YSU01-1E)

5.1.2   Replacing the SERVOPACK

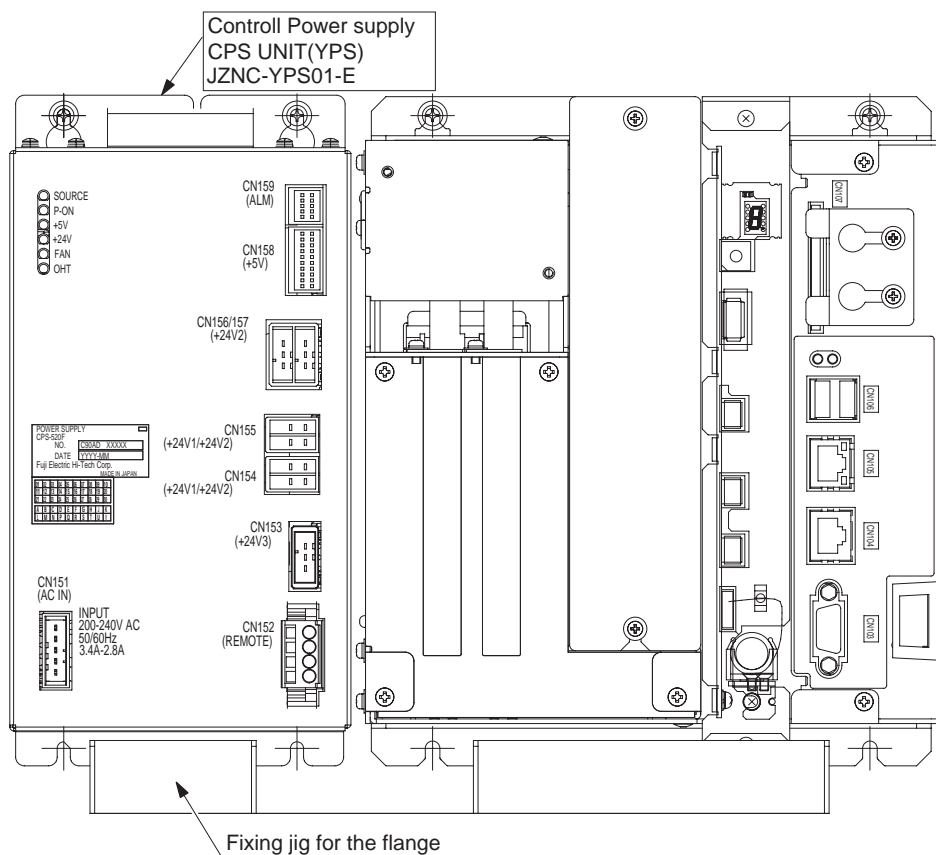> ⚠ **WARNING**
>
> • **After turning OFF the power supply, wait at least 5 minutes before replacing a SERVOPACK. Do not touch any terminals during this period.**
>
> Failure to observe this warning may result in electric shock.

There are two kinds of SERVOPACKs.

Type	Manipulator
Integrated Type	MH5L, MH6, MA1400, MA1900, HP20D, HP20D-6
Separated Type	MH50, MS80, VS50, ES165D, ES200DR

■ **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) Control power supply input connector (CN551)

   (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
                         upper right and lower left screws (2 places).

10. Mount thermal sheet to the new servo 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.

(CN551)
Connector for control power supply input

(CN553)
Connector for converter control signal

Monitor / Alarm displaying LED

(CN552A)
Control power supply output connector for 6-axis amplifier

Converter

(CN554)
Connector for grounding detection input

Ground terminal

(CN552B)
Control power supply output connector for external axis amplifier

(CN557)
Connector for connecting regenerative resistor

(CN556)
Main circuit power supply output connector for 6-axis amplifier

(CN555)
Connector for main circuit power supply input

(CN558)
Main circuit power supply output connector for external axis amplifier

Charge lamp

(CN510)
Control power supply output connector for converter

Upper grip

EAXA base fixing screw (upper)

EAXA base fixing screw (upper)

EAXA board

(CN513)
Connector for brake control signal

(CN512)
SHOCK signal input connector

(CN509)
Connector for control power supply input

(CN511)
Safety unit I/F connector

(CN508)
Connector for encoder signal

(CN514)
Direct-in connector

(CN518)
Control communication connector

(CN507)
Connector for converter control signal

(CN517)
I/O communication connector

(CN502)
AMP2 PWM signal connector

(CN501)
AMP1 PWM signal connector

(CN516)
Control communication connector

(CN504)
AMP4 PWM signal connector

(CN503)
AMP3 PWM signal connector

(CN515)
Control communication connector

(CN506)
AMP6 PWM signal connector

EAXA base

Ground terminal

EAXA base fixing screw (bottom)

(CN505)
AMP5 PWM signal connector

SERVOPACK

SERVOPACK

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AMP1

(CN584)
Output connectors for motor power
(CN583)
Main circuit power supply input connectors
(CN582)
Control power supply input connectors
(CN581)
PWM signal connectors   AMP3

(CN584)
Output connectors for motor power
(CN583)
Main circuit power supply input connectors
(CN582)
Control power supply input connectors
(CN581)
PWM signal connectors   AMP5

(CN582)
Control power supply input connectors
(CN581)
PWM signal connectors
(CN584)
Output connectors for motor power
(CN583)
Main circuit power supply input connectors

(CN582)
Control power supply input connectors

(CN581)
PWM signal connectors
(CN584)
Output connectors for motor power
(CN583)
Main circuit power supply input connectors   AMP2
(CN583)
Main circuit power supply input connectors
(CN584)
Output connectors for motor power
(CN582)
Control power supply input connectors
(CN581)
PWM signal connectors
AMP4
(CN583)
Main circuit power supply input connectors
(CN584)
Output connectors for motor power
(CN582)
Control power supply input connectors
(CN581)
PWM signal connectors

AMP6

Lower grip

Inside the EAXA Base

Amplifier fixing screw

Amplifier fixing screw

Amplifier fixing screw

Amplifier fixing screw

Amplifier fixing screw

IPM fixing screw

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の場合

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.

SRDA-SDA03A01A-E to
SRDA-SDA21A01A-E

Ditches

Thermal sheet

Bottom of the amplifier

Thermal sheet：400-004-453-01

SRDA-SDA35A01A-E to
SRDA-SDA71A01A-E

Bottom of the amplifier

Dich of the IPM

Thermal sheet

Dich of the IPM

Edge of the thermal sheet

Details of ditch part on IPM

Thermal sheet：400-004-452-01

Thermal Sheet Mounting Instruction

5.1.3   Replacing the Converter

Type	Manipulator
Integrated Type	MH5L, MH6, MA1400, MA1900, HP20D, HP20D-6
Separated Type	MH50, MS80, VS50, ES165D, ES200DR

■   **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) Control power supply input connector (CN551)

(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)

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
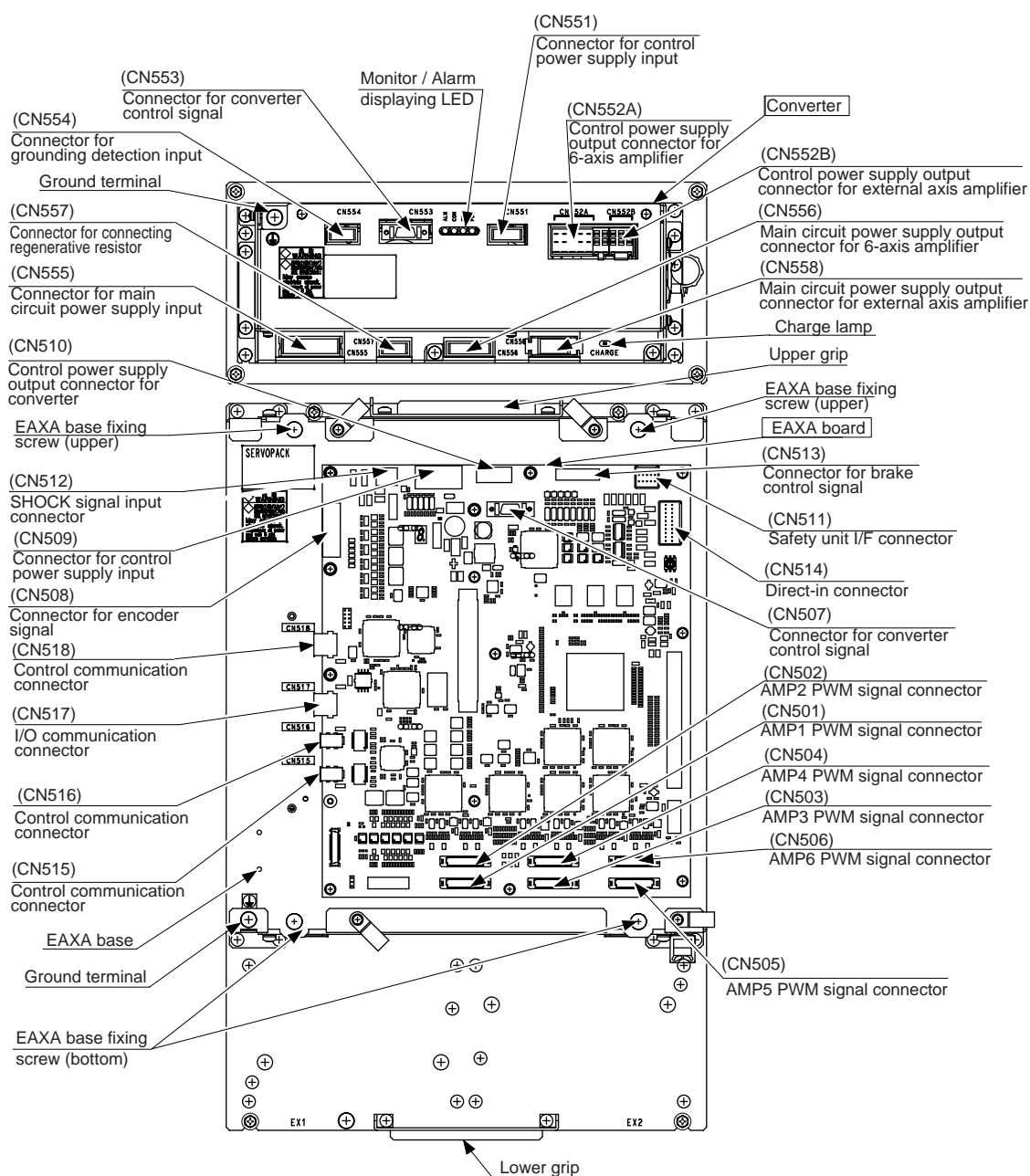
■ **Replacement Procedure (Separated Type)**
  • How to Replace Converter

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 (CN557Control power supply output connector for 6-axis amplifier (CN552A)

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

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

Turn OFF the power before replacing the circuit board.

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

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

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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).

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).

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)

F1: Brake power supply fuse for external axis

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).

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.

8. Close the F door.

Inside the Controller
Front View

F Door
Inside View

Interior circulation fan
4715MS-22T-B50-B00
(Air inlet)

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.

8. Mount the backboard.

Back board

Backside duct fan
4715MS-22T-B50-B00
(Air inlet)

Back View
(without cover)

Replacement of Backside Duct Fan

5.2　DX100 Parts List

Table 5-1: DX100 Parts List

No.	Name	Model	Comment
1	SERVOPACK	1)	6 axes type
2	CPU unit	JZNC-YRK01-1E	
	Control Circuit Board	JANCD-YCP01-E	
3	Robot I/F circuit board	JANCD-YIF01-1E	
4	CPS 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	
10	Backside duct fan	4715MS-22T-B50-B00	
11	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
12	Battery	ER6VC3N 3.6V	

1　The type of the SERVOPACK depends on the manipulator model.
　　For details, see the table "SERVOPACK List."

Table 5-2: SERVOPACK List

Component			MA1400, MH6	VA1400	MA1900, HP20D, HP20D-6
			Model	Model	Model
SERVOPACK			SRDA-MH6	JZRCR-MH6-14/00	SRDA-MH20
	Amplifier	S	SRDA-SDA14 A01A-E	SRDA-SDA14 A01A-E	SRDA-SDA14 A01A-E
		L	SRDA-SDA14 A01A-E	SRDA-SDA14 A01A-E	SRDA-SDA21 A01A-E
		U	SRDA-SDA14 A01A-E	SRDA-SDA14 A01A-E	SRDA-SDA14 A01A-E
		R	SRDA-SDA06 A01A-E	SRDA-SDA06 A01A-E	SRDA-SDA06 A01A-E
		B	SRDA-SDA06 A01A-E	SRDA-SDA06 A01A-E	SRDA-SDA06 A01A-E
		T	SRDA-SDA06 A01A-E	SRDA-SDA06 A01A-E	SRDA-SDA06 A01A-E
		E		SRDA-SDA14 A01A-E	
Converter			SRDA-COA12A01A-E	SRDA-COA12A01A-E	SRDA-COA12A01A-E

Component			MH50	MS80	VS50	ES165D, ES200D
			Model	Model	Model	Model
SERVOPACK			SRDA-MH50	SDA-MS80	JZRCR-MS80-71/00	SRDA-MS165
	Amplifier	S	SRDA-SDA71 A01A-E	SRDA-SDA71 A01A-E	SRDA-SDA71 A01A-E	SRDA-SDA71 A01A-E
		L	SRDA-SDA71 A01A-E	SRDA-SDA71 A01A-E	SRDA-SDA71 A01A-E	SRDA-SDA71 A01A-E
		U	SRDA-SDA35 A01A-E	SRDA-SDA71 A01A-E	SRDA-SDA71 A01A-E	SRDA-SDA71 A01A-E
		R	SRDA-SDA14 A01A-E	SRDA-SDA14 A01A-E	SRDA-SDA14 A01A-E	SRDA-SDA35 A01A-E
		B	SRDA-SDA14 A01A-E	SRDA-SDA14 A01A-E	SRDA-SDA14 A01A-E	SRDA-SDA21 A01A-E
		T	SRDA-SDA14 A01A-E	SRDA-SDA14 A01A-E	SRDA-SDA14 A01A-E	SRDA-SDA21 A01A-E
		E			SRDA-SDA71 A01A-E	
Converter			SRDA-COA12A01AU-E	SRDA-COA12A01AU-E	SRDA-COA12A01AU-E	SRDA-COA30A01A-E

5.3 Supplied Parts List

The supplied parts of DX100 is as follows.

Parts No.1 to 3 are used for fuse for replacement and No.4, 5and 6 are used as a tool for connecting the I/O.

Table 5-3: 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	WAGO Connector wiring tool		2	231-131 (WAGO Company of Japan, Ltd.)	JZNC-YPS01-E-CN152
5	WAGO Connector wiring tool		1	734-230 (WAGO Company of Japan, Ltd.)	JZNC-YIU0□¨-E-CN303 JZNC-YSU01-1E-CN211
6	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 5-4: Recommended Spare Parts List of DX100 for MH6, 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	CPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	2	2	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00	Minebea Co., Ltd	1	1	
A	4	Backside Duct Fan	4715MS-22T-B50-B00	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	
C	8	Converter	SRDA-COA12A01A-E	Yaskawa Electric Corporation	1	1	SERVOPAC: SRDA-MH6
B	9	Servo Amplifier 1, 2, 3	SRDA-SDA14A01A-E	Yaskawa Electric Corporation	3	3	
B	10	Servo Amplifier 4,5,6	SRDA-SDA06A01A-E	Yaskawa Electric Corporation	3	3	
B	11	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
C	12	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	[1]
B	13	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	14	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
B	15	Power Supply Contactor Board	JARCR-YPC01-1	Yaskawa Electric Corporation	1	1	
C	16	CPS Unit	JZNC-YPS01-E	Yaskawa Electric Corporation	1	1	
B	17	Brake board	JANCD-YBK01-1E	Yaskawa Electric Corporation	1	1	
C	18	Machine Safety Unit	JANC-YSU01-1E	Yaskawa Electric Corporation	1	1	
C	19	I/O Unit	JZNC-YIU01-E	Yaskawa Electric Corporation	1	1	
C	20	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 Unit
    (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-5: 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	CPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	2	2	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00	Minebea Co., Ltd	1	1	
A	4	Backside Duct Fan	4715MS-22T-B50-B00	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	
C	8	Converter	SRDA-COA12A01A-E	Yaskawa Electric Corporation	1	1	SERVOPAC? JZRCR-MH6-14/00
B	9	Servo Amplifier 1, 2, 3, 7	SRDA-SDA14A01A-E	Yaskawa Electric Corporation	3	4	
B	10	Servo Amplifier 4,5,6	SRDA-SDA06A01A-E	Yaskawa Electric Corporation	3	3	
B	11	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
B	12	External Axis Control Circuit Board	SRDA-EAXB01A	Yaskawa Electric Corporation	1	1	
C	13	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	[1]
B	14	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	15	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
B	16	Power Supply Contactor Board	JARCR-YPC01-1	Yaskawa Electric Corporation	1	1	
C	17	CPS 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	JANC-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
   Unit (JANCD-YIF01-1E). Must be ordered separately if required.

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

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	CPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	2	2	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00	Minebea Co., Ltd	1	1	
A	4	Backside Duct Fan	4715MS-22T-B50-B00	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	
C	8	Converter	SRDA-COA12A01A-E	Yaskawa Electric Corporation	1	1	SERVOPAC: SRDA-MH20
B	9	Servo Amplifier 1, 3	SRDA-SDA14A01A-E	Yaskawa Electric Corporation	2	2	
B	10	Servo Amplifier 2	SRDA-SDA21A01A-E	Yaskawa Electric Corporation	1	1	
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	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	15	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
B	16	Power Supply Contactor Board	JARCR-YPC01-1	Yaskawa Electric Corporation	1	1	
C	17	CPS 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	JANC-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
    Unit (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-7: 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	CPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	2	2	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00	Minebea Co., Ltd	1	1	
A	4	Backside Duct Fan	4715MS-22T-B50-B00	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	
C	8	Converter	SRDA-COA12A01AU-E	Yaskawa Electric Corporation	1	1	
B	9	Servo Amplifier 1, 2	SRDA-SDA71A01A-E	Yaskawa Electric Corporation	2	2	SERVOPAC: SRDA-MH50
B	10	Servo Amplifier 3	SRDA-SDA35A01A-E	Yaskawa Electric Corporation	1	1	
B	11	Servo Amplifier 4,5,6	SRDA-SDA14A01A-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	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	15	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
B	16	Power Supply Contactor Board	JARCR-YPC01-1	Yaskawa Electric Corporation	1	1	
C	17	CPS 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	JANC-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 Unit (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-8: 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	CPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	2	2	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00	Minebea Co., Ltd	1	1	
A	4	Backside Duct Fan	4715MS-22T-B50-B00	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	
C	8	Converter	SRDA-COA12A01AU-E	Yaskawa Electric Corporation	1	1	
B	9	Servo Amplifier 1, 2, 3	SRDA-SDA71A01A-E	Yaskawa Electric Corporation	3	3	SERVOPAC: SRDA-MS80
B	10	Servo Amplifier 4,5,6	SRDA-SDA14A01A-E	Yaskawa Electric Corporation	3	3	
B	11	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
C	12	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	[1]
B	13	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	14	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
B	15	Power Supply Contactor Board	JARCR-YPC01-1	Yaskawa Electric Corporation	1	1	
C	16	CPS Unit	JZNC-YPS01-E	Yaskawa Electric Corporation	1	1	
B	17	Brake board	JANCD-YBK01-1E	Yaskawa Electric Corporation	1	1	
C	18	Machine Safety Unit	JANC-YSU01-1E	Yaskawa Electric Corporation	1	1	
C	19	I/O Unit	JZNC-YIU01-E	Yaskawa Electric Corporation	1	1	
C	20	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 Unit (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-9: Recommended Spare Parts List of DX100 for VS50

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	CPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	2	2	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00	Minebea Co., Ltd	1	1	
A	4	Backside Duct Fan	4715MS-22T-B50-B00	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	
C	8	Converter	SRDA-COA12A01AU-E	Yaskawa Electric Corporation	1	1	
B	9	Servo Amplifier 1, 2, 3, 7	SRDA-SDA71A01A-E	Yaskawa Electric Corporation	3	4	SERVOPAC: JZRCR-MS80-71/00
B	10	Servo Amplifier 4,5,6	SRDA-SDA14A01A-E	Yaskawa Electric Corporation	3	3	
B	11	Basic Axis Control Circuit Board	SRDA-EAXA01A	Yaskawa Electric Corporation	1	1	
B	12	External Axis Control Circuit Board	SRDA-EAXB01A	Yaskawa Electric Corporation	1	1	
C	13	CPU Unit	JZNC-YRK01-1E	Yaskawa Electric Corporation	1	1	
B	14	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	[1]
C	15	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
B	16	Power Supply Contactor Board	JARCR-YPC01-1	Yaskawa Electric Corporation	1	1	
C	17	CPS 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	JANC-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
    Unit (JANCD-YIF01-1E). Must be ordered separately if required.

Table 5-10: Recommended Spare Parts List of DX100 for ES165, ES200D

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	CPS Unit Cooling Fan	JZNC-YZU01-E	Yaskawa Electric Corporation	2	2	
A	3	Interior Circulation Fan	4715MS-22T-B50-B00	Minebea Co., Ltd	1	1	
A	4	Backside Duct Fan	4715MS-22T-B50-B00	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	
C	8	Converter	SRDA-COA30A01A-E	Yaskawa Electric Corporation	1	1	
B	9	Servo Amplifier 1, 2, 3	SRDA-SDA71A01A-E	Yaskawa Electric Corporation	3	3	SERVOPAC: SRDA-MS165
B	10	Servo Amplifier 4	SRDA-SDA35A01A-E	Yaskawa Electric Corporation	1	1	
B	11	Servo Amplifier 5,6	SRDA-SDA21A01A-E	Yaskawa Electric Corporation	2	2	
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	Robot I/F circuit board	JANCD-YIF01-1E	Yaskawa Electric Corporation	1	1	
C	15	Power Supply Contactor Unit	JZRCR-YPU01-1	Yaskawa Electric Corporation	1	1	
B	16	Power Supply Contactor Board	JARCR-YPC01-1	Yaskawa Electric Corporation	1	1	
C	17	CPS 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	JANC-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 Unit (JANCD-YIF01-1E). Must be ordered separately if required.

6   Operations After Replacing Parts

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⚠️ **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:**

  – **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.

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⚠️ **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.

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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.

> **Home Position**
>
> SUPPLE -MENT
>
> The home position is the position with the pulse value "0" for each axis. See *chapter 6.1.3 "Manipulator Home Position" at page 6-9*.

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.

6-5

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.

B-axis center line angle against
U-axis center line (-0°)

U-axis angle against horizontal
line on the ground (-0°)

L-axis angle against vertical
line to the ground (-0°)

> **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)" at page 6-13*.

    – 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" at page 6-12*.

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)" at page 6-13*.

    – 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" at page 6-7* 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)" at page 6-13"*.

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:**

  – **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.

```
        ┌────────────────────────────────────────────┐
        │  "OUT OF RANGE (ABSO DATA)" alarm occurs   │
        └────────────────────────────────────────────┘
                            │
                            ▼
                 ┌────────────────────┐
                 │     Reset alarm    │
                 └────────────────────┘
                            │
                            ▼
                 ┌────────────────────┐
                 │ Turn ON servo power│
                 └────────────────────┘
                                              Procedure After Alarm Occurs
   ┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
                 ┌────────────────────────┐
   │             │  1, Position confirmation│◄────────────────────┐ │
                 │        operation        │
   │             └────────────────────────┘                       │ │
                            │
   │                        ▼                                      │ │
                      ╱           ╲
   │                 ╱   2,         ╲                              │ │
                    ╱ Compare second ╲        NG
   │              ╱  home position    ╲───────────►               │ │
                 ╲  (check point)*     ╱        ┌──────────────────┐
   │              ╲ pulses with current╱        │ Alarm occurs again│   │
                   ╲ position pulses  ╱         └──────────────────┘
   │                ╲               ╱                     │        │ │
                          │                               ▼
   │                   OK │             ┌─────────────────────────┐│ │
                          │             │ 3, Correct defective axis│
   │                      │             │    Replace PG system     ││ │
                          │             │    Home position calibration│
   │  Position checking point           └─────────────────────────┘│ │
   └ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─│─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
                          ▼
                 ┌────────────────────┐
                 │  Playback possible │
                 └────────────────────┘
```

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)" at page 6-17* .

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 [PAGE] ,

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.

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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" at page 7-22* 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.

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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.

7-1

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

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.

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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

7-7

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.

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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.

Signal name

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.

0

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 [PAGE] 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.

7-16

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.

7-17

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.

7-20

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.

7-21

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.

7-23

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.

7-25

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.

7-26

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: Robots 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 Alarm Message List

> ⚠️ **CAUTION**
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> • 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.
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> • 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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		20	No response was sent from the optional board #1 when the control power turned ON.	Setting error	(1)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

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
				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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		21	No response was sent from the optional board #2 when the control power turned ON.	Setting error	(1)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

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 to be safe. 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 baord #1. Therefore, execute the following measures first of all.	Setting error	(1)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 to be safe. 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	(1)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.
				YIF board failure	(1)Turn 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.
		52	No response was sent from the servo board #3 when the control power turned ON.	Setting error	(1)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.
				YIF board failure	(1)Turn 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.
		53	No response was sent from the servo board #4 when the control power turned ON.	Setting error	(1)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 to be safe. 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	(1)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 to be safe. 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	(1)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.
				YIF board failure	(1)Turn 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.
		56	No response was sent from the servo board #7.	Setting error	(1)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
				YIF board failure	(1)Turn 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.
		57	No response was sent from the servo board #8 when the control power turned ON.	Setting error	(1)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.
				YIF board failure	(1)Turn 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.
0021	COMMUNICATION ERROR(SERVO)	50	The communications CPU for the servo board #1 detected an error when the control power turned ON.	Setting error	(1)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 to be safe. 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	(1)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 to be safe. 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	(1)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 to be safe. 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	(1)Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (3) of the corresponding node number (SV#4)

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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		54	The communications CPU for the servo board #5 detected an error when the control power turned ON.	Setting error	(1)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
				YIF board failure	(1)Turn 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.
		55	The communications CPU for the servo board #6 detected an error when the control power turned ON.	Setting error	(1)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.
				YIF board failure	(1)Turn 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.
		56	The communications CPU for the servo board #7 detected an error when the control power turned ON.	Setting error	(1)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.
				YIF board failure	(1)Turn 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.
		57	The communications CPU for the servo board #8 detected an error when the control power turned ON.	Setting error	(1)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 to be safe. 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

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Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.
		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).

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.
		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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
				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.
0060	COMMUNICATION ERROR(I/O 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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		1	An error was detected in communications with the I/O module board connected with 1st serial bus when the control power turned ON.	Setting error	(1)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

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.
				YIF board failure	(1)Turn 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.
		2	An error was detected in communications with the I/O module board connected with 2nd serial bus when the control power turned ON.	Setting error	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		3	An error was detected in communications with the I/O module board connected with 3rd serial bus when the control power turned ON.	Setting error	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		4	An error was detected in communications with the I/O module board connected with 4th serial bus when the control power turned ON.	Setting error	(1)Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · 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 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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		5	An error was detected in communications with the I/O module board connected with 5th serial bus when the control power turned ON.	Setting error	(1)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

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.
				YIF board failure	(1)Turn 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.
		6	An error was detected in communications with the I/O module board connected with 6th serial bus when the control power turned ON.	Setting error	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		7	An error was detected in communications with the I/O module board connected with 7th serial bus when the control power turned ON.	Setting error	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		8	An error was detected in communications with the I/O module board connected with 8th serial bus when the control power turned ON.	Setting error	(1)Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode

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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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		9	An error was detected in communications with the I/O module board connected with 9th serial bus when the control power turned ON.	Setting error	(1)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

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.
				YIF board failure	(1)Turn 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.
		10	An error was detected in communications with the I/O module board connected with 10th serial bus when the control power turned ON.	Setting error	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		11	An error was detected in communications with the I/O module board connected with 11th serial bus when the control power turned ON.	Setting error	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		12	An error was detected in communications with the I/O module board connected with 12th serial bus when the control power turned ON.	Setting error	(1)Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · 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 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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		13	An error was detected in communications with the I/O module board connected with 13th serial bus when the control power turned ON.	Setting error	(1)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

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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.
				YIF board failure	(1)Turn 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.
		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	(1)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

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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		15	An error was detected in communications with the I/O module board connected with 15th serial bus when the control power turned ON.	Setting error	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		16	An error was detected in communications with the I/O module board connected with 1st PCI connector when the control power turned ON.	Setting error	(1)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 to be safe. 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	(1)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)

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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		18	An error was detected in communications with the I/O module board connected with 3rd PCI when the control power turned ON.	Setting error	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		19	An error was detected in communications with the I/O module board connected with 4th PCI when the control power turned ON.	Setting error	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
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	(1)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.

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 to be safe. 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	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
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	(1)Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (1) of the corresponding node number (SV#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 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 to be safe. 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	(1)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 to be safe. 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	(1)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 to be safe. 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	(1)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.
				YIF board failure	(1)Turn 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.
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	(1)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 to be safe. 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	(1)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.
				YIF board failure	(1)Turn 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.
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	(1)Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (4) of the corresponding node number (SV#5)

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 to be safe. 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	(1)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
				YIF board failure	(1)Turn 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.
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	(1)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.
				YIF board failure	(1)Turn 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.
		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	(1)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.
				YIF board failure	(1)Turn 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.
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	(1)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
				YIF board failure	(1)Turn 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.
		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	(1)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 to be safe. 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	(1)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.
				YIF board failure	(1)Turn 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.
		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	(1)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 to be safe. 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 to be safe. 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 to be safe. 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 to be safe. 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 to be safe. 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 to be safe. 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.

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 to be safe. 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 to be safe. 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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		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.

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 to be safe. 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 to be safe. 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 to be safe. 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.

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 to be safe. 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 to be safe. 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.
				YIF board failure	(1)Turn 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.
		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.

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 to be safe. 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 to be safe. 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 to be safe. 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.

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 to be safe. 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 to be safe. 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.

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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		3	Memory and pla 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.
				YIF board failure	(1)Turn 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.
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.

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 to be safe. 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	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		1	The DeviceNet allocation file 2 is damaged.	Setting error	(1)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 to be safe. 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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0290	MEMORY ERROR(NETWOR K 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.

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 to be safe. 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	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		4	Axis-related parameter error.	Setting error	(1)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.

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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		5	Sensor-use parameter error.	Setting error	(1)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 to be safe. 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	(1)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.

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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
		8	IO type error (combination impossible to coexist).	Setting error	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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	(1)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 to be safe. 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	(1)Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · 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 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 to be safe. 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	(1)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

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.
				YIF board failure	(1)Turn 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.
		4	The I/O module connected to the serial bus #4 is different from the function of the set I/O module.	Setting error	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		5	The I/O module connected to the serial bus #5 is different from the function of the set I/O module.	Setting error	(1)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 to be safe. 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	(1)Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · I/O module settings in maintenance mode

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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 to be safe. 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	(1)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

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.
				YIF board failure	(1)Turn 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.
		8	The I/O module connected to the serial bus #8 is different from the function of the set I/O module.	Setting error	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		9	The I/O module connected to the serial bus #9 is different from the function of the set I/O module.	Setting error	(1)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 to be safe. 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	(1)Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · 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 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 to be safe. 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	(1)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

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.
				YIF board failure	(1)Turn 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.
		12	The I/O module connected to the serial bus #12 is different from the function of the set I/O module.	Setting error	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		13	The I/O module connected to the serial bus #13 is different from the function of the set I/O module.	Setting error	(1)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 to be safe. 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	(1)Check the following settings. · The rotary switch setting which specifies slot numbers of each I/O module · 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 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 to be safe. 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	(1)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

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.
				YIF board failure	(1)Turn 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.
		16	The I/O module connected to the 1st PCI bus is different from the function of the set I/O module.	Setting error	(1)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 to be safe. 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	(1)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 to be safe. 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	(1)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)

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 to be safe. 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	(1)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 to be safe. 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.

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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0350	VERIFY ERROR(DEVICEN ET 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	(1)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 to be safe. 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	(1)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 to be safe. 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	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)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 to be safe. 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	(1)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 to be safe. 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	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0370	VERIFY ERROR(SPOT WELDER I/F)		The designation in the parameter is different from the connected welding timer.	Setting error	(1)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.

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 to be safe. 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	(1)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 to be safe. 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	(1)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

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 to be safe. 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	(1)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.
				YIF board failure	(1)Turn 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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		52	An error occurred during the parameter/file transfer to the 3rd servo board.	Setting error	(1)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 to be safe. 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	(1)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

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 to be safe. 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	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		55	An error occurred during the parameter/file transfer to the 6th servo board.	Setting error	(1)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.
				YIF board failure	(1)Turn 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.
		56	An error occurred during the parameter/file transfer to the 7th servo board.	Setting error	(1)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

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 to be safe. 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	(1)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.
				YIF board failure	(1)Turn 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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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	(1)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 to be safe. 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	(1)Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (1) of the corresponding node number (SV#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 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 to be safe. 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	(1)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
				YIF board failure	(1)Turn 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.
		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	(1)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.
				YIF board failure	(1)Turn 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.
		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	(1)Check the following settings. · Control group settings in maintenance mode · The EAXA board rotary switch setting (4) of the corresponding node number (SV#5)

Alarm

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 to be safe. 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	(1)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 to be safe. 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	(1)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 to be safe. 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	(1)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.
				YIF board failure	(1)Turn 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.
0420	DEVICENET ALLOC FL TRANSMIT ERR	1	The DeviceNet allocation file1 could not be transmitted to the specified station.	Setting error	(1)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

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 to be safe. 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	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0500	SEGMENT PROC NOT READY			Setting error	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0510	SOFTWARE VERSION UNMATCH	0		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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
0520	AXIS LIMIT OVER	0		Setting error	(1)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 to be safe. 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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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.
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 to be safe. 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.

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 to be safe. 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 to be safe. 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.
				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 to be safe. 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 to be safe. 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.

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 to be safe. 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.
				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 to be safe. 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.

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 to be safe. 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 to be safe. 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.
				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 to be safe. 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 to be safe. 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.

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 to be safe. 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.
				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 to be safe. 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.

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 to be safe. 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 to be safe. 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.
				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 to be safe. 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 to be safe. 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.

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 to be safe. 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.
				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 to be safe. 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.

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 to be safe. 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 to be safe. 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.
				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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
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 to be safe. 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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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.
				YIF board failure	(1)Turn 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.
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 to be safe. 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	(1)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
		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	(1)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	(1)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
		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	(1)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	(1)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
		9	An error was found in the type set for input direction of allocation configuration data.	Setting error	(1)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	(1)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	(1)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	(1)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	(1)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	(1)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	(1)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
		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	(1)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
		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	(1)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	(1)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
		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	(1)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	(1)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
		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	(1)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	(1)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
		42	In the output side setting of allocation configuration data, some of the M-registers of concurrent I/O are specified redundantly.	Setting error	(1)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	(1)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	(1)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
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 to be safe. 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 CP02 #1 board.	Setting error	(1)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 CP02 #2 board.	Setting error	(1)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 CP02 #3 board.	Setting error	(1)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
0904	WATCHDOG TIMER ERROR(YCP02#4)		A Watchdog timeout was detected in the CP02 #4 board.	Setting error	(1)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
0905	WATCHDOG TIMER ERROR(YCP02#5)		A Watchdog timeout was detected in the CP02 #5 board.	Setting error	(1)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 CP02 #6 board.	Setting error	(1)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 CP02 #7 board.	Setting error	(1)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
0908	WATCHDOG TIMER ERROR(YCP02#8)		A Watchdog timeout was detected in the CP02 #8 board.	Setting error	(1)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.
				YIF board failure	(1)Turn 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.
0911	CPU ERROR(YCP02#1)		An error was detected in the CPU.	Setting error	(1)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	(1)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
0913	CPU ERROR(YCP02#3)		An error was detected in the CPU.	Setting error	(1)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	(1)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	(1)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	(1)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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0917	CPU ERROR(YCP02#7)		An error was detected in the CPU.	Setting error	(1)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	(1)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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
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

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 to be safe. 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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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
				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 to be safe. 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.

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 to be safe. 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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
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

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 to be safe. 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 to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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.
				YIF board failure	(1)Turn 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.
1000	ROM ERROR(YCP01)			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).
1001	ROM ERROR(EAXA01)	10	A checksum error occurred in the board or the EEPROM.(***: axis No.)	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.
		20	The SRDY signal did not turn ON after the WRITE ENABLE command was written. (EEPROM WRITE ENABLE error)	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
		21	The SRDY signal did not turn ON after the WRITE PROTECT command was written. (EEPROM WRITE PROTECT error)	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.
		22	The SRDY signal did not turn ON after the ERASE command was written. (EEPROM ERASE error)	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.
		23	The SRDY signal did not turn ON after the CLEAR command was written. (EEPROM CLEAR error)	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.
		24	The SRDY signal did not turn ON after data were written. (EEPROM writing error)	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.
		25	The SRDY signal did not turn ON after data were read. (EEPROM reading error)	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
		26	The written data were rejected at verification. (EEPROM verify error)	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.
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.
				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.

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	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.
		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.

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	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.

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.
		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.
				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.

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.
		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.
		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.

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.
		15	SVxS 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.
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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.
		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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.
		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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.
		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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.
		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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
1053	SYSTEM ERROR(EVENT)		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).
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
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)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
				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)Reset the alarm.(In case of major alarm, turn 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.
		15	An error occurred in the encoder power supply control process.	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.
		21	A task request was sent to an axis in the alarm status.	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.
		23	A task request was sent to the general SERVOPACKs.	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.
		30	The linear servo float does not support the manipulator type specified in the RC parameter at calculation for servo-float-related parameters.	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).
		37	The manipulator (B-axis) passed the singular point while the linear servo float was ON.	Setting error	(1)Check the following settings. Correct the job so that the manipulator (B-axis) does not pass the singular point while the linear servo float is ON.
		47	The alarm number is illegal.	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
		52	An error occurred when gun control command is executed.	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.
		60	The axis endless function is set enabled for motor guns.	Setting error	(1)Check the following settings. Disable the corresponding axis endless function.
		100	The sequence was untimely executed in the general-purpose 10ms 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.
		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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.
		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).

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.
		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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		112	The sequence was untimely executed in the segment_OPT1 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.
		113	The sequence was untimely executed in the segment_OPT2 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.
		120	A general-purpose 10ms process did not complete within the time set on the scheduling table.	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.
		121	The segment_G process did not complete within the time set on the scheduling table.	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.
		123	The general-purpose 2ms process did not complete within the time set on the scheduling table.	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
		125	The dynamics calculation process did not complete within the time set on the scheduling table.	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.
		126	The dynamics compensation process did not complete within the time set on the scheduling table.	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.
		127	The CERF transmission process did not complete within the time set on the scheduling table.	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.
		128	The dynamics calculation process did not complete within the time set on the scheduling table.	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.
		129	The CERF receiving process did not complete within the time set on the scheduling table.	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
		130	The segment_R process did not complete within the time set on the scheduling table.	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.
		131	The segment_E process did not complete within the time set on the scheduling table.	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.
		132	The segment_OPT1 process did not complete within the time set on the scheduling table.	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.
		133	The segment_OPT3 process did not complete within the time set on the scheduling table.	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.
		151	The averaging time is not an even number. (times)	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).
		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)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
		500	Inconsistency of FP register.	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.
				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).
		1000	The check item number of SVD parameter is unmatched.	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).
		1001	The check item number of SV parameter is unmatched.	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).
		1002	The check item number of SVM parameter is unmatched.	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
		1003	The check item number of SVP parameter is unmatched.	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).
		1004	The check item number of AMC parameter is unmatched.	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).
		1005	The check item number of MFG parameter is unmatched.	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).
		1006	The check item number of MFA parameter is unmatched.	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).
		1007	The check item number of SVC parameter is unmatched.	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
		2100	The motioning software is not used with circuit board as target.	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).
		3000	The parameter number of the universal SERVOPACK is not valid.	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).
		4000	Execution of motion command did not complete within a certain time period.	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).
		7100	The override ratio is invalid.	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).
		7200	Interpolation cycle is shorter than the set value.	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
		7400	Buffer-related area for category 1 has not completed initialization.	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).
		3280 7	An error occurred in the first encoder communications.	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. ·EAXA01-CN508
1109	SYSTEM ERROR(CONVEY OR)				
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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				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.
				YIF01board broken	Save the CMOS.BIN file. Replace the YIF board, and then load the saved CMOS.BIN file.
1209	EXTERNAL WDT BROKEN(YIF01)		Sub Code 0000_0001: Error detected in PLD circuit 1 0000_0010: Error detected in PLD circuit 2 0000_0011: Error detected in PLD circuits 1 and 2	Circuit board broken	Replace the YIF01 board, and initialize the DX100 system configuration.
				Circuit board failure	Replace the YIF01 board, and initialize the DX100 system configuration.
1213	SAFETY CIRCUIT WDT ERROR(YIF01)		Sub Code 0000_0001: Error detected in PLD circuit 1 0000_0010: Error detected in PLD circuit 2 0000_0011: Error detected in PLD circuits 1 and 2	Setting error	Check the one of PPESP, PBESP, EXESP, and SAF signals.
				Circuit board failure	Replace the YIF01 board, and initialize the DX100 system configuration.
1219	ANOTHER PLD EXT WDT ERROR(YIF01)		Sub Code 0000_0001: Error detected in PLD circuit 1 0000_0010: Error detected in PLD circuit 2 0000_0011: Error detected in PLD circuits 1 and 2	Connection failure	Check the insertion and connection of the followings. · The wiring of the unmatched signal · YIF board
				Circuit board failure	Replace the YIF01 board, and initialize the DX100 system configuration.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1220	LAN COMMUNICATION PARAMETER ERROR	1	Incorrect setting of the IP address which is used in the Ethernet function.	Setting error	(1)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	(1)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	(1)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	(1)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	(1)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	(1)Check the following settings. · SNTP setting of network in maintenance mode
		32	Incorrect setting of the IP address of the SNTP server which is used in the Ethernet function of the SNTP.	Setting error	(1)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	(1)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	(1)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	(1)Check the following settings. · DNS setting of network in maintenance mode

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		73	Incorrect setting of the DHCP parameter which is used in the Ethernet function of the DNS.	Setting error	(1)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	(1)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	(1)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.	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
		3	An error occurred in the subnet mask 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).
				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 Ehternet 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.
		5	An error occurred in the host name setting process of the Ehternet 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
		6	An error occurred in the MAC address getting process of the Ehternet 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 Ehternet 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 Ehternet 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
		22	An error occurred in the FTP client task creating process of the Ehternet 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.
		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 Ehternet 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
		51	An error occurred in the FTP server task management ID getting process of the Ehternet 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).
				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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)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	(1)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.
		64	An error occurred in the subnet mask acquisition process in the DHCP of the Ethernet function.	Setting error	(1)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.
		65	An error occurred in the DNS server address acquisition process in the DHCP of the Ethernet function.	Setting error	(1)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	(1)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	(1)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.
		68	An error occurred in the IP address acquisition process in the DHCP of the Ethernet function.	Setting error	(1)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.
		69	An error occurred in the DHCP interface structure object mapping process of the Ethernet function.	Setting error	(1)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	(1)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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		71	An error occurred in the DNS resolver setting of the Ethernet function.	Setting error	(1)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	(1)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.
		73	The mode error occurred in the DNS resolver setting of the Ethernet function.	Setting error	(1)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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		80	An error occurred in the basic library initialization process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (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.
		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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)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)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
1300	SERVO CPU SYNCHRONIZING ERROR			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. · EAXA01-CN515 · YIF01-CN113
				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.
1301	COMMUNICATION ERROR(SERVO)	0	Communication status error	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. · EAXA01-CN515 · YIF01-CN113

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.
				YIF 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 YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN.
		1	Watchdog timer error	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. · EAXA01-CN515 · YIF01-CN113
				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.
				YIF 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 YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	JL0101 alarm	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. · EAXA01-CN515 · YIF01-CN113
				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.
				YIF 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 YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN.
		3	Communication status error	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. · EAXA01-CN515 · YIF01-CN113
				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
				YIF 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 YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN.
		4	Data consistency error	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. · EAXA01-CN515 · YIF01-CN113
				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.
				YIF 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 YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN.
				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
1302	COMMUNICATION ERROR(SERVO I/O)	1	No interrupt from servo I/O communications (JL098) occurred. (Communication loop back)	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. · EAXA01-CN517 · YSU01-CN202
				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.
		2	The servo I/O communications (JL098) received status is incorrect. (No interrupt)	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. · EAXA01-CN517 · YSU01-CN202
				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.
		4	The servo I/O communications (JL098) buffer switch status is incorrect. (Watchdog timer error)	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. · EAXA01-CN517 · YSU01-CN202

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.
		5	The servo I/O communications (JL098) receiving status is incorrect. (Command timeout)	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. ·EAXA01-CN517 ·YSU01-CN202
				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.
		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)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. ·AXA01-CN517 ·SU01-CN202
				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.

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Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF 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 YIF01 board. Save the CMOS.BIN before replace the board to be safe. 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)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. · EAXA01-CN517 · YSU01-CN202
				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.
				YIF 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 YIF01 board. Save the CMOS.BIN before replace the board to be safe. 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)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. · EAXA01-CN517 · YSU01-CN202

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.
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	(1)Check the following settings. Reexamine the tool file setting. (Check the units of mass and center of gravity, positive/negative signs.)
				Motor load error	(1)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	(1)Check the following settings. Check the parameter setting of external axis selection.
				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. tanaka saEAXA01-CN517 · YSU01-CN202

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.
1306	AMPLIFIER TYPE MISMATCH		Sub Code: Signifies the axis in which the alarm occurred	Setting error	(1)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)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. ·EAXA01-CN517 · YSU01-CN202
				Module failure(amplifier)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the amplifier.
				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
1307	ENCODER TYPE MISMATCH		Sub Code: Signifies the axis in which the alarm occurred	Setting error	(1)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)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the encoder.
				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).
1308	CONVERTER TYPE MISMATCH		Sub Code: Signifies the converter in which the alarm occurred	Setting error	(1)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 MII communications last station) Terminator · 24V power of the corresponding I/O module

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				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).
1309	HARDWARE ERROR(CONVERTER)			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.
1310	CHARGE ERROR(CONVERTER)			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.
				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)Reset the alarm.(In case of major alarm, 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)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the SERVOPACK.
1313	COMMAND ERROR(SERVO)			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).
1314	VERIFY ERROR(PARAMETER)(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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1315	SERVOPACK ERROR(SERVO)			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.
1316	COMMUNICATION WDT ERROR(SERVO)			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. · EAXA01-CN515 · YIF01-CN113
				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.
				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 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.
1317	COMMAND TIMEOUT(SERVO)			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).
1318	CANNOT EXECUTE COMMAND(SERVO)			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
1319	SERIAL ENCODER MODULE ERROR			Module failure(encoder)	(1)Reset the alarm.(In case of major alarm, 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)Reset the alarm.(In case of major alarm, 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.
1325	COMMUNICATION ERROR(ENCODER)		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
				Module failure(encoder)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (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 replace the board to be safe.
1326	DEFECTIVE ENCODER ABSOLUTE DATA		Sub Code: Signifies the axis in which the alarm occurred	Module failure(encoder)	(1)Check the following settings. Replace the defective motor (encoder). · Check the position after the alarm.

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.
				External environment	(1)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.
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)	(1)Check the following settings. Check whether to find error in the brake slip and the brake control relay.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1328	DEFECTIVE ENCODER		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
				Module failure(encoder)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (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 replace the board to be safe.
1329	DEFECTIVE SERIAL ENCODER COMMAND		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
				Module failure(encoder)	(1)Reset the alarm.(In case of major alarm, 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)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.
1330	MICRO PROGRAM TRANSMIT ERROR		Sub Code: Signifies the axis in which the alarm occurred	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.
1331	CONVERTER CHARGE ERR(CONVERTER)			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.
				Primary power failure	Check if the primary power supply voltage does not drop.
				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. · EAXA01-CN507,510 · EAXB01-CN08 · Converter CN551,553
1332	POSITION ERROR			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. · Check the position after the alarm.

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 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)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.
				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
				Noise interference	Check the following settings. · Check the grounding condition of Manipulator. · Install a ferrite core to the motor power line.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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)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)Reset the alarm.(In case of major alarm, 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)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.
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)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. · 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.
				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
		002	Command timeout (The first digit shows the converter No.)	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. · 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.
				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.
				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).
		003	Sent buffer FULL (The first digit shows the converter No.)	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. · EAXA01-CN507,510 · EAXB01-CN08 · Converter CN551,553

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Converter failure	Replace the converter.
				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.
				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).
		004	CRC-16 error (The first digit shows the converter No.)	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. · 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.
				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
				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).
		005	Error code received (The first digit shows the converter No)	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. · 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.
				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.
				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)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. · 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.
				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.
				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 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	Connection failure	Check if the unmatched two double-checked signals are in agreement.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1349	POWER LOST DETECTION(EAXA 01/02)			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)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
				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)Reset the alarm.(In case of major alarm, 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)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.
1355	SERIAL ENC MULTITURN LIMIT ERR		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
				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)Reset the alarm.(In case of major alarm, 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)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.
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.
1400	ENCODER ERROR(CONVEYOR)				
1401	CANNOT CHANGE CONVEYOR MODE				
1402	WORK IN/NOT DATA CNT. LMT. OVER				
1403	WORK IN/NOT SHIFT DATA POS LMT.				
1404	WORK ID. DATA CNT. LMT. OVER				
1405	WORK ID. SHIFT DATA POS LMT.				
1406	START SHIFT DATA CNT. LMT. OVER				
1407	START SHIFT DATA POS LMT.				

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1420	SYSTEM ERROR(BENDING)				
1421	ENCODER ERROR(LNR SCALE)				
1422	CANNOT CHANGE ENCODER INPUT				
1430	PRESS ENCODER ERROR				
1431	PRESS DATA RECEIVING ERROR				
1432	PRESS ENCODER DATA ERROR				
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	COMMUNICATION ERR(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 CPS power unit.
				CPS module failure	Check the cooling fan in the CPS power unit is working. Replace the CPS power unit.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				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 CPS power unit.
				CPS module failure	Replace the CPS 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)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
1530	ABSOLUTE DATA ERROR(SERVO2)			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.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.
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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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)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)Reset the alarm.(In case of major alarm, 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)Reset the alarm.(In case of major alarm, 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)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1535	WATCHDOG DETECTOR 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.
1536	CURRENT FB ERROR(U PHASE)(SV2)			Connection failure	Check the connection of motor power line.
				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.
1537	CURRENT FB ERROR(V PHASE)(SV2)			Connection failure	Check the connection of motor power line.
				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.
1538	INCR ENCODER INIT PULSE ERR(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)Reset the alarm.(In case of major alarm, 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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				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.
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)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.
1541	FC SERIAL ENCODER SUM ERROR(SV2)			Module failure(serial conversion unit)	Replace the serial conversion unit.
				Module failure(encoder)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the encoder.
				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.
1542	FC SERIAL ENCODER DATA ERR(SV2)			Module failure(serial conversion unit)	Replace the serial conversion unit.
				Module failure(encoder)	(1)Reset the alarm.(In case of major alarm, 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)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the SERVOPACK.
1543	MODULE 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.
1544	FC SERIAL ENCODE SCALE ERR(SV2)			Module failure(serial conversion unit)	Replace the serial conversion unit.
				Module failure(encoder)	(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.
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)Reset the alarm.(In case of major alarm, 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			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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Module failure(amplifier)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the amplifier.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, 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)Reset the alarm.(In case of major alarm, 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)Reset the alarm.(In case of major alarm, 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)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the SERVOPACK.
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)Reset the alarm.(In case of major alarm, 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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.
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)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the encoder.
				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.
1556	DEFECTIVE ENCODER IN-DATA(SV2)			Module failure(encoder)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the encoder.
				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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the encoder.
				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.
1558	ENCODER OVER SPEED(SERVO2)			Module failure(encoder)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the encoder.
				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.
1559	GATE ARRAY 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.
1560	SYSTEM 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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1561	BROKEN PG LINE(A/B PHASE)(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
				Noise interference	Check the noise source and take countermeasures to reduce the noise.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.
1562	BROKEN PG LINE(C PHASE)(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
				Noise interference	Check the noise source and take countermeasures to reduce the noise.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.
1563	MULTITURN LIMIT SET ERROR(SV2)			Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.
1564	COMMUNICATION ERR(ENCODER)(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
				Noise interference	Check the noise source and take countermeasures to reduce the noise.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1565	PARAMETER ERROR(ENCODER)(SERVO2)			Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.
1566	ECHOBACK ERROR(ENCODER)(SERVO2)			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
				Noise interference	Check the noise source and take countermeasures to reduce the noise.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.
1567	MULTITURN LIMIT NOT SAME(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.
1568	OPTION NOT SPECIFIED(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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1569	OPTION TIMEOUT(SERVO 2)			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.
1570	OPTION WDC ERROR(SERVO2)				
1571	COMMUNICATION WDT 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.
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)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the SERVOPACK.
1573	SERVOPACK BROKEN(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.
1574	INITIAL ACCESS 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.
1575	SERVOPACK WDC EROOR(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.
1576	COMMAND NOT EXECUTE(SERVO 2)			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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1577	MAIN CIRCUIT ANSWER ERROR(SV2)			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.
1578	SERVO MOTOR DISCONNECTION(SV2)			Connection failure	Check the connection of motor power line.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.
1579	SERVO MOTOR DISCONNECTION 2(SV2)			Connection failure	Check the connection of motor power line.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.
1580	OPTION I/F 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.
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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1582	CURRENT DETECTION ERROR(SERVO2)			Connection failure	Check the connection of motor power line.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.
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)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.
1584	POLE DETECTION 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.
1585	MOTOR LOAD POSITION ERROR(SV2)			Connection failure	Check the connection of mechanical combination.
1586	EXCEEDED POSITION DATA(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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1587	SCALE PITCH SETTING ERROR(SV2)			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.
1588	DIVIDING RATIO SETTING ERROR(SV2)			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.
1589	ENCODER MODEL UNMATCH(SERVO 2)			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)Reset the alarm.(In case of major alarm, 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)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the SERVOPACK.
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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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.
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)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)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	(1)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.
		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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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)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.
		2	Buffer size over	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.
1652	DB ON ERROR (SERVO)			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.
				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
1653	BASE BLOCK SIGNAL ERROR(SERVO)			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.
				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).
				Module failure(amplifier)	(1)Reset the alarm.(In case of major alarm, 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)Reset the alarm.(In case of major alarm, 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.
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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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)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
1665	MICRO PROGRAM SYNC. ERROR (SV)			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.
1666	FILE RECEIVE INCOMPLETE (SERVO)			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.
1667	RESOLUTION CONVERSE CONST ERR(SV)			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.
1668	CANNOT GENERATE GENERAL CMD (SV)			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.
1669	GENERAL SERVO CMD CODE ERR (SV)			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
1670	GENERAL SERVO SETTING ERROR (SV)			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.
1671	GENERAL SV ALARM CODE ERROR (SV)			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.
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)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.
1675	BASE BLOCK READ SIGNAL ERR (SV)			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
1676	BASE BLOCK WRITE SIGNAL ERR (SV)			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.
1677	U.PROG. BB READ SIG INCONSIST(SV)			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.
1678	MOTOR CMD POSITION ERROR (SV)			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.
1679	EXTERNAL BRAKE FUSE BROWN(SV)			YBK board failure	Replace the YBK01 fuse.
1680	GENERAL I/O FUSE BROWN(SV)			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.
1681	BRAKE POWER ERROR(SV)			YBK board failure	Check the power source of YBK01, and then if no fault is found, replace the brake unit.
1682	EXTERNAL BRAKE POWER ERROR(SV)			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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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.
				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.
				Module failure(amplifier)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the amplifier.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
1800	M-SAFETY SYSTEM ERROR(CPU1)	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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.
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.
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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1804	M-SAFETY SELF CHECK ERROR(CPU1)	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.
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.
				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	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.

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.

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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
	8	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
	8	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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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)
				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
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.

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.
1808	M-SAFETY SLAVE UNDEFINED(CPU 1)	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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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.
		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)	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.

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.
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.

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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.

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.

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.

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.

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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
	8	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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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(CPU 2)	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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				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.
				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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.
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 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
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 to be safe. 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 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
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 to be safe. 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 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
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 to be safe. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
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 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
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 to be safe. 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 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
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 to be safe. 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 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
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 to be safe. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
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 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
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 to be safe. 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 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
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 to be safe. 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 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
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 to be safe. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
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 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
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 to be safe. 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 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
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.
				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.
4025	MEMORY ERROR(INTERRU PT 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 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
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 to be safe. 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.
				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
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 to be safe. 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 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
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 to be safe. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
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 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
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 to be safe. 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 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
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.
				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.
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 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
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 to be safe. 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.
				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
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 to be safe. 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 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
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.
				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.
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 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
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 to be safe. 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.
				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
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 to be safe. 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 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
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.
				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.
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 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
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 to be safe. 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.
				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
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 to be safe. 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 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
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 to be safe. Replace the YIF board, and then load the CMOS.BIN saved before alarm occurred.
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 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
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 to be safe. 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 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
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.
				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.
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 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
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 to be safe. 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.
				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
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 to be safe. 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 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
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.
				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.
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 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
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 to be safe. 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.
				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
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 to be safe. 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 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
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.
				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.
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 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)			YPS power supply failure	Replace the YPS unit.
4100	OVERRUN IN ROBOT AXIS	1	Power-ON unit	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
				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.
				Overrun limit switch released	Check that the overrun limit switch is not activating.
				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		Power-ON unit	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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				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.(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.
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	(1)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	(1)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	(1)Check the following settings. ·The master job of the subtask is registered

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)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	(1)Check the following settings. ·Alarm occurrence status
		7	Synchronization task specification of SYNC instruction omit error	Setting error	(1)Check the following settings. ·Synchronization task specification of SYNC instruction
		8	The task is specified by synchronization task of SYNC instruction.	Setting error	(1)Check the following settings. ·Synchronization task specification of SYNC instruction
		9	I/O jog being executed	Setting error	(1)Check the following settings. ·I/O jog executing status Complete the I/O jog executing status, and then restart.
		10	Separate group axis being used	Setting error	(1)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	(1)Check the following settings. ·Servo power Turn ON servo power.
		12	Twin synchronous task ID error	Setting error	(1)Check the following settings. ·Twin synchronous task specification of SYNC instruction
		16	PSTART instruction is the old specification.	Setting error	(1)Check the following settings. ·The specifications of PSTART instruction Register the PSTART instruction as new specification.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		17	PWAIT instruction is the old specification.	Setting error	(1)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	(1)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: 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.(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
				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.(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.
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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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 setting of communication or transmission side data is correctly set.
		4	Heading length is too long.	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the setting of communication or transmission side data is correctly set.
		5	The header No. 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.
		6	The text length exceeded 256 characters.	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the setting of communication or transmission side data is correctly set.
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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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 setting of communication or transmission side data is correctly set.
		2	Received EOT while waiting ENQ.	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the setting of communication or transmission side data is correctly set.
		3	Received EOT before last block reception.	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	Received codes other than EOT after last block reception.	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the setting of communication or transmission side data is correctly set.
4116	TRANSMISSION SYSTEM ERROR		Sub Code 1: Sending data contents error 100: Trans error or protocol 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.
4118	FAN CIRCUIT PROTECTOR TRIPPED			Connection failure	Check if there is a ground fault or short circuit in the fan power line.
				Setting error	(1)Check the following settings. ·(After cancellation of the short-circuit and ground fault) Turn ON the circuit protector.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4121	COOLING FAN1 ERROR		Sub Code X······Servo board 1: Servo board1 (SV#1) 2: Servo board2 (SV#2) 3: Servo board3 (SV#3) 4: Servo board4 (SV#4) Y···Power-ON unit 1: Power-ON unit1 (TU#1) 2: Power-ON unit2 (TU#2) 3: Power-ON unit3 (TU#3) 4: Power-ON unit4 (TU#4) 5: Power-ON unit5 (TU#5) 6: Power-ON unit6 (TU#6)	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 X···Servo board 1: Servo board1 (SV#1) 2: Servo board2 (SV#2) 3: Servo board3 (SV#3) 4: Servo board4 (SV#4) Y···Power-ON unit 1: Power-ON unit1 (TU#1) 2: Power-ON unit2 (TU#2) 3: Power-ON unit3 (TU#3) 4: Power-ON unit4 (TU#4) 5: Power-ON unit5 (TU#5) 6: Power-ON unit6 (TU#6)	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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4123	COOLING FAN3 ERROR		Sub Code X□□□Servo board 1: Servo board1 (SV#1) 2: Servo board2 (SV#2) 3: Servo board3 (SV#3) 4: Servo board4 (SV#4) Y□□□Power-ON unit 1: Power-ON unit1 (TU#1) 2: Power-ON unit2 (TU#2) 3: Power-ON unit3 (TU#3) 4: Power-ON unit4 (TU#4) 5: Power-ON unit5 (TU#5) 6: Power-ON unit6 (TU#6)	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	(1)Check the following settings. ·File No. Specify the correct file number.
		2	The specified file set value is incorrect.	Setting error	(1)Check the following settings. ·File set value Specify the set value.
		3	Calibration could not be executed.	Setting error	(1)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.
		4	The communication port for the vision system could not be initialized.	Setting error	(1)Check the following settings. ·The Parameter for communication port
		5	Time-out occurred during data transmission.	Setting error	(1)Check the following settings. ·The communication setting of vision system

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				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	(1)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	(1)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	(1)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	(1)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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.
		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	(1)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	(1)Check the following settings. ·The prohibit status of source job If the source job is protected from editing, it cannot be edited.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		4	The converted job cannot be edited.	Setting error	(1)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	(1)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	(1)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	(1)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	(1)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	(1)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	(1)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).

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 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).
				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).

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.
		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).

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.
		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).

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.
		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).
				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).

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.
		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).

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.
		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).

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.
		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).
				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).

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.
		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).

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.
		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).

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 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).
				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).

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.
		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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		101	The re-initialization notification of illegal data was received in the UDP process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (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.
		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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
				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
		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.
4135	TOYOPUC RUN STOP	0		Setting error	(1)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	(1)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	(1)Check the following settings. ·Alarm code Specify the alarm in the range 8000 to 8999.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	Task specification error	Setting error	(1)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	(1)Check the following settings. ·Motion mode specification Set the motion mode to 0 or 1.
4138	WRONG EXECUTION OF SVON INST			Connection failure	(1)Check the following settings. ·Short-circuit the external servo ON (EXSVON) of MXT terminal block.
				Setting error	(1)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	(1)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	(1)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	(1)Check the following settings. ·The information of DIALOG instruction message and button
		3	Buttons are not registered.	Setting error	(1)Check the following settings. ·The information of DIALOG instruction button

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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).
				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
		4	The IP address error occurred in the SNTP process of the Ethernet function.	Setting error	(1)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	(1)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	(1)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.

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.
		8	Illegal parameters were found in the SNTP process of the Ethernet function.	Setting error	(1)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.
		9	The SNTP process of the Ethernet function was not successfully completed.	Setting error	(1)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	(1)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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		11	The error on getting of server address occurred in the SNTP process of the Ethernet function.	Setting error	(1)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	(1)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.
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 to be safe. 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.
		-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 to be safe. 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 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 to be safe. 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	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 to be safe. 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 to be safe. 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	(1)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 to be safe. 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	(1)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).

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 to be safe. 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).
				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 to be safe. 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).

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 to be safe. 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 to be safe. 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 to be safe. 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 to be safe. 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).

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 to be safe. 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	(1)Check the following settings. ·Delete unnecessary instructions and add new instructions again.
		-19	The number of steps added to a job exceeded 999.	Setting error	(1)Check the following settings. Delete unnecessary steps and add new steps again.
		-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 to be safe. 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
		-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 to be safe. 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 to be safe. 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 to be safe. 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 to be safe. 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
		-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 to be safe. 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.
		-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 to be safe. 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
		-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 to be safe. 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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
8		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)Check the following settings. ·Setting of EDIT LOCK in JOB header screen If the job is protected from editing, release the prohibition.
				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	(1)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
8			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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
8		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	(1)Check the following settings. ·The number of call job stacks Set the job configuration that decreases the number of call job stacks.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
8				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	(1)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	(1)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
8				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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
8		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
8		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 to be safe. 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).

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 to be safe. 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 to be safe. 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	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).

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 to be safe. 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 to be safe. 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).

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 to be safe. 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.
		-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 to be safe. 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).

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 to be safe. 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 to be safe. 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 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).

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 to be safe. 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 to be safe. 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).

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 to be safe. 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	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 to be safe. 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).

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 to be safe. 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 to be safe. 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	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).

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 to be safe. 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 to be safe. 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).

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 to be safe. 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.
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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
8		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
	8	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
8		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	(1)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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
8		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
8		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).
		11	Position data is not registered.	Setting error	(1)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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
8		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
8		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
8		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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).
		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).

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Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		11	The previous bank's prereading conversion could not correctly be completed.	Software operation error occurred	(1)Reset the alarm, and then try again. (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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)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	(1)Check the following settings. ·Set a positive value for the bending speed.
		40	Zero or a negative value is set for the bending stroke of the Following function.	Setting error	(1)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	(1)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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4209	OFFLINE SYSTEM ERROR(ARITH)	100	Data setting error 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).
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-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	(1)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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-3	The fixed control information is destroyed for memory play file system.	Software operation error occurred	(1)Reset the alarm, and then try again. (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).
		-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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-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	(1)Check the following settings. ·The gun electrode hits the welded target distance of motor gun ·manipulator motion (external force, gravity)
				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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				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	(1)Check the following settings. ·Setting of the RS (transmission) parameter
		100	The communication port is already opened.	Setting error	(1)Check the following settings. The serial port setting
		101	The communication port is not opened.	Setting error	(1)Check the following settings. The serial port setting
		102	No space was found in data sent buffer.	Setting error	(1)Check the following settings. The serial port setting
		103	The setting value for the event queue designation parameter is incorrect.	Setting error	(1)Check the following settings. ·RS157····Set to 1 to 4
		105	The type of output data is incorrect.	Setting error	(1)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.
					·Execute "RESTORE" by selecting "UTILITY" from the pull-down menu.
					*Occurance 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).

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	(1)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.
		2	An error occurred in the acquisition process of subnet mask during the network service data creation process of the Ethernet function.	Setting error	(1)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.
		3	An error occurred in the acquisition process of gateway during the network service data creation process of the Ethernet function.	Setting error	(1)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	(1)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	(1)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	(1)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	(1)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.	Setting error	(1)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.
		9	An error occurred in the newest DNS information getting process from DHCP server in the DNS process of the Ethernet function.	Setting error	(1)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.
		10	An error occurred in the setting process to update DNS information in the DNS process of the Ethernet function.	Setting error	(1)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	(1)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.
		20	The subnet mask was not able to be acquired in the DHCP information update process of the Ethernet function.	Setting error	(1)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	(1)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	(1)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	(1)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.
4300	VERIFY ERROR(SERVO PARAMETER)			Setting error	Check whether the setting is within the allowable range.
				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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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
				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.
4302	BRAKE CIRCUIT ERROR			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 replacing the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4303	CONVERTER READY SIGNAL ERROR		Sub Code: Signifies the physical No. of converter 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 inserting state of the following cables and connectors. ·YPU unit ·EAXA board CN512
				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.(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.
				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.
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.(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.

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. ·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.
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.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the SERVOPACK.
				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.(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. ·EAXA-CN501 to 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.(In case of major alarm, 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)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.
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.(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. ·The SERVOPACK motor power line connector ·The power cable connection of the manipulator cable.
				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.
				Mechanical failure	Check that the manipulator is not moving when the servo turned ON.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4308	VOLTAGE DROP(CONVERTER)		Sub Code: Signifies the physical No. of converter 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 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.
				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.
				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.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the encoder.
				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).
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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Module failure(encoder)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (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.
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.(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. [Robot axis] ·Cable between encoders ·EAXA-CN508 [External axis] ·Cable between encoders ·EAXB-CN0534,535,536
				Module failure(encoder)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the encoder.
				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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4312	ENCODER BATTERY ERROR			Module failure(encoder battery)	Replace the battery.
				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.(In case of major alarm, 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
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				Maintenance failure	Measure the density of grease iron powder in the speed reducer and do the maintenance.
				Defective speed reducer	Replace the speed reducer or the grease of it.
				Module failure(brake)	Check the brake voltage. Check that the brake is not locked by malfunction of contactor.
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			Setting error	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.(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. [Robot axis] ·Cable between encoders ·EAXA-CN508 [External axis] ·Cable between encoders ·EAXB-CN0534,535,536
				Module failure(encoder)	(1)Reset the alarm.(In case of major alarm, 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)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.
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.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the following cables. ·The wire harness in the robot.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.
				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.
				Interference error	Remove interference with the workpiece and peripheral device.
				Setting error	Correct the job whether load late does not exceed 100%.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				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.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the following cables. ·The wire harness in the robot.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.
				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.
				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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the following cables. ·The wire harness in the robot.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.
				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.
				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

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, replace the following cables. ·The wire harness in the robot.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.
				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.
				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.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.

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 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.
4327	WRONG MOTOR ROTATION		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 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.(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. ·The SERVOPACK motor power line connector ·The power cable connection of the manipulator cable.

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 replacing the board to be safe.
				Module failure(amplifier)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the amplifier.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.
				Module failure(brake)	Check the brake voltage. Check that the brake is not locked by malfunction of contactor.
4329	POSITION ERROR			Noise error	Eliminate the noise or take a countermeasure against the noise.
				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. [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
				XEI01 board 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. ·XEI01 board
				COV03 board 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. ·COV03 board
				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.
				Connection 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 following cables. ·Cable between the EAXB01 board and XEI01 board
4330	BROKEN SPEED MONITOR LINE			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. ·Speed monitor unit
4331	SPEED MONITOR LEVEL ERROR			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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4332	POSITION ERROR(SERIAL ENCODER)			Noise error	Eliminate the noise or take a countermeasure against the noise.
				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. [Robot axis] ·Cable between encoders ·EAXA-CN508 [External axis] ·Cable between encoders ·EAXB-CN0534,535,536
				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.
4334	OVERVOLTAGE(CONVERTER)		Sub Code: Signifies the physical No. of converter 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 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%).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Module failure(Regenerative resistor)	Replace the regenerative resistor.
				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.
				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.
				Overloading	Check that the load does not exceed the allowable limit.
4335	GROUND FAULT		Sub Code: Signifies the physical No. of converter 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 inserting state of the following cables and connectors. ·EAXA01-CN507,510 ·EAXB01-CN08 ·Converter CN551,553
				Connection 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 following cables. ·Manipulator cable ·Supply cable
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.

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 replacing the board to be safe.
				Module failure(contactor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the contactor.
				Module failure(Regenerative resistor)	Check if there is no ground fault in the regeneration resistors.
4336	OPEN PHASE(CONVERTER)		Sub Code: Signifies the physical No. of converter 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 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.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the contactor.
				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.(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.
4337	OVERCURRENT(AMP)		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 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.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the following cables. ·Manipulator cable ·Supply cable
				Module failure(amplifier)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the amplifier.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
				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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4338	REGENERATIVE TROUBLE(CONVERTER)		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 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.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the SERVOPACK.
				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.
				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%).
				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. ·EAXA01-CN507,510 ·EAXB01-CN08 ·Converter CN551,553

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				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.
				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.
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.(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. ·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.
				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.
				High ambient temperature	Adjust the ambient temperature to 40C°C° or less.
				Install failure	Check that the air inlet or outlet is not blocked.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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

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 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(SERVOF LOAT)			Setting error	Check the settings for jobs.
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.(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. ·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.(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.
4360	WAFER ALIGNMENT ERROR(SERVO)			Connection failure	Check the connection of prealigner.
4362	POWER SUPPLY READY ERROR(SERVO)			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. ·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 board. Save the CMOS.BIN before replacing the board to be safe.
				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
4363	BASE BLOCK SIGNAL ERROR(SERVO)			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. ·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 board. Save the CMOS.BIN before replacing the board to be safe.
				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).
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 S1CxG200 or 208) [Closed side] Reset the software limit at the gun closed side. Add the moving amount of electrode wear. (Parameter S1CxG200 or 208)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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.
4373	MAGNETIC POLE DETECTING ERROR			Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the linear encoder.
4374	PHASE DATA UNMATCH			Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the linear encoder.
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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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.
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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				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, 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 ·Replacement of the emergency stop button on the programming pendant and the cable that connects to the YSU unit

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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
				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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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
		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
		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
		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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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
		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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.
		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

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	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)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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)
		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)
		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)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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)
		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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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
		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)

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
	8	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
		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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.
		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
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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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 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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.
		26	CPU1 detected an error of external 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 external 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 external 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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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.
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".

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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.
		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, 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 ·Replacement of the emergency stop button on the programming pendant and the cable that connects to the YSU unit

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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
		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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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
		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
		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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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
				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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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)
		28	CPU2 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	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 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)
		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)

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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)
		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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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)
				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)

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
		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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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)
				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
		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

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	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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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)
				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
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 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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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 external 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.
		28	CPU2 detected an error of external 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 external 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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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)
				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".

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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)
				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.

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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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
				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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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.
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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
4402	UNDEFINED COMMAND(ARITH)			Software operation error occurred	(1)Reset the alarm, and then try again. (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
4404	ARITHMETIC ERROR	8	Interpolation such as linear and circular interpolation cannot be performed with this manipulator.	Setting error	(1)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	(1)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	(1)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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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	(1)Check the following settings. ·Check the settings for teaching position of circular interpolation steps so that each point is different.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4408	TWO STEPS SAME POSITION(SPLINE)			Setting error	(1)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	(1)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	(1)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	(1)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	(1)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	(1)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.
4416	PULSE LIMIT(MIN./MAX.)		Sub Code: Control group and axis	Setting error	(1)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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4418	CUBE LIMIT(MIN./ MAX.)		Sub Code: Control group and XYZ	Setting error	(1)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	(1)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	(1)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	(1)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	(1)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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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 then try again. (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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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	(1)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	(1)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	(1)Check the following settings. ·Set the number of local variables to be used in the job header.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		3	The real-number type variable is not defined.	Setting error	(1)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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Set the number of local variables to be used in the job header.
4436	LESS THAN 3 STEPS(CIRCULAR)			Setting error	(1)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	(1)Check the following settings. ·Perform teaching so that spline interpolation steps are continuous three points or more.
4438	UNDEFINED JOB			Setting error	(1)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.
4439	UNDEFINED LABEL			Setting error	(1)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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4440	UNDEFINED RETURN JOB			Setting error	(1)Check the following settings. ·If there is an illegal RET instruction 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	(1)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	(1)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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		5	A_BANK conversion has not been completed.	Software operation error occurred	(1)Reset the alarm, and then try again. (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 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).
4446	OVER VARIABLE LIMIT	0	The variable value exceeded the limit.	Setting error	(1)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	(1)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	(1)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	(1)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	(1)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	(1)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
		6	The value for the signed 4-byte data type variable is less than the minimum value.	Setting error	(1)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	(1)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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Check the settings for variable, and then correct the job to fall within the input range of the tag.
		32772	The value for the signed 2-byte data type variable exceeded the maximum value.	Setting error	(1)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	(1)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
		32774	The value for the signed 4-byte data type variable exceeded the maximum value.	Setting error	(1)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	(1)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	(1)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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Reset the value 0.1 Hz or more.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		6	When the timer mode is specified in the weaving file, a negative value is set for the timer value.	Setting error	(1)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	(1)Check the following settings. ·Set a positive value for the vertical and horizontal distance.
		8	The coordinate control axis designation for the reference point is different from actual control axis.	Setting error	(1)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	(1)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	(1)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	(1)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	(1)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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		16	Weaving synchronization file number selection range error	Setting error	(1)Check the following settings. ·Check the number of the weaving synchronizing file for use.
4449	UNMATCHED POSN VAR DATA TYPE			Setting error	(1)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	(1)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	(1)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	(1)Check the following settings. ·Confirm that the specified robot calibration file number is 1 to 32.
		4	An error occurred in tool calibration file number check.	Setting error	(1)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	(1)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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Confirm that the specified press characteristic file number is 0 to 3.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		12	An error occurred in conveyor calibration file number check.	Setting error	(1)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	(1)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	(1)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	(1)Check the following settings. ·Set the reference point.
4452	STACK MORE THAN 10 (JOB CALL)			Setting error	(1)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	(1)Check the following settings. ·Correct the job using the variable number within the range.
4454	UNDEFINED POWER SOURCE COND.			Setting error	(1)Check the following settings. ·Complete the settings for the arc welding characteristic file.
4455	UNDEFINED ARC START COND FILE			Setting error	(1)Check the following settings. ·Complete the settings for the welding start condition file.
4456	UNDEFINED ARC END COND FILE			Setting error	(1)Check the following settings. ·Complete the settings for the welding end condition file.
4457	WRONG WELDER SELECTION			Setting error	(1)Check the following settings. ·Check the settings for the reference unit of the welding voltage.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4459	EXCESSIVE INSTRUCTION EQUATION			Setting error	(1)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	(1)Check the following settings. ·Do not divide by zero.
4461	UNDEFINED AUTO-WELD RELEASE COND			Setting error	(1)Check the following settings. ·Check the settings for the number of times of welding release condition.
4462	UNDEFINED POSITION FOR ARC RETRY			Setting error	(1)Check the following settings. ·Check the settings for the move instruction following ARCON instruction.
4463	PARITY ERROR			Setting error	(1)Check the following settings. ·Check the settings for the parity data of the user I/O group.
4464	OVER BCD RANGE			Setting error	(1)Check the following settings. ·Correct the BCD data so that it is within the limit.
4465	OVER BINARY RANGE(PARITY CHECK)			Setting error	(1)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	(1)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	(1)Check the following settings. ·Do not use a coordinated motion with this manipulator.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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	(1)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	(1)Check the following settings. ·Teach the data for calibration so that each point is different.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)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	(1)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	(1)Check the following settings. ·Check the settings for number of the job steps
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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)Check the following settings. ·Set the reference point.
		2	The start point and end point are on the same point.	Setting error	(1)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	(1)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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4474	WRONG CONTROL GROUP AXIS		Sub Code:The related control-group	Setting error	(1)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	(1)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	(1)Check the following settings. ·Release the prohibition.
		1	An attempt was made to change the speed tag data.	Setting error	(1)Check the following settings. ·Release the prohibition.
		2	An attempt was made to change the board thickness tag data.	Setting error	(1)Check the following settings. ·Release the prohibition.
4477	SELECT ERROR(APPLICATION)		Sub Code: Application number	Setting error	(1)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	(1)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	(1)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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4486	PATH OVER			Setting error	(1)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	(1)Check the following settings. ·Check the settings for the cutting start position (zero pulse).
		2	Zero is set for the cutting radius.	Setting error	(1)Check the following settings. ·Check the settings for radius (a value bigger than zero).
		3	The cutting machine axis is not mounted.	Setting error	(1)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	(1)Check the following settings. ·Select an other cutting form.
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	(1)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	(1)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	(1)Check the following settings. ·Check the parameter setting that designates the Endless rotation axis.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		4	The Endless axis exceeded the maximum pulse value (+-536870911).	Setting error	(1)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	(1)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	(1)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	(1)Check the following settings. ·Match the control group designation of the wall point and weaving execution.
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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)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	(1)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	(1)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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4497	DEFECTIVE TAUGHT POINT(CALIB)	1	Some of the teaching points for master-group are on the same point.	Setting error	(1)Check the following settings. ·Perform the teaching again so that the teaching points are different from one another.
		2	Some of the teaching points for slave-group are on the same point.	Setting error	(1)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	(1)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	(1)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	(1)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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Check the settings for the job instruction with control group.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4499	UNDEFINED POSITION VARIABLE		Sub Code: The variable number	Setting error	(1)Check the following settings. ·Check the settings for the position type variable.
4500	UNDEFINED USER FRAME		Sub Code: User coordinate number	Setting error	(1)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).
				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	(1)Check the following settings. ·Register a step before the ARCON instruction.
4506	UNDEFINED POS FOR RESTART RETURN			Setting error	(1)Check the following settings. ·Check the settings for the job.
4507	REFP POS ERROR(SEARCH MOTION)			Setting error	(1)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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4508	SPECIFIED ERROR(COORDINATE)	0	The specified coordinate system does not exist.	Setting error	(1)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	(1)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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Check the settings for the coordinate system which can be used.
		6	Designation error of the conveyor coordinate system. This coordinate system cannot be used.	Setting error	(1)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	(1)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	(1)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	(1)Check the following settings. ·Check the settings for the coordinate system which can be used.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		11	Designation error of the coordinate system for the external reference point. This coordinate system cannot be used.	Setting error	(1)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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Check the settings for the coordinate system which can be used.
		16	Designation error of the H-LINK type cylindrical coordinate system. This coordinate system cannot be used.	Setting error	(1)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	(1)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	(1)Check the following settings. ·Execute the MFRAME instruction in coordinated job when you make the master tool user coordinate.
4510	CANNOT EXECUTE INSTRUCTION(SQRT)			Setting error	(1)Check the following settings. ·Check the job settings so that the second argument of SQRT instruction does not become negative.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4511	OUT OF RANGE(DROP-VALUE)		Sub Code: Control group exceeding the allowable value	Setting error	(1)Check the following settings. ·Confirm the load setting to the robot.
4512	TWO STEPS SAME LINE(3 STEPS)			Setting error	(1)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	(1)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	(1)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	(1)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	(1)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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Check the contents of changing data.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
4524	CANNOT EXECUTE INST(COUCUR JOB)			Setting error	(1)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	(1)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	(1)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	(1)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	(1)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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)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	(1)Check the following settings. ·Set the base axis specification of conveyor characteristic file to either 0, 1, or 2.
		2	No robot axis in the job for robot axis tracking	Setting error	(1)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	(1)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	(1)Check the following settings. ·Check the specification of conveyor condition file number for use.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)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	(1)Check the following settings. ·Set "Use state" of conveyor characteristic file to "1: Use."
4532	CONVEYOR SPEED DOWN		Sub Code: Conveyor number	Setting error	(1)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	(1)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	(1)Check the following settings. ·Check the settings for the resolution.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4534	TORQUE INTERFERENCE			Setting error	(1)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.
4535	TARGET VARIABLE TYPE UNMATCHED	0	An attempt was made to obtain the byte type system variable by the other type variable.	Setting error	(1)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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Obtain as the character-string type variable.
4539	CORNER R CONTROL ERROR	1	The Corner-R motion cannot be used for coordinated motion.	Setting error	(1)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	(1)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	(1)Check the following settings. ·Check the settings for teaching so that the Corner-R zone is not on a strait line.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)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	(1)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	(1)Check the following settings. ·Use a MOVL instruction when using the Corner-R motion.
		7	The Corner-R motion is disabled during weaving.	Setting error	(1)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	(1)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	(1)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	(1)Check the following settings. ·Do not perform the conveyor tracking when using the Corner-R motion.
4540	JOB QUE EMPTY ERROR			Setting error	(1)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	(1)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
4542	MRESET ERROR	1	An MRESET instruction was executed while no endless axis was designated.	Setting error	(1)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	(1)Check the following settings. ·Check the settings for the data of the character string to be extracted.
		2	The extraction start position exceeds the character string length at MID$ instruction execution.	Setting error	(1)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	(1)Check the following settings. ·Execute an INIEVNT instruction before executing an event related instruction.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4550	CANNOT EXECUTE INST(USER JOB)		Sub Code: System number	Setting error	(1)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	(1)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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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	(1)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).
		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	(1)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	(1)Check the following settings. ·Set the status of press characteristic file to be used in the job to "Used State."

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4569	UNDEFINED PRESS RESOLUTION DATA		Sub Code: Press characteristic file number	Setting error	(1)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	(1)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	(1)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	(1)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	(1)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	(1)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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Check the setting value of OG output number.
4583	CANNOT EXECUTE GUN TYPE			Setting error	(1)Check the following settings. ·Check the settings for the motion mode set to the gun.
4584	STRWAIT TIME LIMIT			Setting error	(1)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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Execute GUNCHG/PLACE instruction when the ATC is in chuck status.
		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	(1)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	(1)Check the following settings. ·Check the 1st gun axis selection signal setting.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		9	The right and left gun axis selection signals were duplicated when executing the twin-wrist gun change.	Setting error	(1)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	(1)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	(1)Check the following settings. ·Check the settings for the control-group of the job.
4589	ABRASION BASIS POS UNSETTING			Setting error	(1)Check the following settings. ·Resister the reference position of wear correction.
4590	NO SERVO HAND CONTROL GROUP			Setting error	(1)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).
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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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	(1)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	(1)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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Setting of the cutting speed
		7	Coordinated motion cannot be used with the Form Cutting motion.	Setting error	(1)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	(1)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 (S1CxG063) for the Form Cutting motion.	Setting error	(1)Check the following settings. ·The setting of the maximum diameter parameter (S1CxG064) 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	(1)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	(1)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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Setting of the teaching
		93	The averaging time at special circular interpolation motion is too short.	Setting error	(1)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	(1)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	(1)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	(1)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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
		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	(1)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	(1)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
		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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)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	(1)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.
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4598	PAINTOUT ERROR	1	The parameter setting for the universal input group number is incorrect.	Setting error	(1)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	(1)Check the following settings. ·Remove the cause of wire stick.
4604	SPECIFIED ERR(ABSO RECOVER AXIS)			Setting error	(1)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	(1)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 (S3C900) 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	(1)Check the following settings. ·Check the settings for execution macro job.
		2	The interrupt macro job is not set.	Setting error	(1)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	(1)Check the following settings. ·Check the settings for macro job.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
4608	WRONG EXECUTION OF GETARG INST	1	The job argument is not set.	Setting error	(1)Check the following settings. ·Check the settings for jobs.
		2	No number of the specified job argument	Setting error	(1)Check the following settings. ·Check the settings for jobs.
		3	The data types of job argument disagreed.	Setting error	(1)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	(1)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	(1)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	(1)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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)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).
		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	(1)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	(1)Check the following settings. ·Check the number of the memory play file for use.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)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	(1)Check the following settings. ·Record and then play.
		11	Correction amount to record is out of the allowable range.	Setting error	(1)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	(1)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).
		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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)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	(1)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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Set either "1" or "2" for PRM1 control method designation of the OPTON instruction.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		5	Incorrect designation of the control method for sealer gun control	Setting error	(1)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.
		6	Incorrect designation of the sealing width for sealer gun control	Setting error	(1)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	(1)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	(1)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	(1)Check the following settings. ·Correct the settings for the OPTON instruction tag so that value of the file number specification is 1 to 32.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Check the settings for the job registration table.
4620	ARM (TOOL) INTERFERENCE		Sub Code: Bit specification of interfered axis	Setting error	(1)Check the following settings. ·Check the teaching position setting of manipulators.
4621	WELD COMPLETE SIGNAL ERROR		Sub Code: Welder number	Setting error	(1)Check the following settings. ·Check the settings for welding completion signal.
4622	SELF-INTERFERENCE		Sub Code: Manipulator number	Setting error	(1)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	(1)Check the following settings. ·Check the settings for the GETPOS instruction.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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	(1)Check the following settings. ·Check the settings for the GETPOS instruction.
		3	The specified step did not exist.	Setting error	(1)Check the following settings. ·Check the settings for the GETPOS instruction.
4624	PLUG VOLUME SETTING ERROR			Setting error	(1)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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-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).
		-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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-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).
		-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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-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).
		-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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-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	(1)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	(1)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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Execute the GRPCHG instruction in chuck status.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		4	The group identification signal was not received.	Setting error	(1)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	(1)Check the following settings. ·Check the settings for the specified control group number.
		6	The encoder PG power supply was OFF when the GRPCHG was ON.	Setting error	(1)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	(1)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	(1)Check the following settings. ·Check the settings for group identification signal.
4630	DUPLICATED GUN NUMBER		Sub Code: The overlapped gun number	Setting error	(1)Check the following settings. ·Check the settings for gun numbers.
4631	DEFECTIVE OPERATION VELOCITY		Sub Code: Control group and axis	Setting error	(1)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	(1)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	(1)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	(1)Check the following settings. ·Reduce the bending speed. ·Reduce the manipulator moving distance.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4635	CANNOT EXECUTE COMMON JOB		Sub Code: The related control-group	Setting error	(1)Check the following settings. ·Check the settings for control group specified by the CALL instruction.
4636	THICKNESS ERROR		Sub code: Gun number	Setting error	(1)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	(1)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	(1)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	(1)Check the following settings. ·Set the conveyor moving amount for the SYMOVJ motion.
		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	(1)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	(1)Check the following settings. ·Check the settings for PSTART instruction.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		3	An attempt was made to disconnect a control group other than the occupation control group when executing a PSTART instruction.	Setting error	(1)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	(1)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).
		102	The specified welder number (system) could not be found.	Setting error	(1)Check the following settings. ·Confirm the specified welder number (system) and the setting.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4645	NOT PERMIT FIXED-WEAV ON SWVON			Setting error	(1)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	(1)Check the following settings. ·Set the palletizing condition setting file to "Completed."
		4	Palletize completion universal output number range exceeds the limit.	Setting error	(1)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	(1)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	(1)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	(1)Check the following settings. ·Reset the palletize completion universal output signal.
		8	Palletize end instruction is not registered.	Setting error	(1)Check the following settings. ·Register the palletizing end instruction.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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).
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	(1)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	(1)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	(1)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	(1)Check the following settings. ·Correct the settings for "groove width correction limit value" specified for S2C1259 and 1260.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4658	OVER SPEED LIMIT	1	The taught speed was going to exceed the limit during the multi arm simultaneous operation.	Setting error	(1)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	(1)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.
				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.
4662	PRESS SYNC ERROR				
4663	PRESS SYNC MOTION ERROR				

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4666	UNDEFINED WELD LENGTH CHECK FILE				
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			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

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4677	IMPOSSIBLE LINEAR MOTION		Sub Code: Control group and axis	Setting error	(1)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.
4680	SAFETY UNIT COMMAND ERROR				
4681	CUBE ARM INTERFERENCE		Sub Code: Interference cubic area number	Setting error	(1)Check the following settings. ·Check the teaching position setting of manipulators.
4682	MOTION RANGE LIMIT INTERFERENCE		Sub Code: Manipulator number	Setting error	(1)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	(1)Check the following settings. ·Check the teaching position setting of manipulators.
4684	INTERPOLATION INVALID		Sub Code: Control group	Setting error	(1)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)				
4686	DATA SETTING ERROR(SAFETY)				

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4687	OPERATION AREA MON. ERR 2(AXIS)				
4688	OPERATION MODE ERROR(AXIS)				
4689	OPERATION AREA MON. ERR 2(ROBOT)				
4690	OPERATION MODE ERROR(ROBOT)				
4691	OPERATION AREA SET ERR(SAFETY)				
4692	ENCODER BACKUP ERROR(SAFETY)				
4693	READBACK PROC. ERROR(SAFETY)				
4694	SPEED MONITOR ERROR 1(SAFETY)				
4695	SPEED MONITOR ERROR 2(SAFETY)				
4696	TURN TABLE CALIBRATION ERROR	1	There was the same point in three points where the calibration had been executed.	Setting error	(1)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	(1)Check the following settings. ·Check the calibration position so that the three taught points are not aligned in a straight line.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		3	The three points where the calibration had been executed lie in a straight line.	Setting error	(1)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).
		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	(1)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	(1)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	(1)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	(1)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
		8	The position data could not be converted correctly for the Cartesian incremental value at the offline arm bend position data conversion.	Setting error	(1)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	(1)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	(1)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	(1)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	(1)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.
	·	13	The position data could not be converted correctly for the revised conversion data at the offline arm bend position data conversion.	Setting error	(1)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).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		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).
4800	WDT ERROR(CONVERTER)		Sub Code: Signifies the physical No. of converter 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 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.(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.
4850	REGENERATIVE TROUBLE(SERVO 2)			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.(In case of major alarm, turn the power OFF then back ON.) (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.(In case of major alarm, turn the power OFF then back ON.) (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.(In case of major alarm, turn the power OFF then back ON.) (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.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the SERVOPACK.
				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. ·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.(In case of major alarm, turn the power OFF then back ON.) (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.(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. ·The motor power line ·The encoder line
4856	OVERLOAD(CONTINUE)(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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
				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. ·The motor power line ·The encoder line
4857	DB OVERLOAD(SEVO2)			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.
				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.(In case of major alarm, turn the power OFF then back ON.) (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.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the SERVOPACK.
				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.(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
				Connection failure	Check the connection of encoder backup battery.
				Voltage failure	Check the voltage.
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
4861	ENCODER OVERHEAT(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.
				Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
4862	SPEED A/D 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.
4863	TORQUE A/D 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.
4864	WRONG MOTOR ROTATION(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.

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. ·The motor power line ·The encoder line
				Module failure(motor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the motor.
4865	POSITION 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.
				Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
				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. ·The SERVOPACK motor power line connector ·The power cable connection of the manipulator cable.
4866	OPEN PHASE(SERVO2)			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. ·The SERVOPACK motor power line connector ·The power cable connection of the manipulator cable.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Voltage failure	Modify the primary breaker voltage to the specified voltage 200V(+10% to 15%).
				Module failure(contactor)	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the contactor.
				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.
				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.
4867	OVERLOAD WARNING(SERVO 2)			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.
				Setting error	Check the settings for manipulator motion condition (influence by external force, load condition).
				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. ·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.(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
				Setting error	Check the following settings. ·Manipulator motion condition (influence by external force, load condition) ·Regenerative resistor capacity
				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. ·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.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the SERVOPACK.
4870	MECHATROLINK COMMAND WARNING			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. ·MECHATROLINK communication cable
4871	MECHATROLINK2 COMMAND WARNING			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. ·MECHATROLINK communication cable
				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. ·MECHATROLINK communication cable

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				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.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the SERVOPACK.
4873	BATTERY WARNING(SERVO 2)			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.(In case of major alarm, turn the power OFF then back ON.) (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(SERVO 2)			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.
4901	CUBE/AXIS INTERFERENCE		Sub Code; Group, axis, and interference area number	Setting error	(1)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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4940	MOTION COMMAND CODE ERROR (SV)			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).
4941	CANNOT EXECUTE MOTION CMD (SV)			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).
4942	AVERAGING TIME CHANGE ERR (SV)			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).
4943	AVERAGING TIME ERROR (SERVO)			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).
4944	POSITION LOOP GAIN ERROR (SV)			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
4945	MOTION COMMAND DATA ERROR (SV)			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).
4946	PG POWER ON INCOMPLETE (SV)			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).
4947	SERVO ON MULTIPLE REQUEST (SV)			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).
4948	ENCODER ALARM (SERVO)			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).
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.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
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	Setting error	Check the settings for jobs.
4954	REALTIME STATUS S/R ERROR (SV)			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).
4955	AVERAGING DATA ERROR (SERVO)			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).
4956	AVERAGING SUM ERROR (SERVO)			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).
4957	AVERAGING STATUS ERR (SERVO)			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
4958	HIGH RESOLUTION PRM UNDEFINED(SV)			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).
4959	WRONG GRP CHANGE AXIS (SERVO)			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).
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.(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).
4962	BRAKE LOCK ERROR (SERVO)			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).
4963	BRAKE RELEASE ERROR (SERVO)			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
4964	CONST.SPD MEASURE MULTI REQ (SV)			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).
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.(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. ·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.(In case of major alarm, turn the power OFF then back ON.) (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	CONVTR POWER ERR(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.
4980	DESTINATION PULSE LIMIT			Setting error	(1)Check the following settings. ·Check the position setting for the step (move instruction) where the alarm occurred.
4981	DEST PULSE MECHANICAL LIMIT			Setting error	(1)Check the following settings. ·Check the position setting for the step (move instruction) where the alarm occurred.
4982	DEST MECHANICAL INTRF			Setting error	(1)Check the following settings. ·Check the position setting for the step (move instruction) where the alarm occurred.
4983	DEST MECHANICAL INTRF			Setting error	(1)Check the following settings. ·Check the position setting for the step (move instruction) where the alarm occurred.
4984	DESTINATION SELF-INTERFERENCE			Setting error	(1)Check the following settings. ·Check the position setting for the step (move instruction) where the alarm occurred.

9 Error

9.1 Error Message List

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.

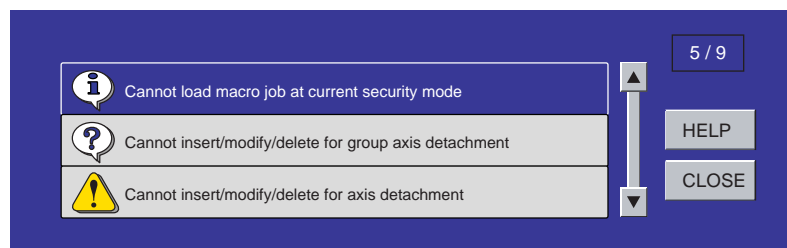To release the error, perform either of the following operations:

- 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).

Main Menu | ShortCut | Cannot insert/modify/delete for axis detachment

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.

1. To view details of the selected error contents, select "HELP."

2. To close the error list, select "CLOSE."

3. To release all the errors, press [CANCEL].

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	
350	-	Cannot initialize	
360	-	Teach point not specified	
370	-	No SYNCRO operation	
380	-	Position not checked	Second home position was not checked.
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	
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	

Error No.	Data	Error Message	Contents
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.	
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	
750	-	Undefined Name Position	
760	-	Error in start condition set	

Error No.	Data	Error Message	Contents
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	
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	
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
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	
2370	-	Cannot cut/copy NOP and END instructions	
2380	-	Wrong JOB selection	

Error No.	Data	Error Message	Contents
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	Lazor 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	
2620	-	Cannot correct play speed in the JOB	
2630	-	Conveyor position not reset	
2640	-	Incorrect JOB name	

Error No.	Data	Error Message	Contents
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/delet 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.	

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		Raddar 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
	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	
3501	-	Check the media insertion	

Error No.	Data	Error Message	Contents
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	

10   LED Indicator on Circuit Board

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"* .

Battery alarm
LED lamp

7-segment
LED indicator

10.3 7 SEG-LED Indicator

The following tables show the operating statues for JANCD-YIF01/SRDA-EAXA01/JANCD-YCP02. The operating statuses are indicated by 7 SEG-LED.

[Normal Indication]

Status	DX100		
	YIF01	EAXA01	YCP02
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.		

[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

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.

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

YNIF01

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 brakepoint 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)

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 brakepoint exception
1400	System management interruption
1500	Undefined exception
1600	Undefined exception
1700	Undefined exception
1800	Undefined exception

YCP02

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
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

Numerics

A

B

C

D

E

F

G

H

I

L

M

O

P

R

X

DX100
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