

INSTRUCTION MANUAL

SINKER EDM

ALARM MESSAGE

(ALARM, WARNING, GUIDE)



1807-202305V1

PRECAUTIONS

1. Functions not covered by this manual, in general, cannot be executed.
2. The notes provided in this manual must be observed.
(Otherwise, the function may not be executed correctly or the system could be adversely affected.)
3. Specifications are subject to change for improvement without notice.
4. Please contact us if you have any uncertainty about the manual.

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1. COMMENT OF MESSAGE DESCRIPTION

Section 2. Description of Messages provides description of all messages in the order of message numbers.

No.	Name	Level	Reset

Description:
Cause:
Remedy:

No.: Indicates alarm No.

Name: Messages displayed on screen.

Level: Indicates level of trouble remedy. (See the Trouble Remedy List on the next page.)

"Guide" : Displays message in white letters.

"Warning 1 to 3": Displays message in yellow letters.

"Alarm 1 to 3" : Displays message in red letters.

Note: When two or more levels exist, it is written as "Warning 1/3" (Warning 1 or Warning 3).

Reset: Indicates resetting method of trouble occurred. (See the next page.)

Description: Indicates description of trouble.

Cause : Indicates causes of trouble.

Remedy : Indication how to remove trouble.

* The screen displays No. and Name.

[Example] 0001: EMERGENCY STOP

1.1 Trouble Remedy List

Classifi- cation of trouble	Level	Trouble remedy (minor ←→ major)						
		Guide display	Diagnosis list display	Warning buzzer on	Divide stop	Alarm (stop)	Machining generator off	Servo off
Alarm	Alarm 3	○	○	○	○	○	○	○
	Alarm 2	○	○	○	○	○	○	
	Alarm 1	○	○	○	○	○	○	
Warning	Warning 3	○	○	○	○			
	Warning 2	○	○	○				
	Warning 1	○	○					
Guide	Guide	○						
Dialog Message	Dialog	○	Operation cannot continue					

1.2 Alarm, warning, and guide resetting method

- (1) Alarm 1, 2, 3 : Press [RESET] key.
- (2) Warning 1, 2, 3 : Press [WARN RESET] key.
- (3) Guide : Press [WARN RESET] key.

Note: Warning 1, 2, 3, or guide can be reset even by pressing [RESET] key.
 However, the two keys have different functions as listed below.
 Pay attention, therefore, to operation of these keys.

[WARN RESET] : Deletes message and can continue action.

[RESET] : Deletes message and stops action at this time.
 Cannot continue action again.

1.3 Alarm Numbers

Numbering	Description
0001-0999	(Emergency stop level)
1000-1999	(NC program errors)
2000-2999	(Machine controlling error)
3000-3999	(Machining generator error)
4000-4999	(Machine alarm)
5000-5999	(EIS alarm)
6000-6999	(Man-machine system message)
7000-7999	(Driver detection alarm)
10000-	(AVOH Alarm Message)

1.4 Confirming Name of Trouble

When a fault (alarm, warning, etc.) has occurred, confirm its Message No. /Name on the Diagnosis screen.

Note: (1) If two or more alarms are given simultaneously, the last alarm message is displayed.
(2) Number of alarm or warning is displayed above "Machining Condition Area" on screen.
(3) A list of Message No./Name or Warning No./Name is displayed on Alarm/Warning screen.

1.5 Confirming Troubling Process Conditions

Check the following, before you contact us of the faults.

- (1) Confirm "When" "How" "What" fault happened.
- (2) Confirm the Alarm or Warning Message No. and Name, referring to the Diagnosis screen or DIALOG BOX because of two or more alarms and warning may have occurred.
- (3) In case of automatic operation, Confirm Program No., Sequence No. and the program.
- (4) In case of manual operation, Confirm the operational condition (also the operating procedure).
- (5) Confirm the repeatability of the fault.
- (6) Run another program or change the operational procedure, then confirm whether other operational conditions cause the same fault or not.

* When "No Text FOR MESSAGE" or "NPC SYSTEM ERROR" occurs, confirm the fault conditions and message No. before contacting us.

1.6 Operation Buttons and Keyboard

The operation buttons and keyboard are different in notation between ES100A and MGH generators (see table below).

As this manual gives descriptions using the notation for the MGH generator, understand the operation buttons and keyboard by applying the notation for the ES100A generator.

ES100A generator	MGH generator	Description
START (Portable operation panel only)	START (Main operation panel & portable operation panel)	Starts automatic operation
STOP	STOP	Stops functional operation
RESET	RESET	Resets the alarm
WARN RESET	WARN RESET	Resets the warning and guide
BUZZER OFF	BUZZER OFF	Stops buzzer sounding
	SEARCH	Command key for search
DEL	ERASE	Command key for erasure
	ADD IN	Command key for addition
HELP	HELP	Help display
PAGE UP	+	Page changeover (+)
PAGE DOWN	–	Page changeover (–)
OT RELEASE (Main operation panel)	OT RELEASE (NC FUNC screen)	Over travel release key
	OT RELEASE (Main operation panel) [CE machines]	

2. DESCRIPTION OF MESSAGES

A0001

No.	Name	Level	Reset
0001	EMERGENCY STOP	Alarm 3	See Remedy

Description: The EMERGENCY STOP switch was on (EIO group No.23 bit0 *E)

Causes:

- (1) The EMERGENCY STOP BUTTON was pressed.
- (2) $\pm X$, $\pm Y$, or $\pm Z$ axis was overrun and the over travel limit switch was actuated.
- (3) Fire Extinguisher operation.

Remedy:

- (1) Release the EMERGENCY STOP BUTTON.
 - (2)
 - [1] Press both, [OT RELEASE] first and then followed by [RESET] keys on the main operation panel.
 - [2] Keep pressing [OT RELEASE] key and release [RESET] key. If [OT RELEASE] key is released accidentally, repeat from [1] again.
 - [3] Keep the [OT RELEASE] key pressed, move away the axis from the over travel limit switch by the portable operation panel.
- Note: Take care at this time not to move the axis in the opposite direction (dangerous side).
- (3) Please reset a fire extinguisher function, when there are no abnormalities of the machine. The sensor is suspected faulty when it functions frequently. Call us for repair after checking the input signal.
- After executing (1) to (3) above, press the [RESET] key, and make reference point return.

A0002 A0004

No.	Name	Level	Reset
0002	NC, +24V DC DROP	Alarm 3	See Remedy
0003	NC, +15V DC DROP	Alarm 3	See Remedy
0004	NC, -15V DC DROP	Alarm 3	See Remedy

Description:

DC +24V power voltage of the NC unit dropped abnormally (19V or less).

DC +15V power voltage of the NC unit dropped abnormally (11V or less).

DC -15V power voltage of the NC unit dropped abnormally (-8V or more).

Causes:

- (1) Faulty DC regulated power supply.
- (2) Shorted generator line.

Remedy: Defective card.

Alarm related to generator (faulty power unit). Please contact to us.

A0005

No.	Name	Level	Reset
0005	FLAME SENSOR ON	Warning 3	See Remedy

(Option)

Description: The FLAME SENSOR was on (EIO group No.24 bit5 *FLM=0).

Causes: The flame sensor is activated by sensing fire.

Remedy:

- (1) If the machine operates normally, reset the sensor and restart the machine.
- (2) The sensor is suspected faulty when it is activated frequently.
Call us for repair after checking the input signal.

A0006

No.	Name	Level	Reset
0006	EARTHQUAKE SENSOR ON	Alarm 3	See Remedy

(Option)

Description: The EARTHQUAKE SENSOR was on (EIO group No.24 bit6 *EQ=0).

Causes: The earthquake sensor is activated by sensing earthquake.

Remedy:

- (1) After the earthquake is over, reset the sensor and start the machining with the beginning.
- (2) The sensor is suspected faulty when it is activated frequently. Call us for repair after checking the input signal.

A0007

No.	Name	Level	Reset
0007	FIRE EXTINGUISHER ON	Alarm 3	See Remedy

Description: The FIRE EXTINGUISHER was on (EIO group No.24 bit7 *FIRE=0).

Causes:

- (1) The fire equipment is activated.
- (2) Test switch of the fire equipment has been pressed.

Remedy:

- (1) If the fire equipment has functioned, change the dielectric.
- (2) After the test has been conducted with the fire extinguisher locked, release it by resetting.

A0008

No.	Name	Level	Reset
0008	OVERTRAVEL(OT2)	Alarm 3	RESET

(CE machine)

Description: The OVERTRAVEL2 switch was on (EIO group No.3E bit3 *OT2-LS=0).

Causes: $\pm X$, $\pm Y$, or $\pm Z$ axis was overrun and the over travel limit switch was actuated.

Remedy:

- (1) Press [OT RELEASE] key together with [RESET] key on the main operation panel.
- (2) Keep pressing [OT RELEASE] key and release [RESET] key. If [OT RELEASE] key is released accidentally, repeat from (1) again.
- (3) Keeping the [OT RELEASE] key pressed, move away the axis from the over travel limit switch by the portable operation panel.

Note: Take care at this time not to move the axis in the opposite direction (dangerous side).

After executing (1) to (3) above, press the [RESET] key and make reference point return.

A0011 A0013

No.	Name	Level	Reset
0011	MC POWER, -15V DC DROP	Alarm 3	See Remedy
0012	MC POWER, +15V DC DROP	Alarm 3	See Remedy
0013	MC POWER, +24V DC DROP	Alarm 3	See Remedy

Description:

DC -15V power voltage of the machining power dropped abnormally (-8V or more).

DC +15V power voltage of the machining power dropped abnormally (11V or less).

DC +24V power voltage of the machining power dropped abnormally (19V or less).

Causes:

- (1) DC -15V overloaded. Defective card.
- (2) DC +15V, DC +24V overloaded. Defective card.
Shorted terminal or wiring on the machining side.
- (3) Faulty generator DC -15V
PS2 (Defective switching generator)
- (4) Faulty generator DC +15V
PS1 (Defective switching generator)
- (5) Faulty generator DC +24V Defective 24VR rectifier (SB1)

Remedy: Alarm related to generator (faulty power unit). Contact to us.

A0014

No.	Name	Level	Reset
0014	+24V DC DROP (EIF2 CARD)	Alarm 3	ALARM

Description: The voltage of the +24 VDC power supply for the second EIF card has dropped more than usually.
(EIO group No.C7 bit1 *+24V ALARM (EIF2) = 0)

Causes: The +24V DC power supply for the second EIF card has failed.

Remedy: If the resetting failed, please contact us.

A0015

No.	Name	Level	Reset
0015	CHECK SUM ERROR (VMC-ROM)	Alarm 3	See Remedy

Causes:

- (1) The content of system has changed.
"Defective card" or "Abnormalities RAM content of the card".
- (2) This alarm is caused when turning power on after changing software or when making RAM clear.
This operation always causes this alarm, however it is normal condition.

Remedy:

- (1) Report to us of the data of parameter No.864.
 - (2) Refer to the "VERSION UPDATE PROCEDURE".
- Note: All the program data is initialized and erased by the RAM clear.
Therefore, do not use RAM clear unless requested by us.

A0017

No.	Name	Level	Reset
0017	CHECK SUM ERROR (EIS-ROM)	Alarm 1	RESET

Causes: The EIS card or the contents of software changed.

- (1) RAM was cleared.
- (2) FROM was replaced for EIS software updating.
- (3) Defective card.

Remedy:

- (1), (2) are normal, and therefore perform the checksum updating operation.
If this error occurs frequently at the power on, cause (3) is the most probability.
Replace the card.

A0018

No.	Name	Level	Reset
0018	PRM-No.0937,0938 DATA IS NO-GOOD	Alarm 1	RESET

Causes: No input or input error of machine type parameter (system parameter No.937 or 938).

Remedy: Please refer to the "VERSION UPDATE PROCEDURE".

A0019

No.	Name	Level	Reset
0019	PARAMETER INITIALS	Warning 2	WARN RESET

Description: Occurs when clearing RAM (turning power on while pressing [STOP] and [RESET] keys simultaneously).

A0020

No.	Name	Level	Reset
0020	BATTERY V DROP	Warning 2	See Remedy

Description: Voltage of the battery for the NC unit program backup dropped abnormally.

Causes:

- (1) Limit of battery life.
- (2) Erroneous connection disconnects contact (especially unconnected VPS unit CP 105 battery cable).
- (3) When exchanging the boards, check VMC card DIC1 switch setting.

Remedy: Alarm related to generator (faulty generator unit).

Contact to us.

Note) Replacement of battery unit should be done within an hour after turning power off. If the generator is turned off continuously for more than one hour, RAM data may be lost.

A0023

No.	Name	Level	Reset
0023	PLEASE SET MAIN OR SUB (NO. 930)	Alarm 2	RESET

Causes: The main or sub parameter bit (No. 930 Bit D,E) has not been set after the machine bit for EDNC2015 was set.

Remedy: Please set the main or sub parameter bit (No. 930 bit D, E).

A0025

No.	Name	Level	Reset
0025	AUTO POWER OUT BY ALARM OR WARNING	Warning 2	WARN RESET

Causes: When automatic supply cut-off is performed by setting to the set data No.0034 "FUNCTION BY AUTO RUN FINISH", this warning is display at the time of the next powering up.

Remedy: Check alarm or warning, and remove cause of power off, then press the [RESET] or [WARN RESET] key.

A0026

No.	Name	Level	Reset
0026	UNMATCHED ASC UNIT	Alarm 3	See Remedy

Description: At the time of power on, respective version numbers of EIS firmware and ASC firmware are checked, and they are found unmatched in combination.

Remedy: Contact us of the trouble procedure. Change firmware.

A0027

No.	Name	Level	Reset
0027	POWER FAILURE PROCESSING ERROR	Alarm 3	See Remedy

Description: The RAM protect was not executed when the power is turned off (manual operation or power failure).

Remedy: Data in the RAM could be destroyed. So, contact us about the trouble procedure.

A0028

No.	Name	Level	Reset
0028	OCCUR TO THE POWER FAIL SIGNAL	Alarm 3	See Remedy

Description: The power fail signal has occurred..

Causes:

- (1) A temporary power failure occurred.
- (2) Erroneous connection, Faulty contact.
- (3) Faulty power unit (VPSA/VPSB)

Remedy:

- (1) Turn on the power again.
- (2) In case of frequent failure, contact us of the trouble condition.

A0030

No.	Name	Level	Reset
0030	PORTABLE PANEL MODE SELECT ERROR	Warning 3	WARN RESET

Description: No mode signal or two or more modes are input simultaneously.

Causes:

- (1) The portable operating panel is faulty.
- (2) Poor connection of connector/cable.

Remedy:

- (1) After setting the feed rate selector (STEP, LOW, MIDDLE, HIGH, and RAPID) to the leftmost through rightmost position several times, turn the power on again.
- (2) If the above remedy cannot eliminate the problem, contact and tell us about the problem conditions.

A1000

No.	Name	Level	Reset
1000	NO INNER INTERSECTION AT DIA. COMP	Alarm 2	RESET

Description: An intersection was not determined at blocks before and after inner radius compensation.

Causes:

- (1) Program error.
- (2) Small set value for the set data No.0083 "BLOCK CONTACT LIMIT".

Remedy:

- (1) Correct the program.
- (2) Change the radius compensation value.
- (3) This alarm easily occurs at very limit of contact. In this case, increase the set data No.83 setting. After completion of that machining, return the setting to standard value.

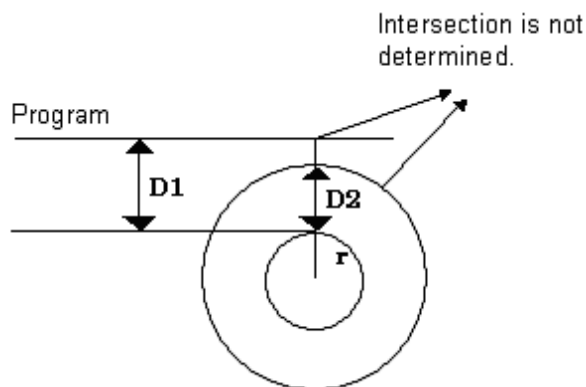
A1001

No.	Name	Level	Reset
1001	NO INTERSECT DUE TO ILLEGAL VALUE AT DIA. COMP	Alarm 2	RESET

Causes: When wrong radius compensation is set, the intersection may not be determined diagrammatically.

Remedy:

- (1) Change the radius compensation value.
- (2) Correct the program.

**A1002**

No.	Name	Level	Reset
1002	M02,M30 SPECIFIED AT DIA. COMP	Alarm 2	RESET

Causes: M02 or M30 was commanded during the radius compensation mode.

Remedy: Command G40 before commanding M02 or M30.

A1003

No.	Name	Level	Reset
1003	NO CENTER DEFLECTION, RADIUS IN G02, G03 COMMAND	Alarm 2	RESET

Causes: A radius was not commanded in the block with movement in the case of arc modal.

Remedy:

- (1) Correct the program.
- (2) When the modal is arc and the movement amount is to be commanded, be sure to command a radius.
Alternatively, set the G00 or G01 modal. There are two kinds of radius specifications; I, J, K and R.

A1004

No.	Name	Level	Reset
1004	PLANE IN CONSISTENT IN G02,G03 COMMAND	Alarm 2	RESET

Causes: Inconsistent combination of I, J, and K commanded by the arc radius designation for flat surface designation selected in G17 - G19.

Example) K (Z-axis direction) is used for arc radius designation of X-Y plane (G17).

Remedy: Correct the program.

A1005

No.	Name	Level	Reset
1005	G48,G68,G26 EXCESS APPOINT	Alarm 2	RESET

Causes: G48 was specified in G48, G68 specified in G68 or G26 specified in G26.

Remedy: Correct the program.

A1006

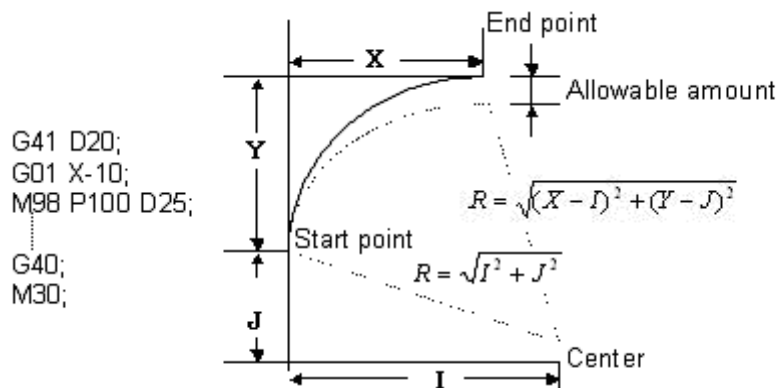
No.	Name	Level	Reset
1006	EXCESS ARC END ERROR IN G02,G03 COMMAND	Alarm 2	RESET

Causes:

- (1) Radius at start and end are inconsistent.
- (2) When specifying R, R = 0 was specified.
- (3) There are R specification and I, J specification in the same block.
- (4) There is no G00 or G01 in the line block after G02 and G03 modals.
- (5) A sub-program with a different offset amount has been called after movement block in radius compensation (G41, G42), or optional pattern has been commanded.

Remedy: Correct the program or increase the set data No.80 setting.

Note) Set higher especially in the case of automatic programming output.



Calculation method

(If the condition of the following equation is not met, an error is caused.)

$$\text{Set Data Setting No. 0080} + 5\mu m > \sqrt{(X-I)^2 + (Y-J)^2} - \sqrt{I^2 + J^2}$$

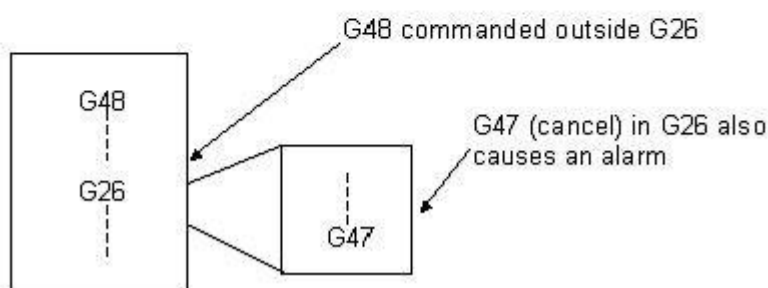
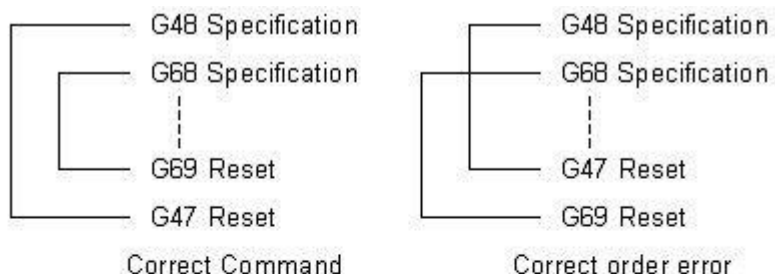
Radius determine from Radius determined from
end coordinate value center coordinate value

A1007

No.	Name	Level	Reset
1007	G47,G69 COMMAND ORDER ERROR	Alarm 2	RESET

Causes: The cancel specification G47 and G69 to G48 and G68 were commanded in incorrect order.

Remedy: Correct the program.

**A1008**

No.	Name	Level	Reset
1008	MIRROR IMAGE (G71) COMMAND ERROR	Alarm 2	RESET

Causes: Values other than 0(off) and 1(on) were commanded to X and Y in G71 X_ Y_ ; block.

Remedy: Correct the program.

A1009

No.	Name	Level	Reset
1009	G92 SPECIFIED AFTER G48,G68	Alarm 2	RESET

Causes: G92 A_ ; was specified in G48 or G68.

However, without A specification, this does not cause an alarm.

Remedy: Correct the program or execute after specifying G92A0; .

A1010

No.	Name	Level	Reset
1010	ILLEGAL G COMMAND IN SAME BLOCK	Alarm 2	RESET

Causes: There are prohibited G code combinations in the same blocks.

Remedy: Correct the program.

		G Code												
G Code		04	22	28	29	30	40	41	42	48	68	70	71	92
	04		0	0	0	0				0	0			0
	22									0	0			
	28		0							0	0			0
	29		0							0	0			0
	30		0	0	0					0	0			0
	40			0	0	0								
	41			0	0	0								
	42			0	0	0								
	48										0			
	68													
	70													0
	71													0
	92		0								0			
		Dwell	Work limit	Automatic Ref Ret Pt	Return from Ref Pt	Undefined	Radius Compensation Cancel	Radius Compensation to the left	Radius Compensation to the right	Scaling	Rotation	Mirror Off	Mirror On	Coordinate System Setting

Note: Circle indicates illegal combination. Symmetrical one is inhibited.

A1011

No.	Name	Level	Reset
1011	OPTIONAL G CODE SPECIFIED	Warning 1	WARN RESET

Description: Prohibited G code was specified in the same block.

Causes: Optional specification of G code (system parameter No.920 to 926 setting) is invalid.

Remedy: Correct the program. Confirm the system parameter.

A1012

No.	Name	Level	Reset
1012	G41, G42 IN G02,G03 BLOCK	Alarm 2	RESET

Causes: The modal of radius compensation start block was an arc.

Remedy: Correct the program.

Specify a linear command (G01, G00) in the radius compensation start block.

A1013

No.	Name	Level	Reset
1013	G40 COMMAND ERROR	Alarm 2	RESET

Causes:

- (1) The modal of radius compensation cancel block was an arc.
- (2) Movement command outside of compensation plane is in the radius compensation cancel block.

Remedy: Correct the program.

- (1) Specify a linear command (G01, G00) in the radius compensation cancel block.
- (2) Don't specify movement outside of compensation plane in the radius compensation cancel block.

A1014

No.	Name	Level	Reset
1014	CANCEL ROTATION (G69)	Warning 3	WARN RESET

Causes: The model plan was programmed with the rotation (G68) made valid.

Remedy: Correct the program.

Cancel the rotation (G69), and then program the model plan.

A1015

No.	Name	Level	Reset
1015	CANCEL MIRROR IMAGE(G70)	Alarm 2	RESET

Causes: The model plan was programmed with the mirror image (G71) made valid.

Remedy: Correct the program.

Cancel the mirror image (G70), and then program the model plan.

A1016

No.	Name	Level	Reset
1016	OVERSHOOT BY RADIUS COMP.	Warning 3	WARN RESET

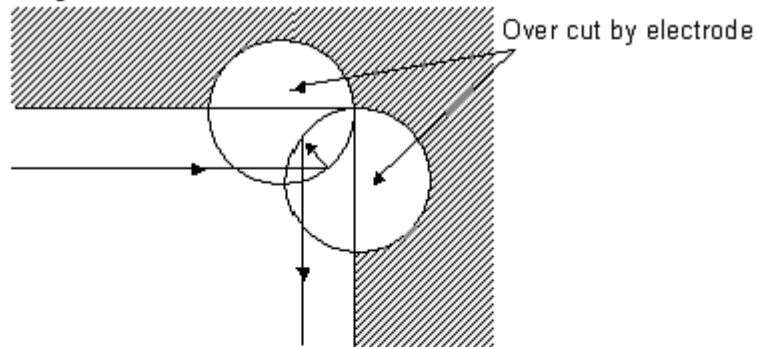
Causes: An interference occurred as a result of radius compensation.

Remedy: Change an offset amount or correct the program.

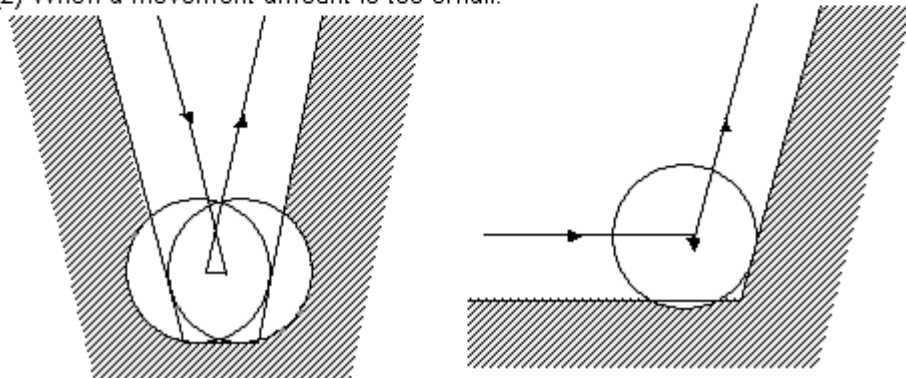
When interference can be tolerated, continue as it is.

Pressing the [WARN RESET] key causes the message to disappear.

(1) When machining the inside of an arc smaller than the offset amount:



(2) When a movement amount is too small:



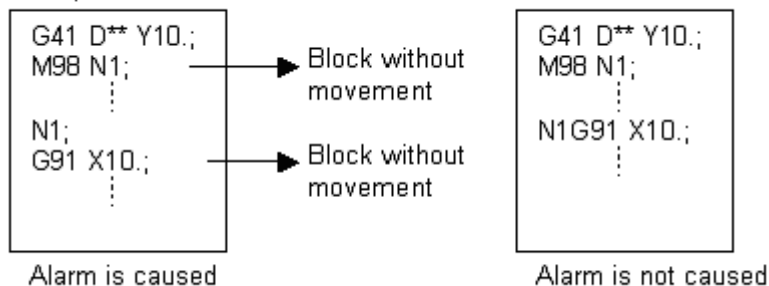
A1017

No.	Name	Level	Reset
1017	RADIUS COMP INTERSECT. NOT IN COMMAND RANGE	Warning 3	WARN RESET

Causes: During radius compensation, there were two or more blocks without movement so that intersection could not be determined, causing re-rotation.

Remedy: Correct the program.

Example:

**A1018**

No.	Name	Level	Reset
1018	INVALID D COMMAND OF ENTRY PROGRAM (OPT PAT)	Warning 3	WARN RESET

Causes: There is a D specification in the electrode profile registration program for the optional pattern.

Remedy: Correct the program.

However, the D specification in the electrode profile registration program for the optional pattern is ignored.

Example:

```
G41 X-10.;
G01 Y-20. D20;
G01 X-20.;
.....
G40 X10.;
M99;
```

A1022

No.	Name	Level	Reset
1022	G43,G44,G49 COMMAND ERROR	Alarm 2	RESET

Causes: G28, G29, G30, and G53 are in block error by being commanded to be in the same block as G43, G44 and G49.

Remedy: Correct the program.

A1023

No.	Name	Level	Reset
1023	G22 COMMAND ERROR	Alarm 2	RESET

Causes:

- (1) G22 command is not in pair.
X-----I, Y-----J, Z-----K
- (2) G22 command can specify only axes X, Y and Z.
- (3) G22 command can specify only after the reference point

Remedy:

- (1), (2) Correct the program.
- (3) Make reference point return.

A1024

No.	Name	Level	Reset
1024	MOVEMENT END CORD. WITHIN FORBID AREA	Alarm 2	RESET

Causes: When a prohibited area was set with G22 command, the end of movement entered the prohibited area.

Remedy: Correct the program.

A1028

No.	Name	Level	Reset
1028	NO P, X WORD IN G04 COMMAND	Alarm 2	RESET

Causes: P_ or X_ command for specifying a dwell length is not in the G04 dwell command.

Remedy: Correct the program.

A1029

No.	Name	Level	Reset
1029	G30 IS POSSIBLE ONLY AFTER ZERO RETURN	Alarm 2	RESET

Causes:

- (1) The number of reference point (P command) specified together with the G30 command is not 2, 3 or 4.
Note) When P is omitted, it becomes the 2nd reference point.
- (2) When G30 was specified, the reference point return has not been completed.

Remedy:

- (1) Correct the program.
- (2) Make reference point return.

A1030

No.	Name	Level	Reset
1030	G53 IS POSSIBLE ONLY AFTER ZERO RETURN	Alarm 2	RESET

Causes: When G53 was specified, the reference point return had not been completed.

Remedy: Make reference point return.

A1031

No.	Name	Level	Reset
1031	G28 COMMAND ERROR	Alarm 2	RESET

Causes:

- (1) The L command in the same block as the G28 command is other than 0, 1 (it becomes L0 when omitted).
- (2) When the reference point return is not made yet, the reference point return searching for DEC is made.
But the condition for this return is not established.
The set data No.66 "INITIALIZE AT POWER ON" setting is not "0".
- (3) No data is set to the parameter No.*068 "ZRN DOG POSITION"

Remedy:

- (1) Correct the program.
- (2) Set to "0" the set data No.66 "INITIALIZE AT POWER ON" or previously make reference point return manually.
- (3) Enter 99999999 for the parameter No.*068 "ZRN DOG POSITION", and retry.

A1032

No.	Name	Level	Reset
1032	G28,G29 COMMAND ORDER ERROR	Alarm 2	RESET

Causes:

- (1) The G28 command was not specified before the G29 command.
- (2) An axis not specified with the G28 command was specified with the G29 command.

Remedy: Correct the program.

A1033

No.	Name	Level	Reset
1033	ELECTRODE OFFSET DATA ERROR	Alarm 2	RESET

Causes: A value other than the defined D value of the G10 command was specified.

Remedy: Correct the program.

A1034

No.	Name	Level	Reset
1034	MORE THAN 17 CHANGES OF ELECTRODE OFFSET	Alarm 2	RESET

Causes: The G10 D_; command was specified more than 17 times in a program during the electrode offset.

Note) Up to 16 times available.

Remedy: Correct the program.

A1036

No.	Name	Level	Reset
1036	MEMORY PROTECT PARAM. ILLEGAL BY G10	Alarm 2	RESET

Causes:

A value other than the defined L value of the G10 command was specified or other address code is out of range. L value that user can command was as follows.

D/H: Change of offset amount.

L2: Change of work offset amount.

L3: Change of F1 data.

L5: Electrode offset value was changed.

L6: Electrode reference offset value was changed.

L10~13: Change of machining condition.

L20~23: Change of machining condition input (main, sub, auxiliary, servo element).

L50: Change of model.

L51: Model padding data was changed.

L60: Change of machine sequence interface.

L999: Change of parameter.

Remedy: Correct the program.

A1037 A1038

No.	Name	Level	Reset
1037	ILLEGAL WORD IN G10 BLOCK	Alarm 2	RESET
1038	WORD DATA ERROR IN G10 BLOCK	Alarm 2	RESET

Causes: G10 command block is in error.

Remedy: Correct the program.

A1039

No.	Name	Level	Reset
1039	MOVEMENT COMMAND AGAINST OPTION AXIS	Alarm 2	RESET

Causes:

(1) A movement command was specified to the axis other than available axes.

(2) With the C axis and B axis disabled, a program containing C or B axis movement was executed.

The B axis moving command was specified though the B axis servo is not turned on. (Work reverse unit).

Remedy:

(1) Correct the program.

(2) Perform operation based on the cause.

(3) Use the M code for B axis servo on to move the B axis.

A1040

No.	Name	Level	Reset
1040	G31LI EFFECTIVE DURING MC	Alarm 2	RESET

Causes: G31L1 is commanded during M27 (machining off).

Remedy: G31L1 is effective only during M26 (machining on), however, as it is usually applicable only to the system software, this trouble will not happens.

A1041

No.	Name	Level	Reset
1041	OVERLAP COMMAND FOR POWER SUPPLY	Alarm 2	RESET

Causes: System error.

Remedy: In case of frequent occurrence, contact us of the trouble procedure.

A1042

No.	Name	Level	Reset
1042	OVERLAP COMMAND FOR MACHINE CONTROL	Alarm 2	RESET
		Warning 1	WARN RESET

(Option)

Causes:

- (1) System error.
- (2) The μ SC collection is turned on during machining mode change or standard mode.

Remedy:

- (1) In case of frequent occurrence, contact us of the trouble procedure.
- (2) Perform operation based on the cause.

A1043

No.	Name	Level	Reset
1043	NO M02,M30 IN MAIN PROGRAM	Alarm 2	RESET

Causes: The program end M code (M02 or M30) command was not in the main program.

Remedy: Correct the program.

Specify the M02 or M30 command at the end of the main program.

A1044

No.	Name	Level	Reset
1044	COMMAND OVER	Alarm 2	RESET

Causes: System error.

Remedy: In case of frequent occurrence, contact us of the trouble procedure.

A1045

No.	Name	Level	Reset
1045	UNDEFINED G, M COMMAND	Alarm 2	RESET

Causes: An unused G or M code was specified.

Remedy: Correct the program. Check G and M codes.

A1046

No.	Name	Level	Reset
1046	DECIMAL POINT ERROR	Alarm 2	RESET

Causes:

- (1) In case of standard precision with metric command unit, command can be made only down to the 3rd decimal place. For inch command unit, command can be made only down to the 4th decimal place.
In case of high precision with metric command unit, command can be made only down to the 4th decimal place. For inch command unit, command can be made only down to the 5th decimal place.
- (2) With the decimal point is unavailable with an F command.

Remedy: Correct the program.

A1047

No.	Name	Level	Reset
1047	NUMERICAL VALUE COMMAND ERROR	Alarm 2	RESET
		Warning 1	WARN RESET

Causes:

- (1) The command value is out of the following range.
 - ± 99999.999 for the metric command unit.
 - ± 9999.9999 for the inch command unit.
 - Range of machine parameter setting No.0561 "F4 UPPER LIMIT" for F command.
- (2) A value out of range is specified for the M60 command. (Pallet change)
- (3) A value out of range is specified for the M600, M620, and M650 command. (Pallet magazine unit)

Remedy:

- (1), (2) Correct the program.
- (3) Reset the NC unit and turn on the [POWER] and [REFERENCE POINT RETURN] keys on the Pallet Magazine Unit.

A1048

No.	Name	Level	Reset
1048	MAKE ZERO RETURN (ALL AXIS)	Alarm 2	RESET
		Warning 1	WARN RESET

Causes:

- (1) With the zero return operation not completed, the axis movement or rotation was executed manually or automatically.
- (2) With the zero return operation not completed, M56 was executed.

Remedy: Make all reference point return. (All axis)

A1049

No.	Name	Level	Reset
1049	MC COMMAND INTERRUPT FORBIDDEN AT MC	Warning 3	WARN RESET

Causes: Halfway in the execution of machining block in memory run, MDI interrupt (switching to MDI run) was made and machining block was specified in MDI.

Remedy: Don't make machining interrupt while machining.

Switch from MDI run to MEMORY run and the [START] key to continue or press the [RESET] key to restart.

Note) In case modal change was made by command in MDI, such portion may be valid.

Check again, therefore, when continuing in memory operation.

A1050

No.	Name	Level	Reset
1050	ILLEGAL SELECT OF AUTO MODE	Warning 1	WARN RESET

Causes:

- (1) The pallet change (M600/610/620) is executed while the PM magazine manual interrupt button or index button is being held down.
- (2) Any of [STAND-BY-->MGZ1] (BF1-1) to [ARM DOWN] (BF1-6) is depressed on the OPT FUNC P/M screen while the PM magazine index button is being held down.

Remedy: Take corrective action relative to the cause.

A1051

No.	Name	Level	Reset
1051	USE COND. NOT MET FOR ADDITIONAL AXIS	Warning 2	WARN RESET
		Warning 3	WARN RESET

(Option)

Causes:

- (1) On the machine with the C axis (option), the C axis command is specified in the auto mode with the [FLUID] key turned off. The C axis is cooled with the dielectric fluid.
- (2) The B axis has not returned to the zero point. (Work reverse unit)
- (3) Manual index operation was performed in the TOUCH mode. (Work reverse unit)

Remedy:

- (1) After the [FLUID] key is turned on, specify the C axis command in the auto mode.
- (2) Return the B axis to the zero point. Or, press the index button again. (Work reverse unit)
- (3) Select other than TOUCH mode on the Portable operation panel. (Work reverse unit)

A1052

No.	Name	Level	Reset
1052	AT INDEX FIXED LS ON	Warning 3	WARN RESET

(Option)

Causes:

- (1) C axis has been selected for MA head, however, the machine keeps indexing mode.
- (2) The index button was turned on though the B axis is the index axis and clamped in the zero return mode.
(Work reverse unit)

Remedy:

- (1) Remove the bellows and confirm the machine system functions through a limit hole. When the machine system functions normally, the limit sensor or the connector is suspected faulty.
When the machine does not function, check the solenoid valve. If the air blows in the machine system, MA head is faulty.
- (2) Cancel the zero return mode and retry indexing. (Work reverse unit)

A1053

No.	Name	Level	Reset
1053	INCORRECT MA/MR HEAD MODE SELECT	Warning 3	WARN RESET

Causes: When MA/MR head mode and modal M differs each other, MA/MR head is commanded.

Remedy: On the Setup-Option screen, switch the MA/MR HEAD mode to adjust to modal M, or in the MDI mode, change modal M to adjust to MA/MR HEAD mode, so as to set the same mode.

M56: indexing operation

M57: C axis

M03: in turning

M05: in turning stop

A1054

No.	Name	Level	Reset
1054	HOLDER UNCLAMP INVALID(MA HEAD IS MOVED)	Warning 3	WARN RESET

Causes: The holder is unclamped by hand while the C axis is started to rotate or rotating.

Remedy: Unclamp the holder after the C axis rotation is stopped.

A1055

No.	Name	Level	Reset
1055	CLAMP HOLDER(MA HEAD IS MOVED)	Warning 3	WARN RESET

Causes: The spindle MA head is started to rotate with the holder unclamp.

Remedy: After the holder is clamped, start the MA head.

A1056

No.	Name	Level	Reset
1056	G68 COMMAND ERROR	Alarm 2	RESET

Causes: An axis other than X and Y axes was specified for the rotation center position of G68 X_ Y_ R_;

Remedy: Correct the program.

A1057

No.	Name	Level	Reset
1057	G26 COMMAND ERROR	Alarm 2	RESET

Causes: An axis other than X and Y axes was specified for the rotation center position of G26 X_ Y_ A_; or a copy angle A_; was not input.

Remedy: Correct the program.

A1060

No.	Name	Level	Reset
1060	RETRACT INVALID IN G98 COMMAND	Warning 1	WARN RESET

Description: A retract operation is commanded under the condition where return to the start point is impossible.

Causes: The block where the retract operation is commanded is not the machining block.

After the retract command, the retract operation is commanded again.

Remedy: Correct the program.

A1061

No.	Name	Level	Reset
1061	RETURN INVALID IN G99 COMMAND	Warning 1	WARN RESET

Description: Returning is commanded during the machining where return to the operation stop point is impossible.

Causes: G98 or retract operation is not executed.

Remedy: Correct the program.

A1063

No.	Name	Level	Reset
1063	CAN'T RETRACT IN JUMP CYCLE	Warning 3	WARN RESET

Causes: The retract key is pressed during the jump (servo lamp off) in the contour machining in valid continuous servo (G959).

Remedy: After restart, make retract operation again with the jump off.

A1064

No.	Name	Level	Reset
1064	RETRACTING NOW, PLEASE PRESS THE RETURN KEY ON FPB	Warning 3	SEE BELOW

Cause: After the manual retracting operation during the axis feed or machining feed, the START button was turned on without performing the return operation.

Remedy: Press the Return key to perform the return operation, and then turn on the START button.

A1066

No.	Name	Level	Reset
1066	MDI DURING G41,G42	Warning 3	WARN RESET

Causes: It stopped while executing the diameter correction by the memory run and it switched to MDI run, the movement instruction was done, and it executed it.

Remedy: Change manual mode, move by manual operate.

A1067

No.	Name	Level	Reset
1067	G92 COMMAND ERROR	Alarm 2	RESET

Causes: A value other than A0 to A9 was commanded in the block of G92 A_; A_ is to be used indirect command.

The contents are values registered in the set data No.0090 to 0099.

Remedy: Correct the program.

A1068

No.	Name	Level	Reset
1068	AXIS-COMMAND IS OVER IN 1 BLOCK	Alarm 2	RESET

Causes: More than five axes were commanded simultaneously.

Ex) G01 X10. Y10. Z10. C10. B10.;

Remedy: Correct the program.

G01 X10. Y10. Z10. C10.; G01 B10.;

Or

G01 X10. C10. B10.; G01 Y10. Z10.;

etc.

A1070

No.	Name	Level	Reset
1070	ILLEGAL SELECT OF INTERPOLATION UNIT	Alarm 2	RESET

Causes:

(1) During positioning in the MEMORY RUN operation, a machining program was executed by interrupting the operation in the MDI mode.

(2) System error.

Remedy:

(1) Press the [RESET] key, then execute the desired program.

(2) In case of frequent occurrence, contact us of the trouble procedure.

A1074

No.	Name	Level	Reset
1074	G31 COMMAND ERROR	Alarm 2	RESET

Causes: Commanded by the mistaken form of G31.

Remedy: Correct the program.

A1075

No.	Name	Level	Reset
1075	DUPLICATE INSTRUCTIONS OF G31	Alarm 2	RESET

Causes: Midway in taking measurement in memory run, MDI interrupt was made to perform measurement.

Remedy: Press the [RESET] key, and then execute the desired program.

A1076

No.	Name	Level	Reset
1076	SAVING OR REGISTORATION ERROR OF INSIDE COORD.	Alarm 2	RESET

Causes: System error.

Remedy: In case of frequent occurrence, contact us of the trouble procedure.

A1080

No.	Name	Level	Reset
1080	CHANGE FORBADE RUN MODE	Warning 2	WARN RESET

Causes: As the mode has been change during MA head is indexing, the MA head indexing operation is not finished.

Remedy: Go back to the former mode to finish indexing operation, and then change the mode.

A1083

No.	Name	Level	Reset
1083	MANUAL ZERO RETURN WHILE AUTO RUN INVALID	Warning 2	WARN RESET

Causes: When operating in a mode (MDI, memory) other than the manual mode or in setting tape, manual operation interrupt was attempted to manually return to the reference point.

Remedy: Manual return to the reference point is not possible during the automatic operation.

Cancel the reference point return mode before changing the operation mode, and then turn the power on again.

A1086

No.	Name	Level	Reset
1086	INPUT VALUE IS ROUNDED OFF	Warning 1	WARN RESET

Causes: In the standard precision mode (set data No. 0063), a value with decimal point that exceeds the standard precision was specified and therefore it is rounded off to standard precision.

Ex) Metric system 1.2345 -> 1.235

Inch system 1.23456 -> 1.2346

Remedy: There is a possibility of programming mistake. Please check and correct the program or ignore it.

A1087

No.	Name	Level	Reset
1087	ILLEGAL G04 VALUE	Alarm 2	RESET

Causes: The value that rise upper bound value (99999999) is instructed in to the G04 dwell instruction.

Remedy: Correct the program.

A1101

No.	Name	Level	Reset
1101	MACRO INSTRUCTION ERROR	Alarm 2	RESET

Causes: System error.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

A1102

No.	Name	Level	Reset
1102	MACRO COMMAND ORDER ERROR	Alarm 2	RESET
		Warning 2	WARN RESET

Causes: The macro command codes of which commanding order is limited were not specified in the correct order.

Ex) The PRED command was specified before the PROP command in the external data command.

Remedy: Correct the macro program.

A1116

No.	Name	Level	Reset
1116	O No. IS NOT WITHIN 1~9999	Alarm 2	RESET

Causes: O number in memory operation was 0 or more than 10000.

Remedy: Check the input command value. Specify the correct O No.

A1117

No.	Name	Level	Reset
1117	DOUBLE REGISTRATION OF THE O NO. CARRIED OUT	Alarm 2	RESET

Causes: System error.

Remedy: Contact to us about the trouble condition.

A1118

No.	Name	Level	Reset
1118	O No. (MAIN, SUB) IS NOT REGISTERED IN MEMORY	Alarm 2	RESET

Causes: O No. started in memory operation or called by the subprogram is not registered.

The subprogram O No. called from the subprogram is also checked.

Remedy: Find the unregistered O No. and register it. Correct the program.

A1119

No.	Name	Level	Reset
1119	EDITING OR ERROR OF MAIN PROGRAM	Alarm 2	RESET

Causes: O No. started in memory operation is in the following state.

- (1) Being displayed on the Program: Block screen or being registered or deleted on the Program: List screen or being RS232C input/output.
- (2) Block error or grammar error is caused in O No.

Remedy:

- (1) Close the program being displayed on the Program: Block screen.
Start under the condition other than registering, deleting on the Program: List screen or RS232C input/output.
- (2) Correct O No. error.

A1120

No.	Name	Level	Reset
1120	EDITING OR ERROR OF SUB PROGRAM	Alarm 2	RESET

Causes: O No. by subprogram call or subprogram called from subprogram is in the following state.

- (1) Being displayed on the Program: Block screen or being registered or deleted on the Program: List screen or being RS232C input/output.
- (2) Block error or grammar error is caused in O No.

Remedy:

- (1) Close the program being displayed on the Program: Block screen. Start under the condition other than registering, deleting on the Program: List screen or RS232C input/output.
- (2) Correct O No. error.

A1121

No.	Name	Level	Reset
1121	(NPC) COMPILE ERROR	Alarm 2	RESET

Causes: System error.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

A1132

No.	Name	Level	Reset
1132	N No. NOT FOUND	Alarm 2	RESET

Causes: In case of frequent occurrence, contact us about the trouble procedure. Block sequence No. is not found due to the following causes.

- (1) Error of N No. started in memory operation.
- (2) Specification error of subprogram call
M98 P_ N_ (O_ P_); or retract M99 N_ (P_);
- (3) Error of destination N No. of macro command GOTO statement.

Remedy: Correct the program.

A1133

No.	Name	Level	Reset
1133	HEAD OF A PROGRAM	Alarm 2	RESET

Causes: System error.

Remedy: In case of frequent occurrence, contact us of the trouble procedure.

A1134

No.	Name	Level	Reset
1134	THE PROGRAM TO PERFORM IS NOT GOOD	Alarm 2	RESET

Causes: The program to be executed has not been registered yet.

Remedy: Correct the program

A1135

No.	Name	Level	Reset
1135	INACCURATE OPERATION EXISTS	Alarm 2	RESET

Causes: The out-of-range value was specified in the calculation with macro commands.

Remedy: Correct the program

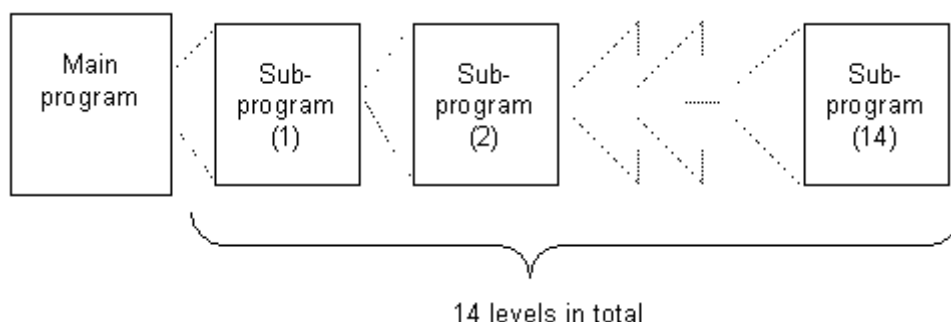
A1136

No.	Name	Level	Reset
1136	EXCESS NESTING OF SUB PROGRAM	Alarm 2	RESET

Causes: Nesting of subprogram call exceeded level 14.

G and M codes with limited nesting were used at above specified level.

Remedy: Correct the program.

**A1137**

No.	Name	Level	Reset
1137	M99 PRESENT IN MAIN PROGRAM	Alarm 2	RESET

Causes: O No. of subprogram was specified to start in memory operation.

Remedy: Correct the program.

A1138

No.	Name	Level	Reset
1138	NO M99 IN SUB PROGRAM	Alarm 2	RESET

Causes: The retract command (M99, M99 N_ (P_)) is not found in the subprogram.

Remedy: Correct the program.

A1141

No.	Name	Level	Reset
1141	(NPC) SYSTEM ERROR	Alarm 2	RESET

Causes: System error.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

A1142

No.	Name	Level	Reset
1142	MANY FILES	Alarm 2	RESET

Causes: System error.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

A1143 A1148

No.	Name	Level	Reset
1143	NC DATA OVERFLOW 1	Alarm 2	RESET
1144	NC DATA OVERFLOW 2	Alarm 2	RESET
1145	NC DATA OVERFLOW 3	Alarm 2	RESET
1148	NC DATA OVERFLOW 6	Alarm 2	RESET

Causes: System error.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

A1149

No.	Name	Level	Reset
1149	ILLEGAL WORD IN BLOCK	Alarm 2	RESET

Causes: Illegal NC command was in the program setting.

Remedy: Correct the program.

A1150

No.	Name	Level	Reset
1150	BLOCK FORMAT ERROR	Alarm 2	RESET

Causes: The following special macro command codes were used erroneously.

- (1) External data output macro (PROP, PRED, PRCL).
- (2) System call macro (SYSCALL).
- (3) Special M code was executed without specifying the parameter B code. (Work reverse unit)

Remedy:

- (1), (2) Correct the program.
- (3) Use the parameter B such as M180 B**;. (Work reverse unit)

A1151

No.	Name	Level	Reset
1151	RS232C INPUT DEVICE ERROR	Alarm 2	RESET

Causes: External I/O unit error was detected during RS232C output.

Remedy: Recheck external I/O unit condition (Set data No.20 to 26). Check the device and cable.

A1152

No.	Name	Level	Reset
1152	BLOCK MORE THAN 126 DIGITS PRESENT	Alarm 2	RESET

Causes: Block longer than 126 characters was detected during input the program.

Remedy: Correct the program.

A1160 A1167

No.	Name	Level	Reset
1160	NPC COMMAND No. ERROR	Alarm 2	RESET
1161	NPC COMMAND No. INCORRECT	Alarm 2	RESET
1162	AT PROTECT	Alarm 2	RESET
1163	O No. EXISTENT	Alarm 2	RESET
1164	COMPILE ERROR	Alarm 2	RESET
1165	PROGRAM HEAD	Alarm 2	RESET
1166	PROGRAM END	Alarm 2	RESET
1167	MEMORY SHORTAGE	Alarm 2	RESET

Causes: System error.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

A1180

No.	Name	Level	Reset
1180	VARIABLE No. ERROR	Alarm 2	RESET

Causes: Prohibited macro variable number was used.

Remedy: Correct the program.

A1181

No.	Name	Level	Reset
1181	VARIABLE VALUE ERROR	Alarm 2	RESET

Causes: In macro instruction, the used variable value is out-of-range.

Remedy: Correct the program.

A1182

No.	Name	Level	Reset
1182	PROHIBITED MACRO VAL. IN THIS TYPE MACHINE	Alarm 2	RESET

Causes: A macro variable not allowed was used.

Remedy: Correct the program.

A1184

No.	Name	Level	Reset
1184	CALCULATION ERROR	Alarm 2	RESET
		Warning 2	WARN RESET

Causes: In calculation equation of macro instruction, the function argument value or system variable substitution value or NC code replacement value was outside of allowable range.

Remedy: Correct the program.

A1185

No.	Name	Level	Reset
1185	DIVISOR IS 0	Alarm 2	RESET
		Warning 3	WARN RESET

Causes:

- (1) In macro instruction calculation equation, the divisor is 0.
- (2) The index position of the 6th axis for the parameter No.0632 "NO. OF WORKPIECE INDEX UNIT INDEX POS. "is set to 0. (Work reverse unit)

Remedy:

- (1) Correct the program.
- (2) Re-set the parameter and retry. (Work reverse unit)

A1186

No.	Name	Level	Reset
1186	CALCULATION ACCURACY ERROR(1)	Alarm 2	RESET

Causes: In macro instruction calculation equation, an extremely large absolute value occurred.

Remedy: Correct the program.

A1187

No.	Name	Level	Reset
1187	CALCULATION ACCURACY ERROR(2)	Alarm 2	RESET
		Warning 2	WARN RESET

Causes: In macro instruction calculation equation, an extremely small absolute value occurred.

Remedy: Correct the program.

A1188

No.	Name	Level	Reset
1188	ERROR OUT OF RANGE OF THE ADDRESS IS INSTRUCTED	Alarm 2	RESET

Causes: A numeric value specified for the address is out of the range.

Remedy: Correct the program.

A1196

No.	Name	Level	Reset
1196	NO O No. IN M98,G65,G66,G93 COMMAND	Alarm 2	RESET

Causes:

(1) No word to designate No. 0 in the command block.

Ex) M98 N12;

(2) In the case of work reverse unit, this alarm will occur if the following command is specified.

Ex) M180 G53 B30.; Underlined part is erroneous.

Remedy: Correct the program. Do not specify G code between M180 and B such as M180 B30.

A1197

No.	Name	Level	Reset
1197	EXCESS NESTING OF G66	Alarm 2	RESET

Causes: G66 modal call nesting exceeding level 3.

Remedy: Correct the program.

A1198

No.	Name	Level	Reset
1198	G93 SPECIFIED MORE THAN TWICE	Alarm 2	RESET

Causes: G93 commanded 2 times during execution of program between resets.

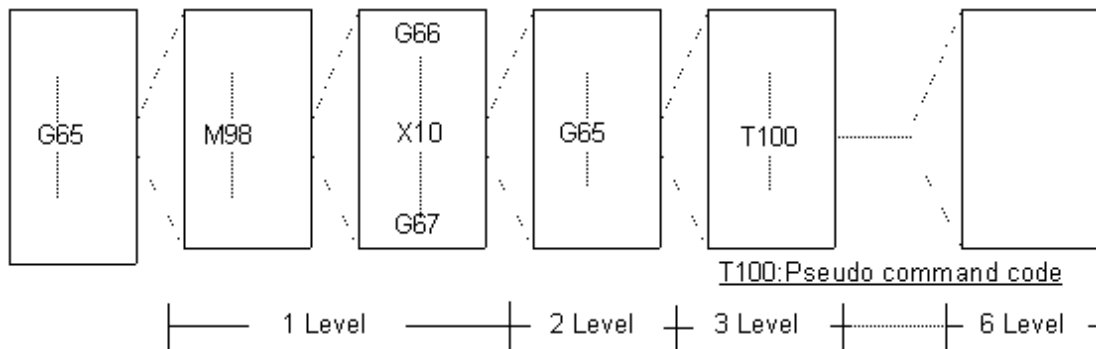
Remedy: Correct the program.

A1199

No.	Name	Level	Reset
1199	EXCESS NESTING OF MACRO CALL (G65)	Alarm 2	RESET

Causes: In macro level 6 states, modal call by G65, G66 or G, M code with nest level limit was commanded.

Remedy: Correct the program.

**A1200**

No.	Name	Level	Reset
1200	SUB. PRO FORMAT ERROR (L/R)	Alarm 2	RESET

Causes: The number of subprogram calling times exceeded 9999.

Remedy: Correct the program.

A1201

No.	Name	Level	Reset
1201	CAN NOT PROCESSED WORD IN BLOCK	Alarm 2	RESET

Causes:

Remedy: Correct the program.

A1220

No.	Name	Level	Reset
1220	FORMAT ERROR OF GRAPHIC MACRO CODE	Guide	WARN RESET

Causes:

- (1) Lack of address code in the G code for graphic.
 - (2) The PRFM command is specified without executing either of G400, G430 or G440.
- Ex) [No good] G400 Y_; [Good] G400 C_ X_ Y_;

Remedy: Correct the program.

A1221

No.	Name	Level	Reset
1221	ILLEGAL INPUT-DATA OF GRAPHIC MACRO CODE	Guide	WARN RESET

Causes: The address code in G code for graphic is out of the range.

Ex) [No good] G400 C10 X_ Y_; [Good] G400 C1~7 X_ Y_;

Remedy: Correct the program.

A1222

No.	Name	Level	Reset
1222	ILLEGAL G CODE IN GRAPHIC MACRO CODE	Guide	WARN RESET

Causes:

- (1) In the program with graphic macro code, the G code other than G400 - G439 is used.
- (2) In the user menu creating program by the model plan, G code other than G440 - G449 is used.

Remedy: Correct the program.

A1223

No.	Name	Level	Reset
1223	SO MANY G CODE IN GRAPHIC MACRO CODE	Guide	WARN RESET

Causes: Multiple graphic macro codes G400 - G439 are used in the same block.

Remedy: Correct the program.

The graphic macro code must be used in an individual block respectively.

A1224

No.	Name	Level	Reset
1224	GRAPHIC MACRO CODE OUT OF DRAWING AREA	Guide	WARN RESET

Causes: A graphic macro code exceeding allowable drawing range is specified in a program.

Remedy: Check and correct the program.

Allowable range: A square block having diagonal line determined by the following coordinates.

In text coordinates: MIN (0, 1) - MAX (65, 17)

In graphic coordinates: MIN (0, 18) - MAX (527, 323)

A1230

No.	Name	Level	Reset
1230	CHARACTERS ENTRY AREA OVERFLOW	Guide	WARN RESET

Causes: The number of characters of PRFM command following G440 - G449 is larger than internal memory area.

Remedy: Decrease the number of characters of PRFM command.

A1356

No.	Name	Level	Reset
1356	OVER THE AUTO DELETE PROGRAM NUMBER.	Warning 1	WARN RESET

Description: When using M101 modal to delete executed programs, the O Program include the subprograms to be deleted, has exceeded over 10.

Remedy: Correct the program.

A1360 A1363

No.	Name	Level	Reset
1360	INTERNAL MEMORY ERROR	Alarm 2	RESET
1361	INTERNAL I/F ERROR	Alarm 2	RESET
1362	INTERNAL FEED DATA ERROR	Alarm 2	RESET
1363	INTERNAL INFORMATION ERROR	Alarm 2	RESET

Causes: System error.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

A1370

No.	Name	Level	Reset
1370	PLANE SPECIFICATION ERROR	Alarm 2	RESET

Causes: The function for a plane other than the rotated plane was specified in the coordinate rotation.

Remedy: Correct the program.

A1371

No.	Name	Level	Reset
1371	G47 SPECIFICATION ERROR	Alarm 2	RESET

Causes: The scaling command was specified on other than modal plane

Remedy: Correct the program.

A1372

No.	Name	Level	Reset
1372	G14 COMMAND ERROR	Alarm 2	RESET

Causes: G14 command was specified with other than linear command.

Remedy: Correct the program.

A1373

No.	Name	Level	Reset
1373	CANNOT USE G92L1 COMMAND AND COORD. ROTATION AT SAME TIME	Alarm 2	RESET

Description: A G92L1 command cannot be specified during coordinate system rotation or at the same time as when a coordinate rotation command (G92P_) is specified.

Causes: An attempt was made to use both a coordinate system rotation command and a G92L1 command.

Remedy: Correct the program.

A1374

No.	Name	Level	Reset
1374	CANNOT CHANGE WORK COORD. ZERO POSITION (G92 COMMAND) DURING COORD. ROTATION	Alarm 2	RESET

Description: The zero point of the work coordinate system cannot be changed (G92 command) during coordinate system rotation or at the same time as when a coordinate system rotation command (G92P_) is specified.

Causes: An attempt was made to change the zero point of the work coordinate system (G92 command) during coordinate system rotation.

Remedy: Correct the program.

A1377

No.	Name	Level	Reset
1377	CANNOT EXECUTE MACHINING PROGRAM (MAINTENANCE MODE)	Alarm 1	RESET

Description: An attempt was made to execute a machining program during maintenance mode.

Causes: An attempt was made to execute a movement command in a program that was started during maintenance mode.

Remedy: Program corrections

A1380

No.	Name	Level	Reset
1380	G807 SPECIFICATION ERROR	Alarm 2	RESET

Causes: An invalid command is specified in G807.

Remedy: Correct the program.

A1399

No.	Name	Level	Reset
1399	SET THE AXIS NUMBER OF THE ROTATION AXIS CORRECTLY (No.730,No.731)	Alarm 2	RESET

Description: The tilt and rotary axis parameter has not been set when the work installation error correction function is executed.

Remedy: Check the parameter No.0730 [TILT AXIS NUMBER] and No.0731 [ROTARY AXIS NUMBER] setting.

A1400

No.	Name	Level	Reset
1400	UNNECESSARY WORD IN JUMP COMMAND	Warning 3	WARN RESET

Causes: An unnecessary word (alphabet) is contained in the G76 command block.

Remedy: Correct the program.

A1401

No.	Name	Level	Reset
1401	NECESSARY WORD MISSING IN JUMP COMMAND	Warning 3	WARN RESET

Causes: The necessary words in combination (alphabet) are missing in the G76 command block.

Be sure to input the words which are not omissible in the intermittent jump function.

Remedy: Correct the program.

A1402

No.	Name	Level	Reset
1402	ILLEGAL SET VALUE IN JUMP COMMAND	Warning 3	WARN RESET

Causes: The set value that is not permitted is commanded in the G76 command block.

Remedy: Correct the program.

A1410

No.	Name	Level	Reset
1410	ILLEGAL SET VALUE IN JUMP COMMAND	Warning 3	WARN RESET

Causes: The A argument in G76 command is smaller than B argument.

Remedy: Correct the program.

A1411

No.	Name	Level	Reset
1411	ILLEGAL JUMP AMOUNT(S)	Warning 3	WARN RESET

Causes: The set jump amount (S) in the G76 (jump) command is outside the range.

Remedy: Correct the program.

A1412

No.	Name	Level	Reset
1412	ILLEGAL JUMP CYCLE(T)	Warning 3	WARN RESET

Causes: The set jump cycle (T) in the G76 (jump) command is outside the range.

Remedy: Correct the program.

A1413

No.	Name	Level	Reset
1413	ILLEGAL JUMP SPEED(F)	Warning 3	WARN RESET

Causes: The set jump speed (F) in the G76 (jump) command is outside the range.

Remedy: Correct the program.

A1414

No.	Name	Level	Reset
1414	ILLEGAL JUMP FIRST CLAMP VALUE(I)	Warning 3	WARN RESET

Causes: The set jump first clamp value (I) in the G76 command is outside the range.

Remedy: Correct the program.

A1415

No.	Name	Level	Reset
1415	ILLEGAL SERVO JUMP STROKE(K)	Warning 3	WARN RESET

Causes: The set servo jump stroke (K) in the G76 (jump) command is outside the range.

Remedy: Correct the program.

A1416

No.	Name	Level	Reset
1416	ILLEGAL INTERMITTENT START JUMP FREQUENCY(Q)	Warning 3	WARN RESET

Causes: The set intermittent start jump frequency (Q) in the G76 (jump) command is outside the range.

Remedy: Correct the program.

A1417

No.	Name	Level	Reset
1417	ILLEGAL INTERMITTENT JUMP AMOUNT(U)	Warning 3	WARN RESET

Causes: The set intermittent jump amount (U) in the G76 (jump) command is outside the range.

Remedy: Correct the program.

A1418

No.	Name	Level	Reset
1418	ILLEGAL INTERMITTENT JUMP CYCLE(V)	Warning 3	WARN RESET

Causes: The set intermittent jump cycle (V) in the G76 (jump) command is outside the range.

Remedy: Correct the program.

A1419

No.	Name	Level	Reset
1419	ILLEGAL INTERMITTENT JUMP FREQUENCY (W)	Warning 3	WARN RESET

Causes: The set intermittent jump frequency (W) in the G76 (jump) command is outside the range.

Remedy: Correct the program.

A1420

No.	Name	Level	Reset
1420	ILLEGAL EFFECTIVE DEPTH(A)	Warning 3	WARN RESET

Causes: The set effective depth (A) in the G76 (jump) command is outside the range.

Remedy: Correct the program.

A1421

No.	Name	Level	Reset
1421	ILLEGAL JUMP RENEWAL STEP AMOUNT(B)	Warning 3	WARN RESET

Causes: The set jump renewal step amount (B) in the G76 (jump) command is outside the range.

Remedy: Correct the program.

A1422

No.	Name	Level	Reset
1422	ILLEGAL JUMP AMOUNT AT END MACHINING (C)	Warning 3	WARN RESET

Causes: The set jump amount (C) at the end of machining in the G76 (jump) command is outside the range.

Remedy: Correct the program.

A1423

No.	Name	Level	Reset
1423	ILLEGAL JUMP INTERVAL AT END MACHINING (D)	Warning 3	WARN RESET

Causes: The set Jump interval at end machining (D) in the G76 (jump) command is outside the range.

Remedy: Correct the program.

A1424

No.	Name	Level	Reset
1424	ILLEGAL AXIS OFFSET FROM START POINT (X, Y, Z)	Warning 3	WARN RESET

Causes: The set Jump axis offset from start point (X, Y, Z) in the G76 (jump) command is outside the range.

Remedy: Correct the program.

A1425

No.	Name	Level	Reset
1425	ILLEGAL MANUAL SWITCH VALID/INVALID(L)	Warning 3	WARN RESET

Causes: The set Jump manual switches valid/invalid (L) in the G76 (jump) command is outside the range.

Remedy: Correct the program.

A1426

No.	Name	Level	Reset
1426	NECESSARY WORD(U,Q) MISSING ININTERMITTENT JUMP COMMAND	Warning 3	WARN RESET

Causes: The Words (U, Q) necessary for intermittent jump in the G76 (jump) command is outside the range.

Remedy: Correct the program.

A1500

No.	Name	Level	Reset
1500	ILLEGAL MC COND. SPECIFIED	See Note	See Note

Description: The designated E No. exists, but either of machining condition elements of that E No. is out of the setting range.

Causes:

- (1) E No. with illegal registering condition was specified and the [ENTER] key was pressed on the Condition screen.
Ex) Setting E to 0.
- (2) E No. of which elements are cleared to 0 or even one of elements is illegally set was specified and the [SEARCH] button was pressed.

Remedy: Check specified value or review machining conditions.

Note

	Level	Release
For E No. called from the program	Alarm 2	Reset
For E No. called manually	Guide	Warn Reset

A1501

No.	Name	Level	Reset
1501	ILLEGAL CHANGE DATA OF MC COND.	See Note	See Note

Causes:

- (1) When changing the condition data on the COND MACHINING SET or EXECUTE CONDITION screen, a value out of the allowable range was input.
- (2) When changing the condition data on the LIST screen, a value out of the allowable range was input.
- (3) The IPL machining condition was changed to more than 30A current during the machining with the rib head (W axis).

Remedy: Check the input value.

Note

	Level	Release
If condition elements changed in a program	Alarm 2	Reset
If condition elements changed manually	Guide/Warning1	Warn Reset

A1502

No.	Name	Level	Reset
1502	OPTION MC COND. ELEMENT SPECIFIED	See Note	See Note

Causes: Machining conditions (E number) such as Power Up (60A spec.), Booster (special spec, over 120A), and the special spec. for ultra-hard finishing circuit (Option) are commanded.

Remedy: Check specified value or review machining conditions.

Note

	Level	Release
For E No. called from the program	Alarm 2	Reset
For E No. called manually	Guide	Warn Reset

A1503

No.	Name	Level	Reset
1503	MC COND. INTERLOCK ERROR	Warning 3	WARN RESET
		Alarm 3	RESET

Causes:

- (1) The overload of hardware (including printed wiring cards) due to a combination of condition elements is checked before machining conditions were output. An error was found in this pre-check.
- (2) The model machining started under the IPL machining condition exceeding 30A with the rib head (W axis).

Remedy:

- (1) Correct the machining conditions.
- (2) Set the IPL machining condition within 30A, and then restart the operation.

A1504

No.	Name	Level	Reset
1504	OPTION MC COND. ELEMENT SPECIFIED(05:IPH)	Warning 3	WARN RESET

(Option)

Cause: An attempt was made to set optional value for the machining condition element 05: IPH.

The set value of IPH is as follows. *Optional

Description	IPH set value
Standard spec.	0~7,11~18
* Ultra-fine machining circuit unit	20~23

Remedy: Check the set value of machining condition element 05: IPH.

A1505

No.	Name	Level	Reset
1505	OPTION MC COND. ELEMENT SPECIFIED(06:IPL)	Warning 3	WARN RESET

(Option)

Cause: An attempt was made to set optional value for the machining condition element 06: IPL.

The set value of IPL is as follows.

Description	IPH set value
30A(Power unit)	0~27,70~86
*60A Power unit	0~39,70~89
*120A(with booster)	0~49,70~89
*180A(with booster)	0~55,70~89
*240A(with booster)	0~59,70~89
*420A(with booster)	0~64,70~89
*600A(with booster)	0~67,70~89
*Check the set value of machining condition element 06: IPL.	Set Value of 0~No.674(*1) Set Value of 0~No.675(*2) *1: For one carbide machining power unit *2: For two carbide machining power units

Remedy: Check the set value of machining condition element 06: IPL.

A1506

No.	Name	Level	Reset
1506	OPTION MC COND. ELEMENT SPECIFIED(23:MODE3)	Warning 3	WARN RESET

(Option)

Cause: An attempt was made to set optional value for the machining condition element 23: MODE3.

The set value of MODE3 is as follows. *Optional

Description	MODE3 set value
Standard spec.	0~5
*SPG machining circuit	6
* carbide machining power supply	7

Remedy: Check the set value of machining condition element 23: MODE3.

A1507

No.	Name	Level	Reset
1507	OPTION MC COND. ELEMENT SPECIFIED(60:WC1)	Warning 3	WARN RESET

(Option)

Causes: A set value of the option was set on Element Specified (60: WC1).

A set value of MODE3 is as follows.

Optional specification	WC1 value
Standard specification	0,10
※CPBOX1	11~20
※CARBIDE MACHININGCIRCUIT/ CPBOX2/ ULTRA FINE CARBIDE / SUPER SURFACE Gr.	1~9,11~20

Remedy: Check the Element Specified (60: WC1) value.

A1508

No.	Name	Level	Reset
1508	MC CONDITION INTERLOCK (IPH[11-23]) CAN BE SET WHEN τON IS BELOW [5].	Warning 1	WARN RESET

Causes: Machining condition τOn set above 6 when condition element IPH is 11-23.

Remedy: Please modify the element value on IPH or τOn .

τOn have to set below 5 when IPH is 11-23

A1510

No.	Name	Level	Reset
1510	CHANGING MC COND. FOR THE WORSE	Warning 1	WARN RESET

Causes: If the S Control 2 is used, the electrode returns to the machining start point when debris accumulates extremely, but it will return to the machining model start point automatically in 20 to 40 seconds, then the τOFF is changed and machining restarts.

Remedy: The τOFF extends gradually if extremely accumulating debris is not cleared. Clean the machining area if this status continues.

A1513

No.	Name	Level	Reset
1513	CONDITION IS NOT SUITABLE FOR DISCHARGE AREA	Warning 2	WARN RESET

Causes: Many faulty pulses.

Remedy: Change to model data and machining condition for larger discharge area.

A1514

No.	Name	Level	Reset
1514	CHANGING TO A SUITABLE CONDITION	Warning 2	WARN RESET

Description: Many faulty pulses. Automatic change of machining condition is under way.

A1515

No.	Name	Level	Reset
1515	IMPOSSIBLE TO CHANGE TO A SUITABLE CONDITION	Warning 2	WARN RESET

Causes: Because of many faulty pulses, the machining condition was automatically changed, but no improvement can be attained.

Remedy: As further machining cannot improve the finished surface, stop the machining.

A1520

No.	Name	Level	Reset
1520	ILLEGAL CHANGE DATA OF MC COND.(05:IPH)	Warning 3	WARN RESET

Cause: The set value of the machining condition element 05: IPH is incorrect.

The setting range of IPH is as mentioned below. If out of this range, the message is displayed.

Description	IPH set value
30A (Standard spec.)	0~7,11~18

Remedy: Check the set value of machining condition element 05: IPH

A1521

No.	Name	Level	Reset
1521	ILLEGAL CHANGE DATA OF MC COND.(06:IPL)	Warning 3	WARN RESET

Cause: The set value of the machining condition element 06: IPL is incorrect.

The setting range of IPL is as mentioned below. If out of this range, the message is displayed.

Description	IPL set value
30A (Standard spec.)	0~27,70~86

Remedy: Check the set value of machining condition element 06: IPL

A1522

No.	Name	Level	Reset
1522	ILLEGAL CHANGE DATA OF MC COND. (07:SERVO NO.)	Warning 3	WARN RESET

Cause: The set value of the machining condition element 07: SERVO NO. is incorrect.

The setting range of SERVO NO. is as mentioned below. If out of this range, the message is displayed.

Description	SERVO NO. set value
Standard spec.	1~8

Remedy: Check the set value of machining condition element 07: SERVO NO..

A1523

No.	Name	Level	Reset
1523	ILLEGAL CHANGE DATA OF MC COND.(33:V LEVEL)	Warning 3	WARN RESET

(Option)

Cause: The set value of the machining condition element 33: V LEVEL is incorrect.

The setting range of V LEVEL is as mentioned below. If out of this range, the message is displayed.

Description	V LEVEL set value
Standard spec.	0~15
* carbide machining power supply	0~7

Remedy: Check the set value of machining condition element 33: V LEVEL.

A1524

No.	Name	Level	Reset
1524	ILLEGAL CHANGE DATA OF MC COND.(60:WC1)	Warning 3	WARN RESET

(Option)

Cause: The set value of the machining condition element 60: WC1 is incorrect.

The setting range of WC1 is as mentioned below. If out of this range, the message is displayed.

Description	WC1 set value
Standard spec.	0~20
* carbide machining power supply	21~23

Remedy: Check the set value of machining condition element 60: WC1.

A1525

No.	Name	Level	Reset
1525	OPTION MC COND. ELEMENT SPECIFIED (71:AP)	Alarm 2	RESET

(Option)

Causes: A machining condition (E number) command was specified that requires special specifications.

Remedy: Check of E numbers

A1526

No.	Name	Level	Reset
1526	OPTION MC COND. ELEMENT SPECIFIED (72:APP)	Alarm 2	RESET

(Option)

Causes: A machining condition (E number) command was specified that requires special specifications.

Remedy: Check of E numbers

A1527

No.	Name	Level	Reset
1527	ILLEGAL CHANGE DATA OF MC COND. (02:T0FF)	Alarm 2	RESET

Causes: The specified E number exists, but the element value indicated in the message is not within the setting range

Remedy: Check of specified command values or review of machining conditions

A1528

No.	Name	Level	Reset
1528	ILLEGAL CHANGE DATA OF MC COND. (01:T0N, 02:T0FF)	Alarm 2	RESET

Causes: The specified E number exists, but the element value indicated in the message is not within the setting range

Remedy: Check of specified command values or review of machining conditions

A1529

No.	Name	Level	Reset
1529	ILLEGAL CHANGE DATA OF MC COND. (60:WC1)	Alarm 2	RESET

Causes: The specified E number exists, but the element value indicated in the message is not within the setting range

Remedy: Check of specified command values or review of machining conditions

A1530

No.	Name	Level	Reset
1530	ILLEGAL CHANGE DATA OF MC COND. (23:MODE3)	Alarm 2	RESET

Causes: The specified E number exists, but the element value indicated in the message is not within the setting range

Remedy: Check of specified command values or review of machining conditions

A1531

No.	Name	Level	Reset
1531	ILLEGAL CHANGE DATA OF MC COND. (06:IPL)	Alarm 2	RESET

Causes: The specified E number exists, but the element value indicated in the message is not within the setting range

Remedy: Check of specified command values or review of machining conditions

A1532

No.	Name	Level	Reset
1532	ILLEGAL CHANGE DATA OF MC COND. (72:APP)	Alarm 2	RESET

Causes: The specified E number exists, but the element value indicated in the message is not within the setting range

Remedy: Check of specified command values or review of machining conditions

A1533

No.	Name	Level	Reset
1533	OPTION MC COND. ELEMENT SPECIFIED (51:R-OR)	Guide	WARN RESET

(ES200A)

Description: When Mode = [6] (SPG circuit), a machining condition element [R-OR] value was set other than [0].

A1534

No.	Name	Level	Reset
1534	OPTION MC COND. ELEMENT SPECIFIED (54:V-OR)	Guide	WARN RESET

(ES200A)

Description: When Mode = [6] (SPG circuit), a machining condition element [R-OR] value was set other than [0].

A1535

No.	Name	Level	Reset
1535	OPTION MC COND. ELEMENT SPECIFIED (56:H-OR)	Guide	WARN RESET

(ES200A)

Description: When Mode = [6] (SPG circuit), a machining condition element [R-OR] value was set other than [0].

A1548

No.	Name	Level	Reset
1548	MC CONDITION INTERLOCK (65:CC-L1, 67:CC-L2.)	Warning 3	WARN RESET

(ES200A)

Causes: A machining condition element 67:CC-L2 value was set larger than a machining condition element 65:CC-L1 value.

Remedy: Set 67:CC-L2 value smaller than 65:CC-L1 value.

A1552

No.	Name	Level	Reset
1552	OPTION MC COND. ELEMENT SPECIFIED(01:MODE)	Warning 3	WARN RESET

(Option) (ES200A)

Causes: An attempt was made to set optional value (SPG circuit) for the machining condition element 01: MODE1.

Remedy: Check the set value of machining condition element 01: MODE1.

A1555

No.	Name	Level	Reset
1555	ILLEGAL CHANGE DATA OF MC COND.(06:IH)	Warning 3	WARN RESET

(ES200A)

Causes: The set value of the machining condition element 06: IH is incorrect.

Remedy: Check the set value of machining condition element 06: IH.

A1556

No.	Name	Level	Reset
1556	ILLEGAL CHANGE DATA OF MC COND.(07:IL)	Warning 3	WARN RESET

(ES200A)

Causes: The set value of the machining condition element 07: IL is incorrect.

Remedy: Check the set value of machining condition element 07: IL.

A1557

No.	Name	Level	Reset
1557	ILLEGAL CHANGE DATA OF MC COND. (25.SERVO NO.)	Warning 3	WARN RESET

(ES200A)

Causes: The set value of the machining condition element 25: SERVO NO. is incorrect.

Remedy: Check the set value of machining condition element 25: SERVO NO. .

A1558

No.	Name	Level	Reset
1558	ILLEGAL CHANGE DATA OF MC COND.(52:V LV)	Warning 3	WARN RESET

(ES200A)

Causes: The set value of the machining condition element 52: V LV is incorrect.

Remedy: Check the set value of machining condition element 52: V LV.

A1559

No.	Name	Level	Reset
1559	ILLEGAL CHANGE DATA OF MC COND.(18:CAP)	Warning 3	WARN RESET

(ES200A)

Causes: The set value of the machining condition element 18: CAP is incorrect.

Remedy: Check the set value of machining condition element 18: CAP.

A1560 A1561

No.	Name	Level	Reset
1560	OPTION MC COND. ELEMENT SPECIFIED(19:AP)	Warning 3	WARN RESET
1561	OPTION MC COND. ELEMENT SPECIFIED(20:APP)	Warning 3	WARN RESET

(Option) (ES200A)

Causes: A machining condition (E number) command was specified that requires special specifications.

Remedy: Check of E numbers.

A1562 A1566

No.	Name	Level	Reset
1562	MC CONDITION INTERLOCK.(19:AP, 03:OFF)	Warning 3	WARN RESET
1563	MC CONDITION INTERLOCK(19:AP, 02:ON, 03:OFF)	Warning 3	WARN RESET
1564	MC CONDITION INTERLOCK(19:AP, 18:CAP)	Warning 3	WARN RESET
1565	MC CONDITION INTERLOCK(19:AP, 01:MODE)	Warning 3	WARN RESET
1566	MC CONDITION INTERLOCK(19:AP, 07:IL)	Warning 3	WARN RESET

(ES200A)

Causes: When machining condition 19: AP is set, the element value indicated in the message is not within the setting range.

Remedy: Check the set value of each machining condition elements.

A1567

No.	Name	Level	Reset
1567	ILLEGAL CHANGE DATA OF MC COND.(20:APP)	Warning 3	WARN RESET

(ES200A)

Causes: The set value of the machining condition element 20: APP is incorrect.

Remedy: Check the set value of machining condition element 20: APP.

A1568 A1593

No.	Name	Level	Reset
1568	ILLEGAL CHANGE DATA OF MC COND.(04:SVH)	Warning 3	WARN RESET
1569	ILLEGAL CHANGE DATA OF MC COND.(05:SVL)	Warning 3	WARN RESET
1570	ILLEGAL CHANGE DATA OF MC COND.(08:IP)	Warning 3	WARN RESET
1571	ILLEGAL CHANGE DATA OF MC COND.(14:SLP)	Warning 3	WARN RESET
1572	ILLEGAL CHANGE DATA OF MC COND.(15:BSC)	Warning 3	WARN RESET
1573	ILLEGAL CHANGE DATA OF MC COND.(16:ILD)	Warning 3	WARN RESET
1574	ILLEGAL CHANGE DATA OF MC COND.(32:DCS)	Warning 3	WARN RESET
1575	ILLEGAL CHANGE DATA OF MC COND.(33:DCR)	Warning 3	WARN RESET
1576	ILLEGAL CHANGE DATA OF MC COND.(34:DCL)	Warning 3	WARN RESET
1577	ILLEGAL CHANGE DATA OF MC COND.(30:SCT)	Warning 3	WARN RESET
1578	ILLEGAL CHANGE DATA OF MC COND.(31:RCT)	Warning 3	WARN RESET
1579	ILLEGAL CHANGE DATA OF MC COND.(35:RISE1)	Warning 3	WARN RESET
1580	ILLEGAL CHANGE DATA OF MC COND.(36:RISE2)	Warning 3	WARN RESET
1581	ILLEGAL CHANGE DATA OF MC COND.(37:S-LV1)	Warning 3	WARN RESET
1582	ILLEGAL CHANGE DATA OF MC COND.(40:S-TM1)	Warning 3	WARN RESET
1583	ILLEGAL CHANGE DATA OF MC COND.(38:S-LV2)	Warning 3	WARN RESET
1584	ILLEGAL CHANGE DATA OF MC COND.(41:S-TM2)	Warning 3	WARN RESET
1585	ILLEGAL CHANGE DATA OF MC COND.(43:SOR)	Warning 3	WARN RESET
1586	ILLEGAL CHANGE DATA OF MC COND.(29:C-RT)	Warning 3	WARN RESET
1587	ILLEGAL CHANGE DATA OF MC COND.(49:R-LV)	Warning 3	WARN RESET
1588	ILLEGAL CHANGE DATA OF MC COND.(01:MODE)	Warning 3	WARN RESET
1589	ILLEGAL CHANGE DATA OF MC COND.(55:H-LV)	Warning 3	WARN RESET
1590	ILLEGAL CHANGE DATA OF MC COND.(50:R-TM)	Guide	WARN RESET
1591	ILLEGAL CHANGE DATA OF MC COND.(53:V-TM)	Warning 3	WARN RESET
1592	ILLEGAL CHANGE DATA OF MC COND.(13:POL)	Warning 3	WARN RESET
1593	ILLEGAL CHANGE DATA OF MC COND.(17:EXTL)	Warning 3	WARN RESET

(ES200A)

Causes: The specified E number exists, but the element value indicated in the message is not within the setting range.

Remedy: Check of specified command values or review of machining conditions.

A1595 A1597

No.	Name	Level	Reset
1595	ILLEGAL CHANGE DATA OF MC COND.(19:AP)	Warning 3	WARN RESET
1596	ILLEGAL CHANGE DATA OF MC COND.(20:AP-P)	Warning 3	WARN RESET
1597	ILLEGAL CHANGE DATA OF MC COND.(60:AD-SW)	Warning 3	WARN RESET

(ES200A)

Causes: The specified E number exists, but the element value indicated in the message is not within the setting range.

Remedy: Check of specified command values or review of machining conditions.

A1600

No.	Name	Level	Reset
1600	UNNECESSARY WORD PRESENT IN PATTERN COMMAND	Warning 3	WARN RESET

Causes: An unappreciable word (alphabet) is contained in the G74 command block.

Remedy: Correct the program.

A1601

No.	Name	Level	Reset
1601	NECESSARY WORD MISSING IN PATTERN COMMAND	Warning 3	WARN RESET

Causes: The necessary word in combination (alphabet) is missing in the G74 command block.

Remedy: Correct the program.

A1602

No.	Name	Level	Reset
1602	ILLEGAL SET VALUE OF PATTERN COMMAND	Warning 3	WARN RESET

Causes: The set value that is not permitted is specified in the G74 command block.

Remedy: Correct the program.

A1603

No.	Name	Level	Reset
1603	NUMERIC OVER OF ENTRY BLOCK (OPT PAT)	Warning 3	WARN RESET

Causes: In optional pattern, the real number or blocks of the electrode profile registration program is up to 22 blocks. When exceeding this limit, the message appears. Even if the number of blocks is 22 on the program, and any one of the following profile is present, the alarm occurs.

Remedy: Correct the program.

Can be confirmed by drawing 0 No. registered in graphic.

Ex) When the electrode profile registration program is registered in

O100

G91;

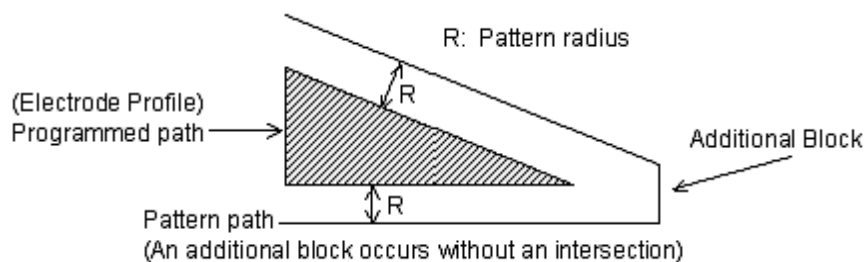
G10 D20 R050; The pattern radius 50 [um] is set

M98 P100 D20; in offset data No. 20

M30;

Make the radius compensation valid in draw-setting on GRAPH screen.(Note)

Note) However, note that correct pattern machining cannot be obtained even if restarted in this condition.



A1604

No.	Name	Level	Reset
1604	NUMERIC ILLEGAL OF ENTRY BLOCK (OPT PAT)	Warning 3	WARN RESET

Causes: The program for registering the electrode profile is not defined in O No. specified as the electrode profile registration program.

Remedy: Correct the program.

Note) However, note that the correct pattern machining cannot be performed even if restarted in this v condition.

A1605

No.	Name	Level	Reset
1605	NO CLOSE PATTERN OF ENTRY PROGRAM (OPT PAT)	Warning 3	WARN RESET

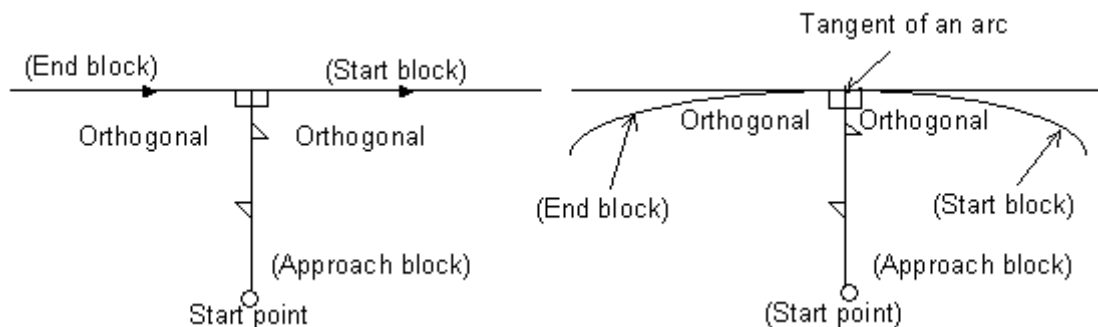
Causes: The alarm occurs when the path of the electrode profile registration program is not closed, or when the approach block and start block, or the end block and approach block don't orthogonal.

Also, when specifying the optional pattern during radius compensation (G41, G42), the alarm occurs.

Note) Program the electrode profile registration program by increment image. Even if G90 is specified in the electrode profile registration program, this is ignored.

Remedy: Correct the program.

Note) However, note that the correct pattern machining cannot be performed even if restarted in this condition.



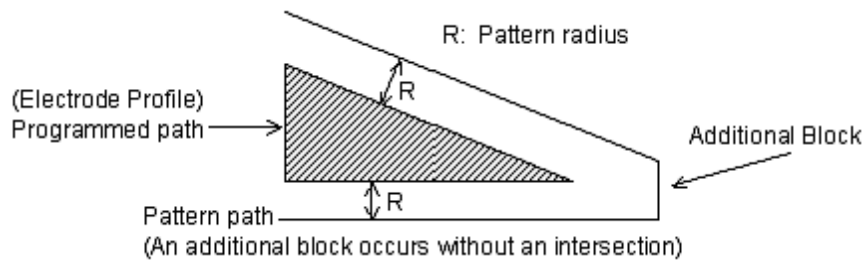
A1606

No.	Name	Level	Reset
1606	PROGRAM ERROR (OPT PAT)	Warning 3	WARN RESET

Causes: When the profile as shown below occurs, the correct pattern cannot be obtained. So, the message is displayed. Also, displayed when the optional pattern is specified during the radius compensation (G41, G42).

Remedy: Correct the program.

Note) However, note that the correct pattern machining cannot be performed even if restarted in this condition.

**A1607**

No.	Name	Level	Reset
1607	ILLEGAL AXIS IN PROGRAM (OPT PAT)	Warning 3	WARN RESET

Causes: For the electrode shape register program, only X and Y axes can be specified with an incremental command, and therefore create a program on the X-Y plane. In the case of one- axis servo, select a plane perpendicular to axis progress direction as a pattern plane.

Remedy: Correct the program.

Note) However, note that the correct pattern machining cannot be performed even if restarted in this condition.

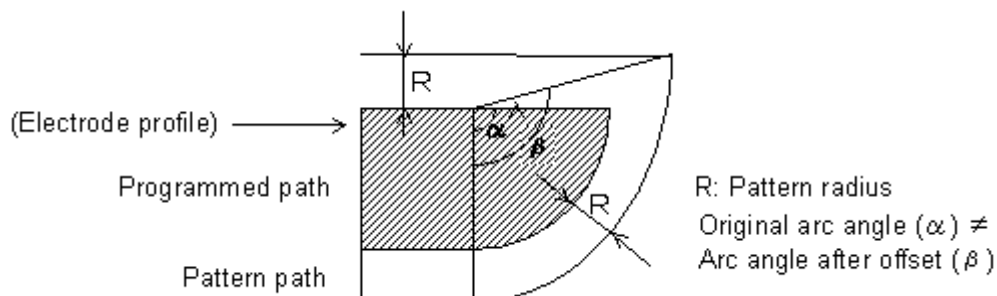
A1608

No.	Name	Level	Reset
1608	NO CONTACT OF ARC START OR END (OPT PAT)	Warning 3	WARN RESET

Causes: The arc command block in the electrode profile registration program is not in contact with the preceding and following blocks.

Remedy: Correct the program.

Note) However, note that the correct pattern machining cannot be performed even if restarted in this condition.



A1611

No.	Name	Level	Reset
1611	ILLEGAL PATTERN RADIUS (R)	Warning 3	WARN RESET

Causes: The set pattern radius (R) in the G74 (pattern) command is outside the range.

Remedy: Correct the program.

A1612

No.	Name	Level	Reset
1612	ILLEGAL PATTERN DETAIL(P)	Warning 3	WARN RESET

Causes: The set pattern detail (P) in the G74 (pattern) command is outside the range.

Remedy: Correct the program.

A1613

No.	Name	Level	Reset
1613	ILLEGAL PATTERN PERIPHERAL SPEED(F)	Warning 3	WARN RESET

Causes: The set pattern peripheral speed (F) in the G74 (pattern) command is outside the range.

Remedy: Correct the program.

A1614

No.	Name	Level	Reset
1614	ILLEGAL PATTERN ROTATION ANGLE(A)	Warning 3	WARN RESET

Causes: The set pattern rotation angle (A) in the G74 (pattern) command is outside the range.

Remedy: Correct the program.

A1615

No.	Name	Level	Reset
1615	ILLEGAL TYPE OF PATTERN(L)	Warning 3	WARN RESET

Causes: The set pattern type (L) in the G74 (pattern) command is outside the range.

Remedy: Correct the program.

A1700

No.	Name	Level	Reset
1700	ILLEGAL FEED RATE PARAMETER	Alarm 2	RESET

Causes: The parameter value related to the feed rate is illegal and thus the feed rate cannot be calculated.

Remedy: In case of frequent occurrence, contact us of the trouble procedure.

A1701

No.	Name	Level	Reset
1701	INDEXING ROTARY AXIS CAN NOT ZERO RETURN	Warning 1	WARN RESET

Causes: If the 4th and 6th axes are used as an index axis or rotary axis, the zero return command cannot be executed because there is no machine origin. In the case of work reverse unit, this message is displayed if the [RESET] key is pressed during indexing operation stop the operation and the zero return model is selected.

Remedy: Correct the program, or confirm the manual operation.

A1702

No.	Name	Level	Reset
1702	PLEASE OPERATE ZERO RETURN (ROTARY HEAD)	Warning 3	RESET

Causes: An attempt was made to perform manual operation without the rotary head (loader axis) subjected to reference position return.

Remedy: Make sure that the rotary head (loader axis) is subjected to reference to position return.

A1716

No.	Name	Level	Reset
1716	AXIS APPOINT ERROR IN G84,G85,G86 COMMAND	Alarm 2	RESET

Causes: X, Y, Z, and C axes are specified in error at G84 - G86 automatic measurement.

Remedy: Correct the program.

A1717

No.	Name	Level	Reset
1717	MEASURE APPROACH ERROR	Alarm 2	RESET

Causes: At the time of automatic measurement (G84, G85, G86: fixed cycle), the amount of movement (approach amount) instructed before the electrode and the workpiece are in contact has ended.

Remedy: Increase the commanded movement amount (approach amount).

A1718

No.	Name	Level	Reset
1718	MEASURE COMMAND FORBIDDEN IN SCALING MODE	Alarm 2	RESET

Causes: G84 - G86 has been commanded during the G48.

Remedy: Correct the program.

A1719

No.	Name	Level	Reset
1719	MEASURE APPROACH SHORT VOLUME	Alarm 2	RESET

Causes: The electrode and the workpiece have got out of touch in the commanded movements at the G84 - G86 automatic measurement command block.

Remedy:

- (1) Confirm the distance between the electrode and the workpiece (also the program, definition of the applied word, and the actual distance).
- (2) Confirm the continuity between the electrode and the workpiece (the electrode holding condition, and dirt on the contact surface such as a glue stain).

A1720

No.	Name	Level	Reset
1720	ELECTRODE No. ERROR	Alarm 2	RESET

Causes: There was an error in the electrode position offset No. for the measurement. Electrode No.T0 - T31

Remedy: Correct the program.

A1721

No.	Name	Level	Reset
1721	MOVING AMOUNT ERROR IN G81,G82,G83 COMMAND	Alarm 2	RESET

Causes: Axis is not commanded in the same block as G81, G82, and G83.

Remedy: Correct the program.

A1722

No.	Name	Level	Reset
1722	G82 COMMAND IS VALID ONLY AFTER G81 COMMAND	Alarm 2	RESET

Causes: G82 is commanded without specifying G81.

Remedy: Correct the program.

A1723

No.	Name	Level	Reset
1723	TIME SET ERROR FOR TIME CONTROL MC	Alarm 2	RESET

Causes: P value was an error in time control machining in the fixed cycle (G81 - G83) command block.

Time control P1 - P9999 min.

Remedy: Correct the program.

A1724

No.	Name	Level	Reset
1724	FORCES MACHINE BLOCK TO SKIP	Warning 1	WARN RESET

Description: Restart is executed while pressing a function key on the portable operation panel after the machining blocks are forcibly skipped by the SKIP function (118 is set to system parameter No.964 - 979) on the portable operation panel.

A1725

No.	Name	Level	Reset
1725	PLEASE INPUT MEA. DIA.	Alarm 2	RESET

Causes: The electrode diameter (P code) is not specified though a measuring type (L code) in the internal positioning command block (G85) is 1 (inner diameter).

Remedy: Correct the program.

A1729

No.	Name	Level	Reset
1729	INVALID MEASURE COMMAND AT DRY RUN	Warning 1	WARN RESET

Causes: The measurement was commanded during the dry run.

Remedy: As the measurement is not made in the dry run perform it in off dry run.

A1750

No.	Name	Level	Reset
1750	MEASUREMENT ERROR OUT OF RANGE. CONTINUE? YES: [START] KEY, NO [RESET] KEY.	Warning 3	WARN RESET

Causes: When the measuring function of the model plan G125 (Measure sphere/Center sphere), or G126 (Electrode/Center sphere) is performed.

The error gained from comparing the first result of measuring and the succeeding measuring results (up to five times) is greater than the allowable value for the measuring error.

Remedy: Clean the materials to be measured.

The message is deleted automatically when restarting after the message is displayed.

A1753

No.	Name	Level	Reset
1753	CENTER COORDINATE MEASUREMENT ERROR OUT OF	Warning 2	WARN RESET

Causes: When repetitive measurement on setup and model plan was performed the specified number of times, error in the center coordinate measurements exceeded the measurement error tolerance.

Remedy: Clean the materials to be measured.

The message is deleted automatically when restarting after the message is displayed.

A1790 A1799

No.	Name	Level	Reset
1790	BLOCK DATA ERROR (1)	Alarm 2	RESET
1799	BLOCK DATA ERROR (10)	Alarm 2	RESET

Causes: Internal data check error in NC program run system.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

A1802

No.	Name	Level	Reset
1802	CAN'T CANCEL RS232C IN/OUT	Warning 2	WARN RESET

Causes: RS232C input/output operation was cancelled by the [RESET] key, but cancel operation was not completed within the fixed time (0.5 sec).

Remedy:

- (1) Operate again or turn power on again.
- (2) In case of frequent occurrence, contact us of the trouble procedure.

A1810 A1812

No.	Name	Level	Reset
1810	ALL NC PROGRAMS CLEARED BY POWER OFF ERROR	Alarm 2	See Remedy
1811	SYSTEM RESERVE PROGRAM-CLEAR BY POWER OFF ERROR	Alarm 2	See Remedy
1812	USER PROGRAM CLEARED BY POWER OFF ERROR	Alarm 2	See Remedy

Causes: The generator was switched off in the following conditions.

- (1) The program was closed in the Program: Block screen.
- (2) Dividing was operating in the Program: List screen.
- (3) The RS232C was being input.
- (4) During deletion in the Program: List screen.

Check others such as RAM fault with VMC card when occurring again even after RAM in the following section is cleared.

Remedy:

- (1) In case of frequent occurrence, contact us about the trouble procedure.
- (2) Register again the system macro and the user program after RAM is cleared.

A1813

No.	Name	Level	Reset
1813	EDIT STOPPED BY POWER OFF ERROR	Alarm 2	RESET

Causes: The generator was turned off during editing the program on Program: Block screen.

Remedy: Re-edit the O No. program which was being edited on the Program: List screen and close the program.

A1928

No.	Name	Level	Reset
1928	UNSUITABLE FOR C CODE	Warning 3	WARN RESET

(Option)

Causes: For the DH head function (M18), the out-of-range face (degree) was designated. Face designation (C: 1~8), Degree designation (C: 0, 45~315).

Remedy: Correct the program.

A1931

No.	Name	Level	Reset
1931	UNSUITABLE FOR F CODE	Warning 1	WARN RESET

(Option)

Causes: When M600/610/620 is executed, the F code deviates from the specified range.

F: Start conditions (0, 1, and 2)

Remedy: Correct the program.

A1937

No.	Name	Level	Reset
1937	UNSUITABLE FOR L CODE	Warning 1	WARN RESET

(Option)

Causes: When M810/820 is executed, the L code deviates from the specified range.

Remedy: Correct the program.

A1941

No.	Name	Level	Reset
1941	UNSUITABLE FOR P CODE	Warning 1	WARN RESET

(Option)

Causes:

(1) When M810/820 is executed, the P code deviates from the specified range.

P: Set No. on pallet (1~10)

(2) When M600 is executed, the P code deviates from the specified range. P: Pallet No. (1~10)

Remedy: Correct the program.

A1945

No.	Name	Level	Reset
1945	UNSUITABLE FOR T CODE	Warning 1	WARN RESET

(Option)

Causes: When M810/820 is executed, the T code is not specified. If L1 is specified, the T code can be omitted.

Remedy: Correct the program.

A1948

No.	Name	Level	Reset
1948	UNSUITABLE FOR W CODE	Warning 1	WARN RESET

(Option)

Causes: When M810/820 is executed, the W code deviates from the specified range.

W: Pallet type (0, 1)

Remedy: Correct the program.

A1960

No.	Name	Level	Reset
1960	INVALID PARAMETER (STAND ELCT NO.)	Warning 3	WARN RESET

Causes: With the set data No.622 "STANDARD ELECTRODE NO." set to "33~1000 ", T code was executed with the positioning canned cycle G85 and G86.

Remedy: Correct the set value of parameter No.0622, and then restart.

A1961

No.	Name	Level	Reset
1961	INVALID PARAMETER (AXIS CODE)	Alarm 1	RESET

Causes: Model G135 (axis offset data output) was executed when valid axis is other than X (58), Y (59), Z (5A), U (55), V (56), W (57), C (43) and B (42).

Remedy: Press the [RESET] key, then change the parameter No.501- 505 "AXIS ADDRESS (1) ~ (6)" value of axis address, and retry output operation.

A2001

No.	Name	Level	Reset
2001	DIELECTRIC LEVEL LOW	Warning 3	WARN RESET

Causes: The surface of the dielectric has fallen 60 mm below the normal level in the work tank.

Remedy: Press the [WARN RESET] key to clear the alarm message, and then push the [FLUID] key to fill the work tank.

(1) If the dielectric does not flow out:

- Check the pump operation.
- Check the piping.

(2) Though the dielectric flows out, it does not fill the tank:

- Check the pressure of the seal pump. (1.2[MPa]~0.9[Mpa])
- Check the seal rubber of the pump.

A2002

No.	Name	Level	Reset
2002	LUBRICANT PRESSURE LOW	Warning 3	WARN RESET

Causes: The lubricant is running low (Used in combination with seal oil).

Remedy: Supply the lubricant (such as Shell tona oil - T68).

A2003

No.	Name	Level	Reset
2003	PUMP IS STOPPING (PUMP OFF SW ON OR AIR PRESSURE LOW(HQSF))	Warning 3	WARN RESET

(Option)

Causes:

(1) Turn on the pump off switch in the intermediate terminal box of the dielectric fluid supply unit.
Or, the thermal fell.

(2) The air pressure switch becomes on.

Remedy: Check the above points.

A2004

No.	Name	Level	Reset
2004	ATC (3R) ERROR	Alarm 2	RESET

(Option)

Causes: See the System 3R Instruction Manual.

A2005

No.	Name	Level	Reset
2005	ATC (3R) TANK INTERFERENCE AREA	Alarm 1	WARN RESET

(Option)

Causes: Under the 3R-HR1 (ATC&C axis) condition, the ATC arm comes in touch with the work tank.

Remedy: Lower down the work tank.

From the table upper surface:

A2006

No.	Name	Level	Reset
2006	ATC START COND. NOT SATISFIED	Warning 3/1	WARN RESET
		Alarm 1	RESET

(Option)

Causes: The following starting conditions are not satisfied:

- (1) X, Y, and Z axes are not positioned at the ATC position.
- (2) The position of MA-head or DH-head is not zero.
- (3) The retract-LS, CW-LS or gripper-close-LS of ATC arm is off.
- (4) The sprocket of the ATC magazine is not switched on.
- (5) For some axes, the reference point return is not carried out.
- (6) The axis is not at the exchange position.
- (7) ATC cover is open.

Remedy: Take an appropriate measure according to the cause. Also, for robot, reset the NC to return the robot to the stand-by position, and empty the machine spindle before start again.

In case of pallet magazine unit, after registration, reset the NC unit and turn on the [POWER] and [REFERENCE POINT RETURN] keys on the POD.

If the ATC cover is open, close it. Also, if ATC cover is open in the ATC standby check, the warning is given. Restart is possible after the ATC cover is closed.

A2008

No.	Name	Level	Reset
2008	ILLEGAL C CODE	Warning 3	WARN RESET

(Option)

Causes: C axis is commanded for a machine with no special specification(C axis).

Remedy: Correct the program.

A2009

No.	Name	Level	Reset
2009	ILLEGAL M CODE	Warning 3/1	WARN RESET

(Option)

Causes: M is commanded for a machine with no special specification (M code):

- (1) MA (MR) head: M03, M05, M56, M57
- (2) ATC: M06, M07, M08
- (3) Flow dividing valve: M09, M40 - M49, M50
- (4) Tank up or down: M58, M59
- (5) Pallet change: M60
- (6) Robot: M6 L_T_; Format error
- (7) SL function: M70, M71
- (8) Rotary axis brake function: M78, M79
- (9) Pallet magazine unit: M500, M580, M581, M590, M600, M610, M620, M650, M660, M700, M710, M810, M820

Remedy: Correct the program.

Setting of option parameter.

A2010

No.	Name	Level	Reset
2010	ILLEGAL S CODE	Warning 3	WARN RESET

(Option)

Causes: S is commanded for a machine with no special specification (main axis turning).

(1) MA Head

(2) MR Head

Remedy: Correct the program.

A2011

No.	Name	Level	Reset
2011	ILLEGAL T CODE	Warning 3	WARN RESET

(Option)

Causes: T is commanded for a machine with no special specification (ATC).

Remedy: Correct the program.

A2012

No.	Name	Level	Reset
2012	T CODE MISSING	Warning 3	WARN RESET

(Option)

Causes: T is not commanded because of random ATC command.

Remedy: Correct the program.

A2013

No.	Name	Level	Reset
2013	MC RUN TIME OUT	Warning 3/1	WARN RESET

Causes: Something is wrong with the machining (ATC, MA head, PM, AGC, and others) so that time went on machining inefficiently.

Remedy: The solenoid, pump or the limit switch is suspected faulty. Contact to us for repair.

A2014

No.	Name	Level	Reset
2014	AT DIELECTRIC OFF	Warning 1	WARN RESET

Causes:

- (1) With the PUMP OFF switch on the dielectric fluid supply unit turned on, the [FLUID] key was turned on.
- (2) If the machining power is ON, the [FLUID] key and the float switch are not turned on.
- (3) The circuit breaker or thermal relay for μ SC unit (option) tripped.
- (4) With the PUMP OFF switch on the dielectric fluid supply unit turned on, the [START] key was pressed.
- (5) With the [FLUID] key turned off, the [BLOW] button (high pressure blow, low pressure blow) was operated.

Remedy:

- (1) Turn off the PUMP OFF switch on the dielectric fluid supply unit, and turn on the
- (2) [FLUID] key.
- (3) Turn on the [FLUID] key and fill dielectric fluid so that the float switch turns on.
- (4) Check the breaker or thermal relay for the μ SC unit (optional) and please contact us.
- (5) Turn off the PUMP OFF switch on the dielectric fluid supply unit, and turn on the
- (6) [START] key.
- (7) Turn on the [FLUID] key and retry.

Note) if the machining is on the way in (1) and (2), press the [RESET] key to interrupt the machining program.

A2015

No.	Name	Level	Reset
2015	AT INDEX FIX LIMIT OFF	Warning 3	WARN RESET

(Option)

Causes:

- (1) Though indexing operation with the MA head is selected, the machine keeps C axis condition.
 - (2) An attempt to move other axis in auto mode was made when the B axis is unclamped. The one -touch zero return operation was made with the portable operation panel when the B axis is unclamped.
- Note) However, in the manual mode, other axis can be moved even when the B axis unclamped. (Work reverse unit)

Remedy:

- (1) Remove the bellows and confirm the machine function through a limit hole.
- (2) While machine system functions normally, the limit sensor or the connector is suspected faulty.
- (3) If the machine system does not function, the solenoid valve or the machine system is suspected faulty.
- (4) In case of work reverse unit, position the B axis to exact position manually, then retry.

A2016

No.	Name	Level	Reset
2016	AT DOOR FIX LIMIT OFF	Warning 3/1	WARN RESET

(Option: Large-sized work tank door up/down)

Causes:

- (1) The work tank door is not fixed. (The door closes LS or door clamp LS turned off.)
- (2) In an occasion of the work tank door unlocked, μ SC recovery operation was performed.

Remedy: Raise the work tank door until the door is clamped, then lock the lever.

A2017

No.	Name	Level	Reset
2017	MC SEQUENCE MACRO PROGRAM ERROR	Warning 3	WARN RESET

Causes: An error occurred in the operating process of the system program "Machine sequence macro".

Remedy: In case of frequent occurrence, contact us of the trouble procedure.

A2018

No.	Name	Level	Reset
2018	POSITION CANNOT BE INDEX OR ROTATION	Warning 3	WARN RESET

(Option)

Causes: Indexing was attempted to a position other than MA head indexing unit. (MA head indexing unit is 15° and the machine parameter No.630 "NO. OF MA HEAD INDEX POS.")

Remedy: Correct the program.

A2019

No.	Name	Level	Reset
2019	AT INVALID C AXIS	Warning 3	WARN RESET

(Option)

Causes: C axis was commanded in invalid C axis.

Remedy: Correct the program.

A2020

No.	Name	Level	Reset
2020	START COND. NO-GOOD (P/C, P/M)	Warning 3/1	WARN RESET

(Option)

Causes:

(1) When M600/610/620 is executed, the following start conditions have not yet been established.

- X, Y, Z (or B) axes are in the start position (depending on the F parameters).
- Work tank is in the lower limit position
- ARM-RET1-LS ON
- ARM-RET2-LS ON
- ARM-DOWN-LS ON
- PM air pressure switch is turned off (optional)

(2) On the M.CONTROL P/M screen, when the [-> chuck] button or [magazine2 -> chuck] button is pressed, the start conditions (work tank in lower limit position, X axis in machine zero point (or 2nd reference point), Z axis in machine zero point) are not satisfied.

(3) When performing manual indexing, the start conditions (ARM-RET1-LS ON, ARM- DOWN-LS ON) are not satisfied.

Remedy: Check again each element of the pallet change or pallet magazine unit.

A2021 A2022

No.	Name	Level	Reset
2021	LOADING NO-GOOD (P/C, P/M)	Warning 3	WARN RESET
2022	UNLOADING NO-GOOD (P/C, P/M)	Warning 3	WARN RESET

(Option)

Causes: Start condition for pallet change or pallet magazine is not satisfied.

Remedy: Check again each element of the pallet change or pallet magazine unit.

A2023

No.	Name	Level	Reset
2023	P/C SAFETY CHECK	Warning 3	WARN RESET

(Option)

Causes: When the pallet change operates, each element is checked before the specified command is executed to protect against getting in interlocked each other.

Remedy: See the interlock check item in the operation manual to check the above elements.

A2024

No.	Name	Level	Reset
2024	EXTERNAL UNIT ERROR	Warning 3	WARN RESET

(Option)

Causes: Alarm in external unit (such as non-MINPULS 1-axis

NC).Remedy: See the Instruction Manual for that unit.

A2025

No.	Name	Level	Reset
2025	ROTARY BRAKE SEQUENCE TIME OUT	Alarm 2	RESET

(Option)

Causes: The brake OFF operation was not completed within 1 second.

Remedy: The brake system such as a solenoid will be defective, and therefore please contact us.

A2026

No.	Name	Level	Reset
2026	PLEASE CLOSE THE FRONT DOOR OF WORK TANK	Warning 1	WARN RESET

Causes: Fluid ON was operated when the front door of work tank is opened. Effective in EDNC20, 21, 15.

Remedy: Please confirm that the front door of work tank is closed and try again.

A2027

No.	Name	Level	Reset
2027	WORK TANK IS MOVING	Warning 1	WARN RESET

Causes: Fluid ON was operated when the work tank is moving.

Remedy: Fluid ON cannot be operated when the work tank is moving (except during ATC exchange).

A2028

No.	Name	Level	Reset
2028	PLEASE UNCLAMP THE DOOR OF WORK TANK	Warning 1	WARN RESET

Causes: When the front door of work tank is operated, the door-clamping lever has not been released.

Remedy: Please release the door-clamping lever and try again.

A2029

No.	Name	Level	Reset
2029	WORK TANK START COND. NOT SATISFIED	Warning 3/1	WARN RESET

(Option)

Causes:

- (1) On 1, 2 the magazine retract LS (group No.33 bit 2) is OFF.
- (2) On the loader axis pallet magazine unit, the arm retract 2 LS (group No.B9 bit 3) is OFF.
- (3) In the work tank running, μ SC collect operation was performed.
- (4) In an occasion of the work tank door unlocked, μ SC recovery operation was performed.

Remedy: Take corrective action based on the cause.

A2030

No.	Name	Level	Reset
2030	FLUID OVER FLOW	Warning 3/1	WARN RESET

Description: Fluid in the work tank overflowed.

Causes: The surface of the dielectric has risen little by little because draining was out of balance with the dielectric fullness.

The float was faulty so that the rapid pump did not stop its operation.

* This message is displayed even if during μ SC collect operation.

Remedy: Repair the above faulty unit.

A2031

No.	Name	Level	Reset
2031	WORK TANK TOO LOW	Warning 3/1	WARN RESET

Causes: When the work tank which functions for raising and lowering, is positioned below 100mm (30mm for 2, 150mm for EDNC-106W) of the height limit, machining is prohibited.

Remedy: Position the work tank above 100mm (30mm for 2, 150mm for EDNC-106W) of the height limit.

A2032 A2034

No.	Name	Level	Reset
2032	FILTER LIFE OVER (NO.1)	Warning 3	WARN RESET
2033	FILTER LIFE OVER (NO.2)	Warning 3	WARN RESET
2034	FILTER LIFE OVER (NO.1, 2)	Warning 3	WARN RESET

(Option)

Causes: The filter pressure switch operated in the pallet change.

Remedy: Replace the filter with a new one.

A2035

No.	Name	Level	Reset
2035	CANNOT USE SL AND A.W.A. BLOW	Warning 3	WARN RESET

(Option)

Causes: The SL unit and A.W.A. blow unit cannot be used simultaneously.

Remedy: Use either SL unit or A.W.A. blow unit.

A2036

No.	Name	Level	Reset
2036	SETUP OR LIFT UP THE WORK TANK COVER	Warning 3	WARN RESET

(Option)

Causes:

- (1) The work tank cover is opened during machining.
- (2) The work tank cover is opened. [The cover LS is active.]
- (3) [SET UP] key was turned on.

Remedy:

- (1), (2) Raise the work tank cover up to the top position, and press the [WARN RESET] key to turn off the WARNING lamp, and then restart.
- (3) Please turn off the [SET UP] key.

A2037

No.	Name	Level	Reset
2037	INSULATION LEVEL LOW	Warning 1	WARN RESET

(Option)

Causes: The insulation level of dielectric fluid dropped.

Remedy: Wait until the insulation level is restored and the alarm message disappears before finish machining.

A2038

No.	Name	Level	Reset
2038	ION EXCHANGE RESIN NEEDS REPLACING	Warning 1	WARN RESET

(Option)

Causes: The ion exchange resin alarm signal has been output for more than 24 hours.

Remedy: Replace the ion exchange resin.

A2039

No.	Name	Level	Reset
2039	ILLEGAL B CODE	Warning 3	WARN RESET

(Option)

Causes:

- (1) In auto mode, illegal index value B was specified, or auto indexing started from illegal position.
- (2) Auto zero return operation (G28) of the B axis (6th axis) was attempted.

Remedy:

- (1) Specify a multiple of unit angle.
- (2) The B axis (6th axis) cannot return to the zero point automatically. Return it to the zero point manually.

A2040

No.	Name	Level	Reset
2040	C AXIS SELECT-LS TIME OUT (ROTATION HEAD)	Warning 3	WARN RESET

(Option)

Causes: Though M57 (C axis mode selection) is commanded for MA head, C axis selection complete signal (EIO input signal, Group No. 30, Bit 0 "C-LS", #10480) is not output within 60 sec.

Remedy: In case of frequent occurrence, contact us of the trouble procedure.

A2041

No.	Name	Level	Reset
2041	NO PALLET (ON MACHINE)	Warning 3	WARN RESET

(Option)

Causes:

- (1) No pallet is present in the machine or it is not clamped when the FLUID switch was turned on.
- (2) A pallet to be unloaded is not present in the machine when the M60 P₁; was executed.

Remedy:

- (1) Load a pallet on the machine or clamp it, then turn on the FLUID switch.
- (2) Correct the program.

A2042

No.	Name	Level	Reset
2042	NO PALLET (ON CARRIER)	Warning 3	WARN RESET

(Option)

Causes: A pallet to be unloaded is not present on the carrier when the M60 P₁; was executed.

Remedy: Correct the program.

A2043

No.	Name	Level	Reset
2043	NO PALLET (ON COMMAND STOKER NO.)	Warning 3	WARN RESET

(Option)

Causes:

- (1) A pallet to be taken out is not present in the specified stoker No. when the M60 P₁; was executed.
- (2) The pallet No., the electrode ID No., or the work ID No. is not registered to the pallet magazine when the M600; /M610; /M620; was executed.

Remedy:

- (1) Correct the program.
- (2) Register the pallet No. to the pallet magazine.

After registration, reset the NC unit and turn on the [POWER] and [REFERENCE POINT RETURN] keys on the POD.

A2044

No.	Name	Level	Reset
2044	READY LAMP OFF (COMMAND STOKER NO.)	Warning 3	WARN RESET

(Option)

Causes: The READY lamp on the specified stoker No. is off.

Remedy: The READY lamp is on or corrects the program.

A2045

No.	Name	Level	Reset
2045	NO ARM ON CARRIER	Warning 3	WARN RESET

(Option)

Causes: The arm is not positioned on the carrier when the M60 P₂ is executed.

Remedy: Advance the arm toward the machine or work station, then return it to the carrier.

Ex) The M630; M631; in the MDI mode or M640; M641; is executed.

A2046

No.	Name	Level	Reset
2046	AT UNLOCK ARM	Warning 3	WARN RESET

(Option)

Causes: The arm is not locked when the M60 P₂ is executed.

Remedy: Execute the M620; in the MDI mode to lock the arm.

A2047

No.	Name	Level	Reset
2047	FILTER EXCHANGE PERIOD	Warning 1	WARN RESET

(OPTION)

Description: Reached the time to replace the dielectric fluid filter.

Cause: Dielectric fluid filter pressure has reached the filter replacement warning pressure (PRM796).

Action: Replace the dielectric fluid filter.

A2048

No.	Name	Level	Reset
2048	ION EXCHANGED OFF ([ION EXCHANGE OFF] BUTTON ON)	Warning 1	WARN RESET

(EDBV series)

Causes: Turned on the [ION EXCHANGE OFF] button on the machine operation screen.

Remedy: Turn off the button when ion exchange resin operation is finished.

A2049

No.	Name	Level	Reset
2049	Robot alarm	Warning 3	WARN RESET

(Option)

Causes: During electrode change by robot, an error occurred on the robot side.

Remedy: Check the robot condition and reset the robot error.

A2050

No.	Name	Level	Reset
2050	NO RESPONSE OF CONTROL COMMAND (ATC, P/M)	Warning 1	WARN RESET

(Option)

Causes:

- (1) The answer (ACK, NAK) to the exchange command was not gained from the robot in 30 sec.
- (2) No response (whether command was received successfully or not) is returned from pallet magazine within 30 sec. Or, the [RESET] key was pressed immediately after start.

Remedy:

- (1) The mode of robot is not automatic, or disconnection of RS232C is suspected. After checking the above, reset the NC to return the robot to the starting position, and empty the machine spindle before start again.
- (2) RS232C will be disconnected. Check for connection.
After registration, reset the NC unit and turn on the [POWER] and [REFERENCE POINT RETURN] keys on the POD.
If the trouble repeats frequently, contact us of the trouble procedure.

A2051

No.	Name	Level	Reset
2051	RETRY OVER OF ATC CONTROL COMMAND	Warning 3	WARN RESET

(Option)

Causes: The exchange command was issued to the robot three times repeatedly, but they were treated as abnormal data.

Remedy: Disconnection of RS232C is considered. After checking the above, reset the NC to return the robot to the stand-by position, and empty the machine spindle before start again.
If the trouble repeats frequently, contact us of the trouble procedure.

A2052

No.	Name	Level	Reset
2052	ACTION TIME OUT (ATC, P/M)	Warning 3	WARN RESET

(Option)

Causes:

- (1) In case of the robot, the exchange operation was not completed in the fixed amount of time (about 3 min.).
- (2) In case of the pallet magazine unit, the operation designated was not finished within the specified time (about 3 or 10 minutes).

Remedy:

- (1) Reset the NC to return the robot to the stand-by position, and empty the machine spindle before start again.
- (2) After checking, reset the NC unit and turn on the [POWER] and [REFERENCE POINT RETURN] keys on the POD.
If the trouble repeats frequently, contact us of the trouble procedure.

A2053

No.	Name	Level	Reset
2053	ROBOT ERROR AT ATC	Warning 3	WARN RESET

(Option)

Causes: The robot error occurred during exchange.

Remedy: After checking the above, reset the NC to return the robot to the stand-by position, and empty the machine spindle before start again. In case of frequent occurrence, contact us of the trouble procedure.

A2054

No.	Name	Level	Reset
2054	TURN TO MANUAL AT ATC	Warning 3	WARN RESET

(Option)

Causes:

- (1) The MANUAL mode was selected during change in the AUTO mode.
- (2) The robot operation started in the manual mode.

Remedy:

- (1) Reset the NC to return the robot to the stand-by position, and empty the machine spindle and check the robot mode (auto-mode) before start again. If the trouble repeats frequently, contact us of the trouble procedure.
- (2) Change the robot mode to automatic mode, then restart the operation.

A2055

No.	Name	Level	Reset
2055	RS232C EXECUTION	Warning 3	WARN RESET

(Option)

Causes:

- (1) In case of the robot, because of RS232C in use, ATC of the robot cannot be activated.
- (2) In case of the pallet magazine unit, RS232C is busy now and communication with pallet magazine is not available.

Remedy:

- (1) After the indication for RS in input, RS in output or RS in communicate on the condition display panel goes out, reset NC to return the robot to stand-by position, and empty the machine spindle before start again.
- (2) Restart after RS INPUT, RS OUT or RS COMMU. Message in the status display area disappears.

A2056

No.	Name	Level	Reset
2056	COMMAND RETRY ERROR	Warning 3	WARN RESET

(Option)

Causes: An attempt to send a command to the pallet magazine failed three times.

Remedy: RS232C will be disconnected. Check for connection.

After checking, reset the NC unit and turn on the [POWER] and [REFERENCE POINT RETURN] keys on the POD.

A2057

No.	Name	Level	Reset
2057	RESPONSE DATA ERROR	Warning 3	WARN RESET

(Option)

Causes: A response to the command from pallet magazine is not normal.

Remedy: RS232C will be disconnected. Check for connection.

After checking, reset the NC unit and turn on the [POWER] and [REFERENCE POINT RETURN] keys on the POD.

A2058

No.	Name	Level	Reset
2058	PALLET UNIT ERROR	Warning 3	WARN RESET

(Option)

Causes: The pallet magazine operation is interrupted due to, for instance, interference between arm and pallet.

Remedy: Check for cause of pallet magazine unit failure.

After checking, reset the NC unit and turn on the [POWER] and [REFERENCE POINT RETURN] keys on the POD.

A2059

No.	Name	Level	Reset
2059	UNIT NO. ERROR	Warning 3	WARN RESET

(Option)

Causes: A response to the command is returned from a unit other than pallet magazine.

Remedy: After checking, reset the NC unit and turn on the [POWER] and [REFERENCE POINT RETURN] keys on the POD.

A2060

No.	Name	Level	Reset
2060	EXISTENCE OF WORK OR TOOL ERROR	Warning 1	WARN RESET

(Option)

Causes:

(1) ATC standby check

- No holder is present in the ATC magazine at unloading.
- A holder is already present in the ATC magazine at loading.

(2) Pallet magazine unit

- A pallet is already present on the pallet magazine when executing M610; command (P/M 10).
- No pallet is present on the pallet magazine when executing M600; / M620; command.
- When M810 (L1 is not specified) is executed, the holder is set to the ATC magazine.
- When M820 (L1 is not specified) is executed, the holder is not set to the ATC magazine.
- At the chuck operation with the P/M screen, the pallet exit on the carrier.
- At the magazine operation with the P/M screen, the ARM-DN-LS is OFF and also a pallet exists on the carrier.

Remedy:

(1) Check each element.

- (2) Check each element. Reset the NC unit, and turn on the [POWER] and [REFERENCE POINT RETURN] keys on the pallet magazine unit made of FUJI ELECTRIC or GIROTER, and restart.

A2061

No.	Name	Level	Reset
2061	CONFIRMATION REACH (SPINDLE)	Warning 3/1	WARN RESET

(Option)

Causes:

- (1) ATC standby check
 - No holder is present in the spindle at unloading.
 - A holder is already present in the spindle at loading.
- (2) A holder clamping is not completed within the specified time.
- (3) Pallet magazine made of FUJI ELECTRIC or GIROTER.
 - A pallet is already present on the machine when executing M600;/ M610; command.
 - No pallet is present on the machine when executing M620; command.
 - A clamping failed when executing M600;/ M620; command.
 - A holder is present in spindle when M810 command is specified (designating L1, non L1).
 - A holder is not present in spindle when M820 command is specified (designating L1).
 - A holder is present in spindle when M820 command is specified(non L1).

Note) For old pallet magazine units, alarm message numbers are not changed, and therefore this message is displayed.

Remedy:

- (1) Check each element.
- (2) As solenoids or limit switches may be defective, please contact us.
- (3) Check each element. Reset the NC unit, and turn on the [POWER] and [REFERENCE POINT RETURN] keys on the pallet magazine unit made of FUJI ELECTRIC or GIROTER, and restart.

A2062

No.	Name	Level	Reset
2062	CONFIRMATION REACH (TABLE)	Warning 3/1	WARN RESET

(Option)

Causes:

- (1) Standby check of pallet magazine with loader axis
 - No pallet is present on the table at unloading.
 - A pallet is already present on the table at loading.
 - When the loading (M620/620) is executed, clamping is failed.
- (2) A table chuck clamping is not completed within the specified time.

Remedy:

- (1) Check each element.
- (2) As solenoids or limit switches may be defective, please contact us.

A2063

No.	Name	Level	Reset
2063	CONFIRMATION REACH (B AXIS)	Warning 3/1	WARN RESET

(Option)

Causes:

- (1) Holder is present in B axis when M810; command is specified (designating L10, L12).
- (2) Holder is not present in B axis when M820; command is specified (designating L10, L12).

Remedy: Recheck each element.

A2064

No.	Name	Level	Reset
2064	CONFIRMATION REACH (ELECTRODE PALLET)	Warning 3	WARN RESET

(Option)

Causes:

- (1) There is no electrode pallet.
- (2) Electrode pallet is not clamped firmly.
- (3) Limit switch is faulty.

Remedy:

- (1) Attach the electrode pallet.
- (2) Check the electrode pallet for clamping condition.
- (3) In case of frequent occurrence, contact us of the trouble procedure.

A2065

No.	Name	Level	Reset
2065	AGC START COND. NOT SATISFIED	Warning 3	WARN RESET

(Option)

Causes: Either of the following AGC starting conditions is not satisfied.

- (1) A certain axis is not at reference point.
- (2) On the ATC unit (optional), for arm magazine type, the magazine retract LS is off, or for arm swivel type, the arm magazine LS is off.
- (3) On the AWC unit (optional), the arm magazine LS is off.
- (4) On the auto electrode guide unit (optional), the arm retracts LS for rough guide is off.
- (5) On the AGC unit, the magazine retract LS is off.
- (6) Work tank is out of position (not at lower limit position).
- (7) Pot number in AGC command is illegal (program error).
- (8) AGC magazine position is improper (it is moving up or down, or output is not fixed).

Remedy: Take corrective action according to the cause, and then restart.

For cause (8), perform recovery operation using the AGC FGR OP/CL key on the AGC screen and the magazine up/down button.

A2066

No.	Name	Level	Reset
2066	AGC POT SENSOR INPUT FAULT.	Warning 3	WARN RESET

(Option)

Description: The pot in AGC magazine does not meet the on-going AGC change sequence.

Causes: At the start or end of AGC change operation, the on-going sequence does not meet the pot in magazine.

- (1) A guide is already present in the target pot when modal guide unloading operation starts.
- (2) A guide is not present in the target pot when modal guide unloading operation ends.
- (3) A guide is not present in the target pot when a loading of the guide specified with S command starts.
- (4) A guide is still present in the pot when a loading of the guide specified with S command in that pot ends.
- (5) At the start of guide change (modal → S command), when modal guide unloading operation starts, the guide specified with S command is not present. (This error occurs when modal guide and the guide specified with S command are present in the same magazine.)

Remedy: Check programmed commands and machine condition, then restart. If programmed commands are inconsistent with the machine condition, press the [RESET] key, and correct the program, then restart.

A2067

No.	Name	Level	Reset
2067	AGC CHUCK SENSOR INPUT FAULT.	Warning 3	WARN RESET

(Option)

Causes: Guide presence condition of B axis (W axis) chuck is inconsistent with AGC operation sequence.

- (1) A guide is already present in B axis (W axis) when modal guide unloading operation starts.
- (2) A guide is not present in B axis (W axis) when modal guide unloading operation ends.
- (3) A guide is not present in B axis (W axis) when a loading of the guide specified with S command starts.
- (4) A guide is still present in B axis (W axis) when a loading of the guide specified with S command in that pot ends.

Remedy: Check programmed commands and machine condition, then restart. If programmed commands are inconsistent with the machine condition, press the [RESET] key, and correct the program, then restart.

A2068

No.	Name	Level	Reset
2068	AGC MAGAZINE LIFTER COND. NOT SATISFIED	Warning 3	WARN RESET

(Option)

Description: AGC arm position is improper when the AGC MGZ UP/DOWN button was pressed.

Causes:

- (1) AGC magazine arm is at the advance position.
- (2) This alarm is given if the AGC MGZ UP/DOWN button is already turned at the power on.
- (3) AGC magazine has stopped erroneously in a midway when the AGC MGZ UP/DOWN is turned on.

Remedy:

- (1) On the AGC screen, retract the AGC magazine arm.
- (2) Check the status of AGC MGZ UP/DOWN button and AGC magazine.
- (3) After confirming safety, open the AGC finger and retry operation.

A2069

No.	Name	Level	Reset
2069	FILTER PRESSURE ERROR	Alarm 2	RESET

(OPTION)

Description: The dielectric fluid filter has reached the end of its service life.

Cause: Clogging of the dielectric fluid filter

Dielectric fluid filter pressure has reached the filter replacement warning pressure (PRM782).

Action: Replace the dielectric fluid filter.

A2070

No.	Name	Level	Reset
2070	CAN NOT INJECTION VALVE ON NOW	Warning 3	WARN RESET

(Option)

Causes: The flushing nozzle is not at upper limit/lower limit position when the M500; is executed.

Remedy: Reset the NC unit, and execute the M660;.

After checking, reset the NC unit and turn on the [POWER] and [REFERENCE POINT RETURN] keys on the POD.

A2071

No.	Name	Level	Reset
2071	THE BATTERY OF THE PROBE IS LOW	Warning 2	WARN RESET

(Option)

Causes: The battery voltage of the measurement probe is low.

Remedy: Replace the battery of the measurement probe.

For a battery replacing method, refer to the instruction manual attached to the measurement probe.

A2072

No.	Name	Level	Reset
2072	PROBE ERROR	Warning 3	WARN RESET

(Option)

Causes: The measurement probe cannot be turned on or it is out of the communication range.

The measurement probe cannot start when this message is displayed.

Remedy: For a probe error resetting method, refer to the instruction manual attached to the measurement probe.

A2075

No.	Name	Level	Reset
2075	CONFIRM ADAPTER SENSOR	Warning 3	WARN RESET

(Option)

Causes: No adapter is present in the spindle at junior holder changing in ATC standby check.

Remedy: Repair the above faulty unit (machine condition/program) and restart.

A2076

No.	Name	Level	Reset
2076	CONFIRM JUNIOR SENSOR	Warning 3	WARN RESET

(Option)

Causes:

(1) ATC standby check

- A junior holder is already present in the spindle at loading.
- No junior holder is present in the spindle at unloading.

(2) Electrode change standby check

- A junior holder is already present in the spindle at unloading.

Remedy: Repair the above faulty unit.

A2077

No.	Name	Level	Reset
2077	DIELECTRIC LEVEL ERROR (DIELECTRIC SUPPLY UNIT)	Warning 3	WARN RESET

Description: Machining fluid in machining fluid supply unit is too low or too high.

Causes: The low machining fluid level detection switch or machining fluid overfilling detection switch in the machining fluid supply unit was activated.

Remedy: (1) If the machining fluid level in the machining fluid supply unit is low, refill with machining fluid.

(2) If the machining fluid level in the machining fluid supply unit is too high, reduce the level of machining fluid by scooping it out manually.

(3) If the machining fluid level is normal, the cause may be a malfunction, failure, broken wire, or other problem in the detection switch, and so please contact MINPULS and explain the problem situation.

A2078

No.	Name	Level	Reset
2078	PLEASE ADD AGAIN AFTER COLLECTING μ SC	Warning 1	WARN RESET

(Option)

Causes: The μ SC cumulative running value reached the tolerance.

Remedy: Collect μ SC in the " μ SC COLLECTION" mode, then add new μ SC.

A2079

No.	Name	Level	Reset
2079	PLEASE COLLECT μ SC AND DROP TO PROPER DENSITY	Warning 1	WARN RESET

(Option)

Causes: The μ SC density is too high and normal discharge machining cannot be executed.

Remedy: Collect μ SC in the " μ SC COLLECTION" mode so as to attain proper density.

A2080

No.	Name	Level	Reset
2080	AT μ SC COLLECTION	Warning 3	WARN RESET

(Option)

Causes:

- (1) The FLUID is turned on during μ SC collection.
- (2) The mode is changed during μ SC collection.
- (3) The μ SC collection is turned on during FLUID on.

Remedy:

- (1) No particular remedy is necessary, except that the μ SC collection is turned off to clear the warning message.
- (2) Perform operation based on the cause.
- (3) No particular remedy is necessary, except that the μ SC collection is turned off to clear the warning message.

A2081

No.	Name	Level	Reset
2081	AT DIELECTRIC DRAIN	Warning 3	WARN RESET

(Option)

Causes:

- (1) This message is displayed while the dielectric fluid is drained for mode change on the TT unit. It disappears at the completion of dielectric drain.
- (2) It is displayed when the [FLUID] key is turned on during dielectric drain.

Remedy:

- (1) No particular remedy is necessary, except that the [WARN RESET] key is pressed to clear the warning message.
- (2) Turn on the [FLUID] key after dielectric drain is finished.

A2082

No.	Name	Level	Reset
2082	IT IS NOT HQSF MODE	Warning 1	WARN RESET

(Option)

Causes: μ SC collection was operated when it is not in HQSF mode.

Remedy: Please change to HQSF mode and try again.

A2083

No.	Name	Level	Reset
2083	A MODE IS CHANGING (HQSF)	Warning 3	WARN RESET

(Option)

Causes: μ SC collection was operated when the mode is changing to HQSF mode or standard machining mode.

Remedy: Please try again after the mode has completely changed to HSQF mode.

A2084

No.	Name	Level	Reset
2084	PLEASE TURN OFF DIELECTRIC	Warning 1	WARN RESET

(Option)

Causes: The front door of work tank was operated when the Fluid was ON.

Remedy: Please turn off the Fluid and operate front door of work tank again.

A2085

No.	Name	Level	Reset
2085	PLEASE DRAIN OFF DIELECTRIC	Warning 1	WARN RESET

(Option)

Causes: When the front door of work tank is lowered, the operation cannot be performed as the Fluid level is high. (Fluid level is higher than lower limit float switch)

Remedy: Please drain the dielectric until it is lower than the lower limit float switch and try again.

A2086

No.	Name	Level	Reset
2086	PLEASE CLOS SMALL DOOR	Warning 3	WARN RESET

Description: An operation prohibited while the small door is open was performed.

Causes: A filling operation was performed while the small door was open.

Remedy: Close the small door, and perform the operation again.

A2087

No.	Name	Level	Reset
2087	THE COMMANDED POSITION IS LOWER THAN THE FLUID-ON POSSIBLE POSITION.	Alarm 2	RESET

Description: The movement in the work tank to the position in which a working fluid on was not able to be done was instructed in.

Remedy: Please make the height of the instruction of the movement in the work tank height to be able to do a working fluid on.

A2089

No.	Name	Level	Reset
2089	ILLEGAL PRESSURE VALUE SET(RANGE OUT)	Warning 3	WARN RESET

(Option)

Description: Discharge pressure setting of high pressure blow is too large.

Causes: Setting of set data No.750 "PRESSURE VALUE (0)" to No.757 "PRESSURE VALUE (7)" is out of the range (over the setting of machine parameter No.760 "PRESSURE MAX RANGE".

Remedy: Change the parameters concerned.

A2090

No.	Name	Level	Reset
2090	CLEAN TANK FLOW SEQUENCE TIME OUT ERROR	Warning 1/3	WARN RESET

(Option)

Causes: Dielectric fluid feed to a clean tank of high pressure blow unit was not completed within the specified time.

The fluid level in clean tank did not reach the specified level (tank lower limit) though about 10 seconds elapsed after clean tank filling started.

Remedy: After checking for fluid leakage, turn on the [FLUID] key.

A2093

No.	Name	Level	Reset
2093	LEVEL DOWN DETECTED AT HIGH PRESSURE SWITCH	Warning 3	WARN RESET

(Option)

Causes: If high pressure dropped during high pressure injection

(1) If high pressure is not detected in 3 seconds after the high pressure valve was turned on.

(2) If the high pressure switch is turned off during high pressure injection.

Remedy: Turn on the [FLUID] key, then again turn on the high flush.

A2094

No.	Name	Level	Reset
2094	LEVEL DOWN DETECTED AT LOW PRESSURE SWITCH	Warning 3	WARN RESET

(Option)

Causes:

(1) The low pressure dropped during rise of low pressure after the low pressure valve was turned on.

(2) Low pressure fluid injection valve turned off while it is operating.

Remedy: Turn on the [FLUID] key, then again turn on the low flush.

A2095

No.	Name	Level	Reset
2095	ELECT. VALVE START COND. NOT SATISFIED	Warning 3	WARN RESET

(Option)

Causes:

- (1) The pressure switch failure was detected during the electrode injection on operation. (The pressure is detected though both low and high pressure valve are in off status.)
- (2) The warning is caused by the restart when the machining was stopped by the high pressure drop during high pressure injection (the warning notifies that the high pressure injection is in stop status by alarm).
- (3) A machining program was executed while high/low pressure fluid injection valve is starting up or it stopped due to pressure reduction alarm.

Remedy: Turn on the [FLUID] key, then again turn on the high/low pressure fluid.

A2096

No.	Name	Level	Reset
2096	CLEAN TANK NO CONNECT	Warning 3	WARN RESET

(Option)

Causes: Both upper and lower limit float switches in a clean tank of high pressure blow unit are turned off.

Remedy: If this warning occurs frequently, please contact us.

A2097

No.	Name	Level	Reset
2097	STOP OF SPINDLE ROTATION	Warning 3	WARN RESET

(Option)

Causes: The high pressure injection is turned on while the electrode on MA/MR head is rotating.

Remedy: In turning on the high pressure blow unit, stop electrode rotation.

A2098

No.	Name	Level	Reset
2098	ELECT. VALVE SEQUENCE ACTIVATED	Warning 3	WARN RESET

(Option)

Causes:

- (1) The holder was unclamp during operation of high pressure injection valve (the valve pressure is detected).
- (2) The spindle chuck was unclamped while the fluid injection valve is operating.

Remedy:

- (1) In unclamping the holder, turn off the high pressure blow valve.
- (2) Retry after making sure that high pressure fluid injection turned off.

A2099

No.	Name	Level	Reset
2099	SEAL PRESSURE MALFUNCTION	Warning 3	WARN RESET

(Option)

Description: The seal pressure is in alarm status when the BLOW is turned on or off, or during blow operation.

- (1) Seal pressure alarm was detected when the BLOW is turned on.
- (2) Seal pressure alarm was detected 8 seconds after the controller waited for seal pressure ON during BLOW ON.
- (3) The status other than seal ON was detected after completion of seal ON.
- (4) Seal OFF was not detected when the holder was unclamped manually.
- (5) Seal OFF was not detected when the holder was unclamped automatically during ATC operation.

Causes: Main air pressure is low or adjustment of detection LS is faulty.

Remedy: Turn on the [FLUID] key, then again turn on the blow unit.

A2100

No.	Name	Level	Reset
2100	PUMP IS STOPPING([PUMP OFF] ON)	Warning3	WARN RESET

Causes: Turn on the [Pump off] button of the Others: Machine Control screen.

Remedy: Check the above points.

A2101

No.	Name	Level	Reset
2101	ELECTRODE TOUCH	Alarm 2	RESET

Causes: In G00 command positioning block (except M19) and manual operation (except TOUCH mode-Sensing TOUCH), the work piece has come in contact with the electrode.

Remedy: Checking the situation for safety (also for the electrode and work piece), separate those by manual control (by pushing on of [INTERRUPT] in the portable operation panel).

Note) Be sure to turn off [INTERRUPT] after releasing ALARM.

A2102

No.	Name	Level	Reset
2102	MACHINING ERROR	Alarm 2	RESET

Causes: Continuous block machining or fine machining block operation.

Remedy: Restart the machining after resetting. If it happens frequently, EIS card is suspected faulty. In case of frequent occurrence, contact us of the trouble procedure.

A2103

No.	Name	Level	Reset
2103	TOUCH ERROR	Alarm 2	RESET

Causes: In touch sensing operation, an abnormal interruption occurred. (On the EIS card)

Remedy: Restart the touch sensing operation.

A2106

No.	Name	Level	Reset
2106	BACK LENGTH OVER AT MC (Z AXIS)	Warning 3	RESET

Causes: The alarm occurred because the draw-back amount of the Z axis, which caused by an inter- polarity short (arc develops) during machining exceeded the set value of the parameter No.610 "BACK LENGTH SET AT MC".

Note) When an inter-polarity fault such as ark may cause the Z axis to draw back too much, electric discharge in the air sometimes starts a fire. The function serves to prevent such a fire.

Remedy: Remove the cause of arc or shorts by applying retract operation and start machining again.

A2107

No.	Name	Level	Reset
2107	WIRE IS DISCONNECTED. (MANUAL WIRE FEED)	Warning3	WARN RESET

(Option)

Description: Wire start to run by manual switch and it take 5 seconds. But wire is still not connected.

[EIO Grp No.3B Bit 4: *WIRE BRK (1=Wire is connected, 0=wire is disconnected)]

Causes:

(1) Wire is not connected.

(2) The confirmation switch of wire connecting may be defective.

Remedy: The wire connecting switch is suspected faulty. Start to run wire again.

In case of frequent occurrence even if wire is connected, please contact us and tell the trouble procedure.

A2108

No.	Name	Level	Reset
2108	WIRE IS DISCONNECTED. (AUTO WIRE FEED)	Warning 3	WARN RESET

(Option)

Description: Wire start to run with program (G134E1) and it take 3 seconds. But wire is still not connected.

[EIO Grp No.3B Bit 4: *WIRE BRK (1=Wire is connected, 0=wire is disconnected)]

Causes:

(1) Wire is not connected.

(2) The confirmation switch of wire connecting may be defective.

Remedy: The wire connecting switch is suspected faulty. Start to run wire again.

In case of frequent occurrence even if wire is connected, please contact us and tell the trouble procedure.

A2110

No.	Name	Level	Reset
2110	ADDITI. AXIS COOLING IMPOSSIBLE BY DIEL. OFF	Alarm 2	RESET

(Option)

Causes: When additional axis requiring cooling is in active state, the FLUID was switched off. (Generally, removable units such as C axis - option.)

Remedy: Turn on the [FLUID] key.

A2111

No.	Name	Level	Reset
2111	PRESSURE DOES NOT INCREASE (GREASE SUPPLY UNIT)	Warning 1	See Remedy

(Option)

Description: In the pressurizing processing, the pressure switch did not turn on.

(GREASE_PRES_SW [GRP: 3B bit2])

Causes:

(1) Pressure switch is faulty.

(2) Pressure increment time limit is short.

Remedy: To reset the message, press [Warning Reset] button on the Grease Cartridge Replacement view of Preparation screen.

If the resetting failed, please contact us..

A2112

No.	Name	Level	Reset
2112	PRESSURE DOES NOT DECREASE (GREASE SUPPLY UNIT)	Warning 1	See Remedy

(Option)

Description: In the pressure reducing processing, the pressure switch did not turn off.

(GREASE_PRES_SW [GRP: 3B bit2])

Causes: Pressure switch is faulty.

Remedy: To reset the message, press [Warning Reset] button on the Grease Cartridge Replacement view of Preparation screen.

If the resetting failed, please contact us.

A2113

No.	Name	Level	Reset
2113	CARTRIDGE EXCHANGE PERIOD (GREASE SUPPLY UNIT)	Warning 1	See Remedy

(Option)

Description: The grease was supplied until the maximum supply frequency.

Causes: The grease was supplied until the frequency set to the parameter No.788.

Remedy: Change the grease cartridge and press the [Supply Reset] button on the Grease Cartridge Replacement view of Preparation screen.

A2114

No.	Name	Level	Reset
2114	AT INITIAL FILLING MODE (GREASE SUPPLY UNIT)	Warning 1	See Remedy

(Option)

Description: The grease supply mode is the Initial Filling mode.

Causes: The [Initial Filling] button was turned on.

Remedy: To terminate the Initial Filling mode, turn off the [Initial Filling] button on the Grease Cartridge Replacement view of Preparation screen.

A2115

No.	Name	Level	Reset
2115	AIR PRESSURE LOW (SL UNIT)	Warning 3	WARN RESET

(Option)

Causes: An air pressure detection limit switch sending air to the SL smoke less) machining unit.

Remedy:

- (1) Check the feeding air pressure.
 - (2) When the air pressure is normal, trouble, malfunction or disconnection of the limit switch is suspected.
- In case of frequent occurrence, contact us of the trouble procedure.

A2116

No.	Name	Level	Reset
2116	FLUID IS NOT ENOUGH (DIELECTRIC SUPPLY UNIT)	Warning 3	WARN RESET

(Option)

Causes: The surface level detection limit switch went into action for the continuous path control system dielectric supply unit.

Remedy: [Oil specification machine]

Check whether the dielectric surface level of the dielectric supply unit is below the pump suction hole, even if the work tank is full of the dielectric.

[BX3(Water specification machine)]

In the state where the working fluid is completely returned to the bed tank without supplying the fluid to the work tank, check the fluid level.

EIO Grp No.9D Bit2 BED-TANK-FLOAT

[Common]

When the dielectric measurement is normal, the trouble, malfunction or disconnection of the limit switch is suspected.

In case of frequent occurrence, contact us of the trouble procedure.

A2117

No.	Name	Level	Reset
2117	WIRE IS DSCONNECTED. CONNECT WIRE AND START WIRE FEED BY MANUAL.	Warning 3	WARN RESET

(Option)

Causes: A wire on the wire discharge attachment (option) was broken during machining.

Remedy: Thread the wire again.

A2118

No.	Name	Level	Reset
2118	ATC COVER OPEN OR MANUAL INTERRUPTION SW ON	Alarm 2	RESET
		Warning 3	WARN RESET
		Warning 2	WARN RESET

(Option)

Causes:

- (1) A protection cover was opened during ATC (during magazine indexing).
- (2) With the protection cover left open, ATC was started.
Or, the protection cover was opened during ATC (Except during magazine indexing).
- (3) The protection cover was opened or the INTERRUPT button was turned on during a loading or unloading operation.

Remedy:

- (1) Press the RESET key, and return manually the ATC unit to the standby status (Restarting is impossible).
- (2) Close the protection cover or turn off the INTERRUPT button, and the message will disappear.
- (3) Press the WARN RESET key, close the protection cover, and restart operation.

A2119

No.	Name	Level	Reset
2119	AWC COVER OPEN	Alarm 1	RESET

(Option)

Causes: AWC cover is opened during AWC operation.

Remedy: Press the [RESET] key and close the AWC cover.

Since the AWC operation is interrupted, return it manually to the standby status.

A2120

No.	Name	Level	Reset
2120	AWC START COND. NOT SATISFIED	Warning 3	WARN RESET

(Option)

Causes: The following starting conditions are not satisfied:

- (1) X, Y axes at the reference point
- (2) Work tank at the lower limit position
- (3) Arm retract LS on, Arm advance LS off
- (4) Arm CW LS on, Arm CCW LS off
- (5) Arm BCK LS on, Arm FDW LS off
- (6) AWC cover LS off
- (7) Work piece present in magazine pot and also work piece not present in table chuck at the time of loading
- (8) Work piece not present in magazine pot and also work piece present in table chuck at the time of unloading

Remedy: Recheck respective elements.

A2121

No.	Name	Level	Reset
2121	EXHAUST LOW	Warning 3	WARN RESET

(CE machine)

Causes: An attempt to execute machining was made, though the fan to discharge forcibly the exhaust gas has stopped or it stopped during machining.

Remedy: Confirm that the exhaust fan is running. If a machining is to be continued, rotate the exhaust fan, then restart operation.

A2122

No.	Name	Level	Reset
2122	SAFETY GUARD OPEN	See Remedy	WARN RESET

(CE machine)

Description: The safety guard is open.(EIO group No.37 bit7 *GRUD-CLS=0)

(1) If the safety guard in closed status is opened → By this warning message, the operation stops (warning 3) and also the machining power is turned off.

(2) If an operation that is invalid during open safety guard was attempted when the safety guard is open → This warning is displayed (warning 1), and that operation is not executed.

Invalid operation during open safety guard

1) [START] key

2) [RETRACT] / [RETURN] keys

3) Function keys

4) FLUID on

Causes: Safety measures (inhibited machining power on, inhibited starting of automatic operation).

Remedy:

(1) When the safety guard is open, execute only the necessary operation, while taking care of the following consideration.

In the MAN RUN mode, the axis moves during the time that the jog keys such as [±X], [±Y] keys and [±Z] keys on portable operation panel are pressed. In such a case, take care not to have your body, cloth, or a tool pinched. Release the key when you feel danger.

(2) After closing the safety guard, execute only the necessary operation.

A2123

No.	Name	Level	Reset
2123	MOVE POT DOWN	Warning 3	WARN RESET

(Option)

Causes: The pot was at the up position when the arm moves.

Remedy: Move the pot down. Then, move the arm.

A2124

No.	Name	Level	Reset
2124	RETURN THE ARM TO THE STANDBY POSITION	Warning 3	WARN RESET

(Option)

Causes: The pot up/down key was turned on with an electrode present in the pot when the arm is not at the standby position.

Remedy: Return the arm to the standby position, then move the pot up/down.

The pot can be moved up/down with no electrode present in the pot, whichever position the arm exists.

A2125

No.	Name	Level	Reset
2125	EXISTENCE OF TOOL IN THE SELECTED POT	Warning 3	WARN RESET

(Option)

Causes: Standby check.

At the unloading, an electrode is present in the selected pot.

Remedy: Remove the electrode from the pot, then restart operation.

A2126

No.	Name	Level	Reset
2126	NON-EXISTENCE OF TOOL IN THE SELECTED POT	Warning 3	WARN RESET

(Option)

Causes: Standby check.

At the loading, an electrode is not present in the selected pot.

Remedy: Put the electrode from the pot, and then restart operation.

A2127

No.	Name	Level	Reset
2127	NO ELECTRODE ON SPINDLE CHUCK	Warning 3	WARN RESET

(Option)

Causes: In the ATC replacement, a command was specified to return the electrode from the spindle to the magazine, but the electrode is not mounted on the spindle.

Remedy:

- (1) Check for the ATC replacement program
- (2) Mount the electrode on the spindle and execute the program again.
- (3) If the problem cannot be solved in the above steps, report the details of the current problem to our company.

A2128

No.	Name	Level	Reset
2128	THERE IS ELECTRODE ON SPINDLE CHUCK	Warning 3	WARN RESET

(Option)

Causes: In the ATC replacement, a command was specified to mount the electrode on the spindle from the magazine, but other electrode is already mounted on the spindle.

Remedy:

- (1) Check for the ATC replacement program
- (2) Remove the electrode from the spindle and execute the program again
- (3) If the problem cannot be solved in the above steps, report the details of the current problems to our company.

A2130

No.	Name	Level	Reset
2130	MOVEMENT COMMAND AGAINST ILLEGAL AXIS	Alarm 2	RESET

Causes: A movement command was specified to invalid axis.

Remedy: Change the mode for that axis.

A2131 A2138

No.	Name	Level	Reset
2131	1 AXIS MODE CHANGE IMPOSSIBLE	Alarm 2	RESET
2132	2 AXIS MODE CHANGE IMPOSSIBLE	Alarm 2	RESET
2133	3 AXIS MODE CHANGE IMPOSSIBLE	Alarm 2	RESET
2134	4 AXIS MODE CHANGE IMPOSSIBLE	Alarm 2	RESET
2135	5 AXIS MODE CHANGE IMPOSSIBLE	Alarm 2	RESET
2136	6 AXIS MODE CHANGE IMPOSSIBLE	Alarm 2	RESET
2137	7 AXIS MODE CHANGE IMPOSSIBLE	Alarm 2	RESET
2138	8 AXIS MODE CHANGE IMPOSSIBLE	Alarm 2	RESET

Causes: The mode change is inhibited under the following condition.

- (1) Machine lock
- (2) Over travel
- (3) Special interpolation mode

Remedy: Remove a cause that disables the mode change.

A2140

No.	Name	Level	Reset
2140	INDAX ILLEGAL PARAMETER	Warning 1	WARN RESET

(Option)

Causes: The independent axis (loader axis) parameter has not been set when the magazine is indexed.

Remedy: Check the parameter No.0521 "INDEPENDENT AXIS Q'TY" setting.

A2150

No.	Name	Level	Reset
2150	PROTECTION SENSOR ON (MIDDLE GUIDE)	Warning 3	WARN RESET

(Option)

Description: During the operation of down the W axis or up the work tank, ON of the middle guide protection sensor was detected.

Causes: The middle guide dielectric fluid LS (EIO No.13 bit No.2 *MG-FLT-SW) turned on.

Remedy: In the event of this alarm during the machining, move down the work tank and turn on the [FLUID] key again to make sure that the machining part of the work piece is submerged completely in the dielectric fluid, then continue the operation. Also for other cases, lower the work tank or raise the W axis to make recovery.

A2151

No.	Name	Level	Reset
2151	UPPER GUIDE TIME OUT (MIDDLE GUIDE)	Warning 3	WARN RESET

(Option)

Description: The electrode loading during automatic operation, or the upper guide open/close (advance/return) operation of the middle guide during the machining did not complete within the specified time (60 sec).

Causes: The upper guide control cylinder of the upper guide, or the upper guide open LS or upper guide close LS will be faulty.

A2152

No.	Name	Level	Reset
2152	LOWER GUIDE TIME OUT (MIDDLE GUIDE)	Warning 3	WARN RESET

(Option)

Description: The electrode loading during automatic operation, or the lower guide open/close (advance/return) operation of the middle guide during the machining did not complete within the specified time (60 sec).

Causes: The upper guide control cylinder of the lower guide or the lower guide open LS or lower guide close LS will be faulty.

A2153

No.	Name	Level	Reset
2153	GUIDE UP/DOWN TIME OUT (MIDDLE GUIDE)	Warning 3	WARN RESET

(Option)

Description: In the electrode inserting operation during automatic operation, the middle guide up/down control did not complete within the specified time (60 sec).

Causes: The upper/lower guide control cylinder of the middle guide, or the middle guide open LS or lower guide close LS will be faulty.

A2154

No.	Name	Level	Reset
2154	MAN. OPERAT INTERLOCK DETECT(MIDDLE GUIDE)	Warning 3/2	WARN RESET

(Option)

Description: This message is displayed when the interlock condition between upper/lower guide status and manual operation is detected.

Causes:

- (1) The interlock condition was detected in the middle guide unit during manual operation.
- (2) The interlock condition was detected in the middle guide unit when the MDI RUN or MEM RUN mode was changed to MAN RUN mode and manual interruption operation was performed.
- (3) The interlock condition was detected in the middle guide unit when the one-touch function "MACHINE ", "WORK ", or "ATC POS" on the Portable operation panel was specified in the manual operation.

Remedy:

- (1), (2) Move the Z-axis in "-" direction or the W axis in "+" direction by manual operation, taking extreme care of the interference between guide and electrode holder leading edge.
- (3) Release the middle guide manually with the release operation on MIDDLE GUIDE

A2155

No.	Name	Level	Reset
2155	WORK TANK MOVING UP PROHIBITED	Warning 3/2	WARN RESET

(Option)

Causes: The work tank up operation was executed while the middle guide protection sensor is operating.

Remedy: Lower the work tank or raise the W axis until the middle guide protection sensor is turned off.

A2156

No.	Name	Level	Reset
2156	DIELECTRIC ON PROHIBITED	Warning 3/2/1	WARN RESET

(Option)

Causes: The FLUID key was turned on while the middle guide protection sensor is operating.

Remedy: Lower the work tank or raise the W axis until the middle guide protection sensor is turned off, then turn on the FLUID.

A2157

No.	Name	Level	Reset
2157	-Z/+W JOG OPERATEION IS IMPOSSIBLE WHEN GUIDE ARM IS AT UP POSITION	Warning 2	WARN RESET

(Option)

Causes: In the manual operation, the guide arm of the middle guide unit is in the upper limit position.

When the guide arm is in the upper limit position, the -Z/+W jog feed is prohibited because of the machine structural reason.

Remedy: To move the Z/W axis manually, move the guide arm to the lower limit position.

A2158

No.	Name	Level	Reset
2158	-Z/+W JOG OPERATEION IS IMPOSSIBLE WHEN GUIDE STATUS IS CLAMP AT UP POSITION	Warning 2	WARN RESET

(Option)

Causes: In the manual operation, the guide of the middle guide unit was clamped and also the prohibited axis feed speed was selected.

In this case, the -Z/+W jog feed is prohibited to prevent interference between spindle and guide.

Remedy: With the guide clamped, to move the Z/W axis manually, select safety axis feed speed with the portable operation panel.

Prohibited axis feed speed when the guide is clamped: HIGH / RAPID (standard).

This setting can be changed with the parameter.

A2159

No.	Name	Level	Reset
2159	Z AXIS WILL DESCEND DURING ZERO RETURN. PLEASE MAKE SURE THERE IS NO OBSTACLE IN ITS PATH.	Warning 3	WARN RESET

Causes: The operation stops to confirm safety before the Z axis moves down in the zero return operation.

Remedy: After making sure that no axis interferers, press the START key.

A2160

No.	Name	Level	Reset
2160	W AXIS WILL DESCEND DURING ZERO RETURN. PLEASE MAKE SURE THERE IS NO OBSTACLE IN ITS PATH.	Warning 3	WARN RESET

(Option)

Causes: The operation stops to confirm safety before the W axis moves down in the zero return operation.

Remedy: After making sure that no axis interferers, press the START key.

A2161

No.	Name	Level	Reset
2161	B AXIS WILL MOVE DURING ZRN. PLEASE MAKE SURE THERE IS NO OBSTACLE IN ITS PATH	Warning 3	WARN RESET

(Option)

Causes: The operation stops to confirm safety before the B axis moves in the zero return operation.

Remedy: After making sure that no axis interferers, press the START key.

A2162

No.	Name	Level	Reset
2162	A AXIS WILL MOVE DURING ZRN. PLEASE MAKE SURE THERE IS NO OBSTACLE IN ITS PATH.	Warning 3	WARN RESET

(Option)

Causes: The operation stops to confirm safety before the A axis moves in the zero return operation.

Remedy: After making sure that no axis interferers, press the START key.

A2167

No.	Name	Level	Reset
2167	ATC ZERO RETURN PROHIBITED	Warning 1/3	WARN RESET

Description: Machine that prohibited ATC Zero Return was made to perform Zero Return.

Remedy: Operation reconfirmation.

A2168

No.	Name	Level	Reset
2168	ATC IS INVALID WHEN [5TH AXIS EFFECTIVE] BUTTON IS ON.	Alarm 2	RESET

(Option)

Causes: In models with the EDAF2/3 and EDFH1 fine hole specifications, the normal ATC command (G131) is performed while the W-axis holder is installed.

Remedy: Uninstall the W-axis holder, turn off the [5th Axis Effective] button, and then operate a normal ATC command.

A2170

No.	Name	Level	Reset
2170	RIB HEAD (W AXIS) OPERATION IS PROHIBITED. PLEASE CHECK Z PLATE	Warning 1	WARN RESET

(Option)

Description: In the machine equipped with Rib head, there was a jig on Z axis face plate, and the [Rib head] switch (NC FUNC SCREEN) was turned on in the state when Rib head cannot be operated.

Remedy: Remove objects from Z axis face plate so that Rib head can be operated.

Related EIO: Grp No.BD [ILK-W] Rib head interlock (0: Rib head operation not allowed)

A2172

No.	Name	Level	Reset
2172	FLOW RATE ERROR DURING HIGH PRESSURE FLUSHING	Alarm 2	RESET

Description: After the high pressure flushing was turned on, the time when the specified flow rate was outside the tolerance range lasted about 3 minutes.

Action: (1) If the above event occurred during machining, change to the proper machining conditions.
(2) Change to a properly specified flow rate, and turn on the high pressure flushing.

A2173

No.	Name	Level	Reset
2173	FLOW RATE CHECK ERROR	Warning 2	RESET

Description: Flow rate monitoring cannot be started.

Action: Let us know information about occurrence of the trouble.

A2174

No.	Name	Level	Reset
2174	INVALID COMMAND OF FLOW RATE OF HIGH PRESSURE FLUSHING	Warning 2	RESET

Description: Flow rate of high pressure flushing was specified.

Action: Check the program.

A2180

No.	Name	Level	Reset
2180	EXT. STROKE ON ([EXT. STROKE] BUTTON ON)	Warning 3	See Remedy

Causes: [EXT. STROKE (WORK SET)] button is on.

Remedy: Check the above points.

A2218

No.	Name	Level	Reset
2218	RESET MACRO PROCESS TIME OUT	Warning 1	WARN RESET

Causes: The reset macro processing is not completed within the definite time (standard 60 seconds).

Remedy: In case of frequent occurrence, contact to us for repair.

A2220

No.	Name	Level	Reset
2220	STOP MACRO PROCESS TIME OUT	Warning 2	WARN RESET

Causes: The stop macro processing did not complete within the specified time (at least 1 minute).

Remedy: The stop processing did not complete successfully. Be careful when restarting.

A2221

No.	Name	Level	Reset
2221	INTERLOCK DEVICE (SAFETY GUARD etc.) IS WORKING	Warning 3	WARN RESET

Description: Interlock device is being operated (alarm state).

Interlock device refers to all the safety protective devices such as safety covers, safety sensors, READY key, etc.

EIO Grp No.37 Bit 6 “*INTERLOCK-ALM”

Note1) While an interlock device is being operated, the message cannot be cleared with the [RESET] or [WARN RESET] key. Also note that the automatic operation is disabled.

Note2) Depending on the interlock conditions, the message can also be cleared and automatic operation is possible.

A2222

No.	Name	Level	Reset
2222	THE POSITIONING OF Z AND W-AXIS IS IMPOSSIBLE AT THE SAME TIME.	Warning 2	WARN RESET

(Option)

Description: In machines with a W-axis(*), movement commands were set for both the Z-axis and W-axis, and operation was started while the Positioning screen [ZW Sync] button was turned on.

*Machines with fine hole machining specifications

Remedy: When the [ZW Sync] button is turned on, movement commands can only be issued for either the Z-axis or W-axis only. Clear the movement command for either the Z-axis or W-axis, and then start operation. To move both axes simultaneously, turn off the [ZW Sync] button, and start operation.

A2223

No.	Name	Level	Reset
2223	BY THE PARAMETER, THEY ARE A MAXIMUM OF 3 NUMBERS OF SIMULTANEOUS VALVE ON	Warning 1	WARN RESET

(Option)

Causes: The number of simultaneous valves ON is up to the value set by PRM 670 [Number of Simultaneous 10 Valve ON].

A2229

No.	Name	Level	Reset
2229	PLEASE CHANGE TO ROTATION MODE (ROTARY AXIS)	Warning 2	WARN RESET

(Option)

Causes: An attempt was made to start rotation in a mode other than the rotation mode.

Remedy: Switch to the rotation mode, and perform the operation again.

A2230

No.	Name	Level	Reset
2230	ROBOT IS ACCESSING TO MACHINE AREA (AXIS MOVING PROHIBITION)	Warning 3	WARN RESET

(Option)

Causes: Conveyor is accessing the machine. At this time, the following operation is not possible. (Prohibited operation)

- Axes Movement
- Work Tank UP (Manual /FPB/ Automatic/M58)
- Access Door Close (Manual/Automatic)

Remedy: Please move the conveyor outside the machine area.

A2231

No.	Name	Level	Reset
2231	ROBOT IS CHANGING ELECTRODE OR WORK PIECE	Warning 3	WARN RESET

(Option)

Causes: The following operation was performed when conveyor is changing electrode or work piece,

- Manual Chuck Clamp/Unclamp operation
- Manual Access Door Open/Close operation

Remedy: Please proceed with the operation after Exchange.

A2232

No.	Name	Level	Reset
2232	PLEASE CLAMP SPINDLE CHUCK	Alarm 2	RESET

(Option)

Causes: Electrode/ Work Exchange Standby M Code was performed when spindle chuck in unclamp state.

Remedy: Please run the M code again after clamping the spindle chuck in manual mode.

A2233

No.	Name	Level	Reset
2233	PLEASE CLAMP TABLE CHUCK	Alarm 2	RESET

(Option)

Causes: Electrode/Work Exchange Standby M Code was performed when table chuck in unclamp state.

Remedy: Please run the M code again after clamping the table chuck in manual mode.

A2234

No.	Name	Level	Reset
2234	PLEASE CLOSE ACCESS DOOR	Alarm 2	RESET

(Option)

Causes: Electrode/Work Exchange Standby M Code or Changing program was performed when access door in open state.

Remedy: Please execute command again after closing access door.

A2235

No.	Name	Level	Reset
2235	PLEASE MOVE X AXIS IN + DIRECTION	Warning 1	WARN RESET

(Option)

Causes: The axis is not in a safe position when the ARM ADVANCE/RETRACT button was pressed on the Machine Control: ATC screen.

Remedy: Move the X axis in + direction to a safe position and retry the operation.

A2236

No.	Name	Level	Reset
2236	PLEASE MOVE X AXIS IN - DIRECTION	Warning 1	WARN RESET

(Option)

Causes: The axis is not in a safe position when the ARM ADVANCE/RETRACT button was pressed on the Machine Control: ATC screen.

Remedy: Move X axis in – direction to a safe position and retry the operation.

A2237

No.	Name	Level	Reset
2237	PLEASE MOVE Y AXIS IN + DIRECTION	Warning 1	WARN RESET

(Option)

Causes: The axis is not in a safe position when the ARM ADVANCE/RETRACT button was pressed on the Machine Control: ATC screen.

Remedy: Move Y axis in + direction to a safe position and retry the operation.

A2238

No.	Name	Level	Reset
2238	PLEASE MOVE Y AXIS IN - DIRECTION	Warning 1	WARN RESET

(Option)

Causes: The axis is not in a safe position when the ARM ADVANCE/RETRACT button was pressed on the Machine Control: ATC screen.

Remedy: Move Y axis in – direction to a safe position and retry the operation.

A2239

No.	Name	Level	Reset
2239	SHIFTER POSITION IS NOT CORRECT	Warning 1	WARN RESET

(Option)

Causes: SHIFTER CLAMP /UNCLAMP button was pressed when the shifter is not in advance or retract position

Remedy: Advance or retract the shifter from Machine Control: ATC screen and retry the operation.

A2240

No.	Name	Level	Reset
2240	PLEASE RETRACT SHIFTER FINGER	Warning 3/1	WARN RESET

(Option)

Causes: ATC manual operation or ATC automatic operation was performed when the shifter is in advance position.

Remedy: Retract the shifter from Machine Control: ATC screen and retry the operation.

A2241

No.	Name	Level	Reset
2241	PLEASE UNCLAMP SHIFTER FINGER	Warning 3/1	WARN RESET

(Option)

Causes: ATC manual operation or ATC automatic operation was performed when the shifter is in clamped state.

Remedy: Unclamp the shifter from Machine Control: ATC screen and retry the operation.

A2242

No.	Name	Level	Reset
2242	NO ELECTRODE IN MAGAZINE POT	Warning 3	WARN RESET

(Option)

Causes:

- (1) Electrode is not present in the index pot when the electrode from magazine is about to be loaded into the spindle during ATC operation.
- (2) Error occurs after the electrode is stored to the magazine from the spindle during ATC operation.

Remedy:

- (1) Place electrode into the magazine pot. If the alarm recurs, the tool detection sensor may be faulty.
- (2) Check the electrode storage condition. If it is stored normally, the tool detection sensor may be faulty.

A2243

No.	Name	Level	Reset
2243	THERE IS ELECTRODE IN MAGAZINE POT	Warning 3	WARN RESET

(Option)

Causes: Electrode is already present in the target magazine pot when the spindle is about to store the electrode in the magazine during ATC operation.

Remedy: Remove the electrode from the target magazine pot.

A2244

No.	Name	Level	Reset
2244	PLEASE ADVANCE GRIPPER	Warning 1	WARN RESET

(Option)

Causes: ATC operation was performed when the gripper is in retract position.

Remedy: Advance the gripper from Machine Control: ATC screen, and retry the operation.

A2245

No.	Name	Level	Reset
2245	ARM POSITION IS NOT UP	Warning 3/1	WARN RESET

(Option)

Causes: ATC manual operation or ATC automatic operation was performed when the arm is not up.

Remedy: Move the arm until the upper limit position from Machine Control: ATC screen and retry the operation.

A2246

No.	Name	Level	Reset
2246	PLEASE TURN ARM TO MAGAZINE SIDE	Warning 3/1	WARN RESET

(Option)

Causes: ATC manual operation or ATC automatic operation was performed when the arm is not in the magazine side.

Remedy: Turn the arm to the magazine side from Machine Control: ATC screen and retry the operation.

A2247

No.	Name	Level	Reset
2247	PLEASE TURN ARM TO SPINDLE SIDE	Warning 3/1	WARN RESET

(Option)

Causes: ATC manual operation or ATC automatic operation was performed when the arm is not in the spindle side.

Remedy: Turn the arm to the spindle side from Machine Control: ATC screen and retry the operation.

A2248

No.	Name	Level	Reset
2248	WORK TANK STOP POSITION IS NOT CORRECT	Warning 3	WARN RESET

(Option)

Description: The encoder value is different when the work tank is returned to the previous position after ATC exchange.

Causes: There is a fault in work tank motor or encoder.

Remedy: Replace the work tank motor or encoder.

A2249

No.	Name	Level	Reset
2249	ATC IS EXECUTING	Warning 1	WARN RESET

(Option)

Causes: The work tank was moved with the Tank Up/Down switch on FPB or FPB custom keys during the tool exchange.

Remedy: Please try the operation again after the tool exchange.

A2250

No.	Name	Level	Reset
2250	PLEASE RETURN THE ARM OR MAGAZINE	Warning 3/1	WARN RESET

(Option)

Causes: The Work tank was made to rise when the arm or magazine advanced.

** The operation object: The ATC, the pallet magazine (P/M), the pallet changer (P/C)

Remedy: The Limit switch is suspected to be faulty. Contact to us for repair.

A2251

No.	Name	Level	Reset
2251	PLEASE RETURN GRIPPER'S ARM	Warning 3/1	WARN RESET

(Option)

Causes: The Work tank was made to rise when the gripper-arm advanced.

Remedy: Please operate after returning the gripper-arm back.

A2252

No.	Name	Level	Reset
2252	PLEASE LOWER THE WORK TANK	Warning 1	WARN RESET

(Option)

Causes:

- (1) The arm (The magazine) was advanced or retracted manually at the height position of the Work Tank where it cannot advance or retract.
- (2) The arm was revolved manually at the height position of the Work tank where it cannot revolve.

Remedy: Please lower the Work tank to the position where the arm can advance or retract, and revolve.

A2253

No.	Name	Level	Reset
2253	MAGAZINE IS DISTRIBUTING NOW	Warning 1	WARN RESET

(Option)

Causes: The arm was advanced or retracted manually when the magazine was working.

Remedy: Please operate after stopping the magazine.

A2254

No.	Name	Level	Reset
2254	POSITION OF ARM REVOLUTION IS NOT CORRECT	Warning 1	WARN RESET

(Option)

Causes: It tried to advance or retract the arm manually. But the arm revolving position is not in the right position (the side of the magazine or the spindle axis).

Remedy: Please operate after moving the arm revolving position to the right position.

A2255

No.	Name	Level	Reset
2255	POSITION OF ARM IS NOT DOWN	Warning 1	WARN RESET

(Option)

Causes: It tried to move advance or retract the arm manually. But the arm is not in the lower limits position.

Remedy: Please operate after moving the arm to the lower limits position.

A2256

No.	Name	Level	Reset
2256	UP AND DOWN POSITION OF ARM ARE NOT CORRECT	Warning 1	WARN RESET

(Option)

Causes: It tried to move advance or retract the arm manually. But the arm is not in the upper limits or lower limits position.

** The Target Machine (EDNC85N, EDNC157, EDNC207)

Remedy: Please operate after moving the arm to the upper limits or lower limits position.

A2257

No.	Name	Level	Reset
2257	PLEASE RETURN AGC MAGAZINE	Warning 3/1	WARN RESET

(Option)

Causes: The Work tank was made rise when the AGC magazine move advance.

Remedy: Please operate after making the AGC magazine retract.

A2258

No.	Name	Level	Reset
2258	PLEASE MOVE AXES TO SAFE POSITION	Warning 1	WARN RESET

(Option)

Causes: It tried to revolve the arm manually. But the spindle axis is not in the safety position.

Remedy: Please operate after making the spindle axis move to the safety position.

A2259

No.	Name	Level	Reset
2259	MOVE ARM TO STANDBY POS.(MAGAZINE SIDE)	Warning 3/1	WARN RESET

(Option)

Causes: The Work tank was risen when the arm is not in the standby position.

(The arm revolving position is on the magazine side.).

Remedy: Please operate after moving the arm to the standby position.

A2260

No.	Name	Level	Reset
2260	AXIS IS NOT AT POSITON WHICH IS ABLE TO CHANGE	Warning 3/1	WARN RESET

(Option)

Causes: The spindle axis was not in the tool exchange position such that it is possible to exchange an electrode or a work with the ATC or the robot and so on.

Remedy: Please operate after moving the spindle axis to the tool exchange position.

A2261

No.	Name	Level	Reset
2261	ELECTRODE NO. IS ILLEGAL	Warning 3	WARN RESET

(Option)

Causes: The Electrode number or the Spindle Elect. Number, which is ordered by ATC or Robot and so on, is not correct.

Remedy: Please operate after checking the ordered Elect. Number.

A2263

No.	Name	Level	Reset
2263	WORK TANK IS NOT AT POSITION WHICH IS ABLE TO CHANG	Warning 3	WARN RESET

(Option)

Causes: Because the work tank is at too high a position, it is not possible to exchange the tool.

Remedy: Please move down the work tank to the lower limit.

A2264

No.	Name	Level	Reset
2264	ARM IS NOT STANDBY POSITION	Warning 1	WARN RESET

(Option)

Causes: The arm is not in the standby position.

Remedy: Please move the arm to the standby position.

A2265

No.	Name	Level	Reset
2265	POSITION OF MAGAZINE IS NOT CORRECT (ATC, P/C UNIT)	Warning 1	WARN RESET

(Option)

Causes:

- (1) The index position of pallet changer unit is not at the correct position (two pallet type).
- (2) The index position of ATC unit is not at the correct position (ATC).

Remedy: Press reset key and change to manual mode, then please index with the manual index switch.

A2266

No.	Name	Level	Reset
2266	MANUAL MAGAZINE INDEX BUTTON IS ON(P/M,P/C UNIT)	Warning 3	WARN RESET

(Option)

Causes: During automatic operation, the manual magazine index button is on.

Remedy: Please do not press down the manual magazine index button.

A2267

No.	Name	Level	Reset
2267	MAGAZINE INDEX SWITCH IS ON	Warning 3	WARN RESET

(Option)

Description: The magazine index switch is turned on.

A2268

No.	Name	Level	Reset
2268	PALLET EXIST ON MAGAZINE	Warning 1	WARN RESET

(Option)

Causes: Because there is a pallet on the magazine, it isn't possible to do a pallet exchange.

Remedy: Choose the magazine that doesn't have a pallet or remove it.

A2269

No.	Name	Level	Reset
2269	POSITION OF ARM IS NOT CORRECT(P/M,P/C UNIT)	Warning 1	WARN RESET

(Option)

Causes: It is in the wrong position of the arm.

Remedy: Manually move the position of the arm to the right position.

A2270

No.	Name	Level	Reset
2270	PLEASE CHANGE TO C AXIS MODE(ROTALY AXIS)	Warning 3/1	WARN RESET

(Option)

Causes: C axis mode was not set while using ATC.

Remedy: After selecting C axis mode, try again.

A2272

No.	Name	Level	Reset
2272	PLEASE OPEN GUIDE(MIDDLE GUIDE)	Warning 3/1	WARN RESET

(Option)

Causes: The upper or lower guide was not opened while using ATC.

Remedy: After opening the middle guide, try again.

A2273

No.	Name	Level	Reset
2273	PLEASE LOWER GUIDE(MIDDLE GUIDE)	Warning 3/ 1	WARN RESET

(Option)

Causes: The guide was not in the minimum position while using ATC.

Remedy: After lowering the middle guide, try again.

A2274

No.	Name	Level	Reset
2274	PLEASE OPEN THE SHUTTER OR THE ACCESS DOOR (P/M, P/C UNIT)	Warning 1	WARN RESET

(Option)

Causes: The exchange operation was performed while the shutter or the access door is not in open state.

Remedy: Please open the shutter or the access door before exchange operation.

A2276

No.	Name	Level	Reset
2276	HIGH PRESSURE FLUSHING IS ON	Warning 1	WARN RESET

(Option)

Description: The high-pressure flushing unit is in operation.

A2277

No.	Name	Level	Reset
2277	LOW PRESSURE FLUSHING IS ON	Warning 1	WARN RESET

(Option)

Description: The low-pressure flushing unit is in operation.

A2278

No.	Name	Level	Reset
2278	CHUCK IS NOT UNCLAMPED	Warning 3	WARN RESET

(Option)

Causes: Chuck is not unclamped

Remedy: Press Reset key and execute the ATC operation again from the beginning.

A2279

No.	Name	Level	Reset
2279	PLEASE ADVANCE THE ARM OR MAGAZINE	Warning 1	WARN RESET

(Option)

Causes: The magazine was rotated when the arm is in retract position. (EDAC1).

Remedy: Advance the arm from MC CONTROL, ATC screen and retry the operation.

A2280

No.	Name	Level	Reset
2280	PLEASE CLAMP AGC FINGER	Warning 1	WARN RESET

(Option)

Causes: AGC Exchanged was attempted when AGC finger opened.

Remedy: Please close AGC finger. If it has been closed, the problem may lie in the Limit Switch.

Please contact us for further assistance.

A2281

No.	Name	Level	Reset
2281	AGC MAGAZINE POSITION IS NOT CORRECT	Warning 1	WARN RESET

(Option)

Causes: The AGC magazine is not at the exchange position.

Remedy: Confirm if the AGC magazine position is correct. If the position has been correct, the problem may lie in the Limit Switch. Please contact us for further assistance.

A2282

No.	Name	Level	Reset
2282	PLEASE UNCLAMP THE GRIPPER OF ROUGH GUIDE	Warning 1	WARN RESET

(Option)

Causes: The Rough Guide - Gripper is clamped.

Remedy: Unclamp the Rough Guide - Gripper. If the gripper has been unclamped, the problem may lie in the Limit Switch. Please contact us for further assistance.

A2283

No.	Name	Level	Reset
2283	PLEASE RETURN THE ROUGH GUIDE	Warning 1	WARN RESET

(Option)

Causes: Rough guide is not returned

Remedy: Please make sure the Rough Guide is returned. If the Rough guide has been returned, the problem may lie in the Limit Switch. Please contact us for further assistance.

A2284

No.	Name	Level	Reset
2284	INPUT GUIDE NO. IS ILLEGAL	Warning 1	WARN RESET

(Option)

Causes: The guide number specified is out of range.

Remedy: Please check the Guide Number. The valid range for the Guide Number is 0-99.

A2285

No.	Name	Level	Reset
2285	MODAL GUIDE NO. IS ILLEGAL	Warning 1	WARN RESET

(Option)

Causes: The Modal Guide Number specified is out of range.

Remedy: Please check the Modal Guide Number. The valid range for the Guide Number is 0-99.

A2286

No.	Name	Level	Reset
2286	GUIDE PLATE ATTACHED ON THE AUTO ELECTRODE SUPPORT GUIDE	Warning 1	WARN RESET

(Option)

Causes:

- (1) During unloading time, the Guide Plate did not detach from the Automatic Electrode Support Guide.
- (2) During loading time, the Guide Plate is already in the Automatic Electrode Support Guide.

Remedy:

- (1) There might be a problem in the Automatic Electrode Support Guide due to bad adjustment of Guide Plate or defective Pull-stat or Sensor problem. Please contact us if problem occurs frequently.
- (2) If the Guide Plate is in the Automatic Electrode Support Guide, please unload it by manual or automatic operation. If there is no Guide Plate in the Guide, the problem may lie in the sensor. Please contact us for further assistance.

A2287

No.	Name	Level	Reset
2287	EMPTY GUIDE PLATE ON THE AUTO ELECTRODE SUPPORT GUIDE	Warning 1	WARN RESET

(Option)

Causes:

- (1) During unloading time, the Guide Plate did not attach to the Automatic Electrode Support Guide.
- (2) During loading time, there is no Guide Plate in the Automatic Electrode Support Guide.

Remedy:

- (1) There might be a problem in the Automatic Electrode Support Guide due to bad adjustment of Guide Plate or defective Pull Stud or Sensor problem. Please contact us if problem occurs frequently.
- (2) If there is no Guide Plate in the Automatic Electrode Support Guide, please load it by manual or automatic operation. If the Guide Plate is already in the Guide, the problem may lie in the sensor. Please contact us for further assistance.

A2288

No.	Name	Level	Reset
2288	GUIDE PLATE EXIST ON THE AGC MAGAZINE	Warning 1	WARN RESET

(Option)

Causes: During unloading time, the Guide Plate is already in the AGC Magazine Storage Position.

Remedy: Remove the Guide Plate from the AGC magazine. If the Guide Plate has been removed and the problem still occurs, the problem may lie in the sensor. Please contact us for further assistance.

A2289

No.	Name	Level	Reset
2289	NO GUIDE PLATE ON THE AGC MAGAZINE	Warning 1	WARN RESET

(Option)

Causes: During loading time, there is no Guide Plate in the AGC magazine.

Remedy: Place the guide plate in the AGC magazine. If it has been placed and the problem still occurs, the problem may lie in the sensor. Please contact us for further assistance.

A2290

No.	Name	Level	Reset
2290	PLEASE MOVE Z AXIS IN + DIRECTION	Warning 1	WARN RESET

(Option)

Causes: The following operation is performed at position (*) where Z axis was collided with middle guide.

- (1) GUIDE ARM UP SW was operated with the upper guide was closed.
- (2) UPPER / LOWERGUIDE CLAMP/UNCLAMP SW was operated. (*) The position is below 2nd reference point + 30mm

Remedy:

- (1) Please move Z axis in + direction or unclamp the upper guide.
- (2) Please move Z axis in + direction.

A2291

No.	Name	Level	Reset
2291	PLEASE CLOSE THE ATC COVER	Warning 1	WARN RESET

(Option)

Causes: ATC Magazine Manual Indexing Switch was turned on when ATC Cover is in open status.

Remedy: Please close the ATC Cover and redo the operation.

A2292

No.	Name	Level	Reset
2292	PLEASE PUSH THE ATC MANUAL INTERRUPTION SW	Warning 1	WARN RESET

(Option)

Causes: ATC Magazine Manual Indexing Switch was turned on when ATC manual interruption switch was not turned on.

Remedy: Please turn on the ATC manual interruption switch and redo the operation.

A2293

No.	Name	Level	Reset
2293	PLEASE LOCK THE ARM TURN	Warning 3/2	WARN RESET

(Option)

Cause: In the EDAC1 fine hole type ATC, the following operation was performed though the arm turn is not locked.

- Arm advance/retract operation (ATC screen)
- Shifter advance/retract operation (ATC screen)
- Shifter clamp/unclamp operation (ATC screen)
- Manual magazine index operation

Remedy: On the ATC screen, lock the arm turn and then retry the operation.

If this alarm occurs frequently, the limit switch or solenoid will be faulty. Please contact us.

A2294

No.	Name	Level	Reset
2294	TANK DOWN IS STOPPING TO DRAIN DIRECTRIC FLUID	Warning 1	WARN RESET

Cause: When M58 (work tank moving down) is executed, the work tank pauses to drain the dielectric fluid.

Remedy: When the work tank pause time (setting range: 1 - 255 seconds) elapsed, the work tank automatically restarts to move down. At this time, the message disappears automatically.

A2295

No.	Name	Level	Reset
2295	PALLETES ARE BEING EXCHANGED	Warning 1	WARN RESET

(Option)

Causes: During pallet change operation, the magazine index switch was operated.

Remedy: During the pallet change operation, the manual magazine index switch on the pallet change unit (pallet magazine unit, pallet changer unit) cannot be operated. Operate it again after the pallet change.

A2296

No.	Name	Level	Reset
2296	PLEASE PUSH THE MANUAL INTERRUPTION SW (P/M,P/C UNIT)	Warning 1	See Remedy

(Option)

Causes: When the manual magazine index switch on the pallet change unit was turned on, the manual interrupt switch was not turned on.

Remedy: Turn on the manual interrupt switch when operating the manual magazine index switch.

A2297

No.	Name	Level	Reset
2297	PLEASE MOVE AWAY DISTANCE BETWEEN W AXIS AND Z AXIS FOR CRUSH PREVENTION	Warning 2	WARN RESET

(Option)

Description: The W axis (automatic electrode guide) and the Z-axis have come to each other and are at risk of collision. Widen the distance between them.

Causes: The W axis (automatic electrode guide) and the Z-axis have come to each other, leaving a distance shorter than the specified collision prevention distance between them.

Remedy: Widen the distance between the W-axis (automatic electrode guide) and the Z-axis until this alarm is cleared.

A2298

No.	Name	Level	Reset
2298	GEAR RATIO OF ROTARY AXIS IS NOT SET (No. 4006)	Warning 3	WARN RESET

(Option)

Description: Rotation cannot be started because the gear ratio of the rotary axis (spindle) has not been set.

Causes: The gear ratio (No. 4006) of the rotary axis is set to 0

Remedy: Set the gear ratio of the rotary axis at No. 4006.

A2300

No.	Name	Level	Reset
2300	ATC MGZ INDEX TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC Magazine Index operation was not completed within 60 seconds.

Remedy: The Limit switch is suspected to be faulty. Contact us for repair.

A2301

No.	Name	Level	Reset
2301	ATC MGZ CYLINDER ADVANCE TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC Magazine Cylinder advance operation was not completed within 60 seconds.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2302

No.	Name	Level	Reset
2302	ATC MGZ CYLINDER RETRACT TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC Magazine Cylinder retract operation was not completed within 60 seconds.

Remedy: The Limit switch is suspected to be faulty. Contact us for repair.

A2303

No.	Name	Level	Reset
2303	ATC MGZ ZERO RETURN TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC Magazine Zero return operation was not completed within 60 seconds.

Remedy: The Limit switch is suspected to be faulty. Contact us for repair.

A2304

No.	Name	Level	Reset
2304	ATC MGZ SLOW DOWN TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC Magazine slow down, operation was not completed within 60 seconds.

Remedy: The Limit switch is suspected to be faulty. Contact us for repair.

A2310

No.	Name	Level	Reset
2310	ATC ARM REVOLUTION (CCW) TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC arm revolution (CCW) operation was not completed within 60 seconds.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2311

No.	Name	Level	Reset
2311	ATC ARM REVOLUTION (CW) TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC arm revolution (CW) operation was not completed within 60 seconds.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2312

No.	Name	Level	Reset
2312	ATC ARM / MGZ ADVANCE TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC arm/magazine advance operation was not completed within 60 seconds.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2313

No.	Name	Level	Reset
2313	ATC ARM / MGZ RETRACT TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC arm/magazine retract operation was not completed within 60 seconds.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact to for repair.

A2315

No.	Name	Level	Reset
2315	ATC ARM UP TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC arm up operation was not completed within 60 seconds.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2316

No.	Name	Level	Reset
2316	ATC ARM DOWN TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC arm down operation was not completed within 60 seconds.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2317

No.	Name	Level	Reset
2317	DETECT CHUCK UNCLAMP ELECTRODE FAILED. FOR SAFETY, CHUCK CLAMP AGAIN AND STOP ATC.	Alarm 1	RESET

(Option)

Description: Electrode is not unclamped from spindle chuck during electrode unload operation in ATC operation.

Remedy: (1) Spindle chuck is clamped after message is displayed, so please return home position ATC in the manual operation.

(2) Check spindle chuck clamp/unclamp operation by manual operation. If the alarm recurs, contact to us for repair.

A2330

No.	Name	Level	Reset
2330	GRIPPER ADVANCE TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC Gripper advance operation was not completed within 60 seconds.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2331

No.	Name	Level	Reset
2331	GRIPPER RETRACT TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC Gripper retract operation was not completed within 60 seconds.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2332

No.	Name	Level	Reset
2332	GRIPPER UNCLAMP TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC Gripper unclamp operation was not completed within 60 seconds.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2333

No.	Name	Level	Reset
2333	GRIPPER CLAMP TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC Gripper clamp operation was not completed within 60 seconds.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2334

No.	Name	Level	Reset
2334	SHIFTER ADVANCE TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The shifter advance operation was not completed within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid may be faulty.

Please contact us for assistance.

A2335

No.	Name	Level	Reset
2335	SHIFTER RETRACT TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The shifter retract operation was not completed within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid may be faulty.

Please contact us for assistance.

A2336

No.	Name	Level	Reset
2336	SHIFTER FINGER UNCLAMP TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The shifter unclamp operation was not completed within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid may be faulty.

Please contact us for assistance.

A2337

No.	Name	Level	Reset
2337	SHIFTER FINGER CLAMP TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The shifter clamp operation was not completed within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid may be faulty.

Please contact us for assistance.

A2338

No.	Name	Level	Reset
2338	ARM TURN LOCK TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The arm turn locking operation did not complete within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid will be faulty. Please contact us

A2339

No.	Name	Level	Reset
2339	ARM TURN UNLOCK TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The arm turn unlocking operation did not complete within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid will be faulty. Please contact us.

A2340

No.	Name	Level	Reset
2340	CHUCK UNCLAMP TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC Chuck unclamp operation was not completed within 60 seconds.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2341

No.	Name	Level	Reset
2341	CYLINDER ENGAGE TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC Cylinder engage, operation was not completed within 60 seconds.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2342

No.	Name	Level	Reset
2342	CYLINDER DISENGAGE TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The ATC Cylinder disengage, operation was not completed within 60 seconds.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2349

No.	Name	Level	Reset
2349	WORK TANK DOWN (TEMPORARY POS.) TIME OUT	Warning 3	WARN RESET

(Option)

Causes: Something is wrong with the Work tank down temporary position, till time out.

Remedy: The Encoder, the mechanism of Work tank drive is suspected to be faulty. Contact us for repair.

A2350

No.	Name	Level	Reset
2350	WORK TANK DOWN (ATC POS.) TIME OUT	Warning 3	WARN RESET

(Option)

Causes: Something is wrong with the Work tank down position by ATC, till time out.

Remedy: The Encoder, the mechanism of Work tank drive is suspected to be faulty. Contact us for repair.

A2351

No.	Name	Level	Reset
2351	WORK TANK MOVE (COMMAND POS.) TIME OUT	Warning 3/1	WARN RESET

Causes: Something is wrong with the Work tank move (command position), till time out.

Remedy: The Encoder, the mechanism of Work tank drive is suspected to be faulty. Contact us for repair.

A2352

No.	Name	Level	Reset
2352	WORK TANK UP (FLUID ON POS.) TIME OUT	Warning 3/1	WARN RESET

Causes: Something is wrong with the Work tank up position, till time went out.

Remedy: The Encoder, the mechanism of Work tank drive is suspected to be faulty. Contact us for repair.

A2353

No.	Name	Level	Reset
2353	WORK TANK DOWN (AXIS MOVE POS.) TIME OUT	Warning 3/1	WARN RESET

Causes: Work tank did not move to the axis roll-around position, till time out.

Remedy: The Encoder, the mechanism of Work tank drive is suspected to be faulty.

Contact to us for repair.

A2354

No.	Name	Level	Reset
2354	WORK TANK UP (UPPER POS.) TIME OUT	Warning 3/1	WARN RESET

Causes: Work tank did not move to the upper position, till time out.

Remedy: The limit switch, the mechanism of Work tank drive is suspected faulty. Contact us for repair.

A2355

No.	Name	Level	Reset
2355	WORK TANK DOWN (LOWER POS.) TIME OUT	Warning 3/1	WARN RESET

Causes: Work tank did not move to the lower position, till time out.

Remedy: The limit switch, the mechanism of Work tank drive is suspected to be faulty.

Contact us for repair.

A2356

No.	Name	Level	Reset
2356	FLUID FILL TIME OUT	Warning 3/1	WARN RESET

Causes: Fluid was not filled, till time out.

Remedy: The pump is suspected to be faulty. Contact us for repair.

A2357

No.	Name	Level	Reset
2357	FLUID DRAIN TIME OUT	Warning 3/1	WARN RESET

Causes: Fluid was not drained enough, till time out.

Remedy: The pump is suspected to be faulty. Contact us for repair.

A2358

No.	Name	Level	Reset
2358	WORK TANK UP (ATC SAVE POS.) TIME OUT	Warning 3	WARN RESET

(Option)

Description: 60 sec has exceeded and the work tank position has not been returned to the previous position after the ATC exchange.

Causes: The work tank was stopped on the way or the rate of the work tank movement has decreased.

There may be a fault in work tank motor or encoder.

Remedy: Replace the work tank motor or encoder.

A2379

No.	Name	Level	Reset
2379	PM MGZ INDEX TIME OUT	Warning 1	WARN RESET

(Option)

Causes: Automatic magazine index operation of the pallet magazine unit was not completed within 300 sec.

Remedy: The pallet magazine unit will be defective.

In case of frequent occurrence, contact to us for repair.

A2380

No.	Name	Level	Reset
2380	PM ARM ADVANCE 1 TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: Something is wrong with the PM arm advance1, till time out.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2381

No.	Name	Level	Reset
2381	PM ARM RETRACT 1 TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: Something is wrong with the PM arm retract1, till time out.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2382

No.	Name	Level	Reset
2382	PM ARM ADVANCE 2 TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: Something is wrong with the PM arm advance2, till time out.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2383

No.	Name	Level	Reset
2383	PM ARM RETRACT 2 TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: Something is wrong with the PM arm retract2, till time out.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2384

No.	Name	Level	Reset
2384	PM ARM UP TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: Something is wrong with the PM arm up, till time out.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2385

No.	Name	Level	Reset
2385	PM ARM DOWN TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: Something is wrong with the PM arm down, till time out.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2386

No.	Name	Level	Reset
2386	PM SHUTTER OPEN TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The PM shutter open operation was not completed within 60 seconds.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact us for repair.

A2387

No.	Name	Level	Reset
2387	PM SHUTTER CLOSE TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The PM shutter close operation was not completed within 60 seconds.

Remedy: The solenoid, pump, or the limit switch is suspected to be faulty. Contact to us for repair.

A2388

No.	Name	Level	Reset
2388	SHOCK ABSORBER (ADV) ADVANCE TIME OUT	Warning 3	WARN RESET

(Option)

Remedy: The limit switch is suspected faulty. Contact us for repair.

A2389

No.	Name	Level	Reset
2389	SHOCK ABSORBER (ADV) RETRACT TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The retract operation of shock absorber (ADV) has not been completed after 60 sec.

Remedy: The limit switch is suspected faulty. Contact us for repair.

A2390

No.	Name	Level	Reset
2390	STOPPER (ADV) ADVANCE TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The advance operation of stopper (ADV) has not been completed after 60 sec.

Remedy: The limit switch is suspected faulty. Contact us for repair.

A2391

No.	Name	Level	Reset
2391	STOPPER (ADV) RETRACT TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The retract operation of stopper (ADV) has not been completed after 60 sec.

Remedy: The limit switch is suspected faulty. Contact us for repair.

A2392

No.	Name	Level	Reset
2392	SHOCK ABSORBER (RET) ADVANCE TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The advance operation of shock absorber (RET) has not been completed after 60 sec.

Remedy: The limit switch is suspected faulty. Contact us for repair.

A2393

No.	Name	Level	Reset
2393	SHOCK ABSORBER (RET) RETRACT TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The retract operation of shock absorber (RET) has not been completed after 60 sec.

Remedy: The limit switch is suspected faulty. Contact us for repair.

A2394

No.	Name	Level	Reset
2394	STOPPER (RET) ADVANCE TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The advance operation of stopper (RET) has not been completed after 60 sec.

Remedy: The limit switch is suspected faulty. Contact us for repair.

A2395

No.	Name	Level	Reset
2395	STOPPER (RET) RETRACT TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The retract action of stopper (RET) has not been completed after 60 sec.

Remedy: The limit switch is suspected faulty. Contact us for repair.

A2396

No.	Name	Level	Reset
2396	POT1 MOVE UP TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The up operation of electrode pot1 has not been completed after 60 sec.

Remedy: The limit switch is suspected faulty. Contact us for repair.

A2397

No.	Name	Level	Reset
2397	POT1 MOVE DOWN TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The down operation of electrode pot1 has not been completed after 60 sec.

Remedy: The limit switch is suspected faulty. Contact us for repair.

A2398

No.	Name	Level	Reset
2398	POT2 MOVE UP TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The up operation of electrode pot2 has not been completed after 60 sec.

Remedy: The limit switch is suspected faulty. Contact us for repair.

A2399

No.	Name	Level	Reset
2399	POT2 MOVE DOWN TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The down operation of electrode pot2 has not been completed after 60 sec.

Remedy: The limit switch is suspected faulty. Contact us for repair.

A2400

No.	Name	Level	Reset
2400	ACCESS DOOR OPEN TIME OUT	Alarm 2	RESET

(Option)

Causes: Conveyor access door open operation has not been completed after 60 sec.

Remedy: Please check the condition of Limit Switch and Solenoid.

A2401

No.	Name	Level	Reset
2401	ACCESS DOOR CLOSE TIME OUT	Alarm 2	RESET

(Option)

Causes: Conveyor access door close operation has not been completed after 60 sec.

Remedy: Please check the condition of Limit Switch and Solenoid.

A2410

No.	Name	Level	Reset
2410	AGC MAGAZINE ADVANCE TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The AGC magazine advance movement has not been completed after 60 sec.

Remedy: The Limit Switch may be faulty. Please contact us for further assistance.

A2411

No.	Name	Level	Reset
2411	AGC MAGAZINE RETRACT TIME OUT	Warning 3/1	WARN RESET

(Option)

Causes: The AGC magazine retract movement has not been completed after 60 sec.

Remedy: The Limit Switch may be faulty. Please contact us for further assistance.

A2412

No.	Name	Level	Reset
2412	AGC MAGAZINE UP TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The AGC magazine UP movement has not been completed after 60 sec.

Remedy: The Limit Switch may be faulty. Please contact us for further assistance.

A2413

No.	Name	Level	Reset
2413	AGC MAGAZINE DOWN TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The AGC magazine DOWN movement has not been completed after 60 sec.

Remedy: The Limit Switch may be faulty. Please contact us for further assistance.

A2414

No.	Name	Level	Reset
2414	AGC FINGER UNCLAMP TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The AGC Finger Unclamp operation has not been completed after 60 sec.

Remedy: The Limit Switch may be faulty. Please contact us for further assistance.

A2415

No.	Name	Level	Reset
2415	AGC FINGER CLAMP TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The AGC Finger Clamp operation has not been completed after 60 sec.

Remedy: The Limit Switch may be faulty. Please contact us for further assistance.

A2429

No.	Name	Level	Reset
2429	HIGH PRESSURE FLUSHING ON TIME OUT (FLOW RATE)	Warning 3	RESET

Description: The high pressure flushing was turned on, but the specified flow rate was not achieved.

Action: (1) Check the mounted electrode.

If the electrode is clogged, change it to a new one.

(2) Change to a properly specified flow rate, and turn on the high pressure flushing.

A2430

No.	Name	Level	Reset
2430	HIGH PRESSURE FLUSHING OFF TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The High-Pressure Flushing Unit -Flush OFF Operation has not been completed after 60 sec.

Remedy: The Limit Switch may be faulty. Please contact us for further assistance.

A2431

No.	Name	Level	Reset
2431	LOW PRESSURE FLUSHING OFF TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The Low-Pressure Flushing Unit -Flush OFF Operation has not been completed after 60 sec.

Remedy: The Limit Switch may be faulty. Please contact us for further assistance.

A2432

No.	Name	Level	Reset
2432	FLUSHING SEAL ON TIME OUT	Warning 3	WARN RESET

(Option)

Causes: The Flushing Unit –Seal ON Operation has not been completed after 60 sec.

Remedy: The Limit Switch may be faulty. Please contact us for further assistance.

A2433

No.	Name	Level	Reset
2433	FLUSHING SEAL OFF TIME OUT	Warning 3	WARN RESET

(Option)

Causes: In the machine with fine hole specification, the head seal (in rotary joint) was not turned off within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid maybe faulty.
Please contact us for assistance.

A2434

No.	Name	Level	Reset
2434	HIGH PRESSURE FLUSHING ON TIME OUT	Warning 3	WARN RESET

(Option)

Causes: In the machine with fine hole specification, when high pressure flushing was operated, the flushing pressure did not reach the specified pressure within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid maybe faulty.

Please contact us for assistance.

A2435

No.	Name	Level	Reset
2435	LOW PRESSURE FLUSHING ON TIME OUT	Warning 3	WARN RESET

(Option)

Causes: In the machine with fine hole specification, when low pressure flushing was operated, the flushing pressure did not reach the specified pressure within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid maybe faulty.

Please contact us for assistance.

A2436

No.	Name	Level	Reset
2436	UPPER GUIDE CLAMP TIME OUT	Warning 3	WARN RESET

(Option)

Cause: The upper guide clamping operation of the middle guide unit did not complete within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid will be faulty. Please contact us..

A2437

No.	Name	Level	Reset
2437	UPPER GUIDE UNCLAMP TIME OUT	Warning 3	WARN RESET

(Option)

Cause: The upper guide unclamping operation of the middle guide unit did not complete within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid will be faulty. Please contact us.

A2438

No.	Name	Level	Reset
2438	LOWER GUIDE CLAMP TIME OUT	Warning 3	WARN RESET

(Option)

Cause: The lower guide clamping operation of the middle guide unit did not complete within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid will be faulty. Please contact us.

A2439

No.	Name	Level	Reset
2439	LOWER GUIDE UNCLAMP TIME OUT	Warning 3	WARN RESET

(Option)

Cause: The lower guide unclamping operation of the middle guide unit did not complete within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid will be faulty. Please contact us.

A2440

No.	Name	Level	Reset
2440	GUIDE ARM UP TIME OUT	Warning 3	WARN RESET

(Option)

Cause: The arm up operation of the middle guide unit did not complete within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid will be faulty. Please contact us.

A2441

No.	Name	Level	Reset
2441	GUIDE ARM DOWN TIME OUT	Warning 3	WARN RESET

(Option)

Cause: The arm down operation of the middle guide unit did not complete within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid will be faulty. Please contact us.

A2442

No.	Name	Level	Reset
2442	GUIDE CLAMP TIME OUT	Warning 3	WARN RESET

(Option)

Cause: The guide clamping operation of the middle guide unit did not complete within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid will be faulty. Please contact us.

A2443

No.	Name	Level	Reset
2443	GUIDE UNCLAMP TIME OUT	Warning 3	WARN RESET

(Option)

Cause: The guide unclamping operation of the middle guide unit did not complete within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid will be faulty. Please contact us.

A2444

No.	Name	Level	Reset
2444	GUIDE ARM ADVANCE TIME OUT	Warning 3	WARN RESET

(Option)

Cause: The arm advance operation of the rough guide unit did not complete within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid will be faulty. Please contact us.

A2445

No.	Name	Level	Reset
2445	GUIDE ARM RETRACT TIME OUT	Warning 3	WARN RESET

(Option)

Cause: The arm retract operation of the rough guide unit did not complete within 60 seconds.

Remedy: If this alarm occurs frequently, the limit switch or solenoid will be faulty. Please contact us.

A2446

No.	Name	Level	Reset
2446	LOW PRESSURE FLUSHING ON TIME OUT	Warning 3	WARN RESET

(Option)

Causes: In the spindle chuck unclamp request waiting operation, no response is returned from external unit (such as robot) within 60 seconds.

Remedy: Check the control and wiring of external unit.

A2447

No.	Name	Level	Reset
2447	Spindle chuck clamp request operation time out	Warning 3	WARN RESET

(Option)

Causes: In the spindle chuck clamp request waiting operation, no response is returned from external unit (such as robot) within 60 seconds.

Remedy: Check the control and wiring of external unit.

A2448

No.	Name	Level	Reset
2448	Table chuck unclamp request operation time out	Warning 3	WARN RESET

(Option)

Causes: In the table chuck unclamp request waiting operation, no response is returned from external unit (such as robot) within 60 seconds.

Remedy: Check the control and wiring of external unit.

A2449

No.	Name	Level	Reset
2449	Table chuck clamp request operation time out	Warning 3	WARN RESET

(Option)

Causes: In the table chuck clamp request waiting operation, no response is returned from external unit (such as robot) within 60 seconds.

Remedy: Check the control and wiring of external unit

A2450

No.	Name	Level	Reset
2450	Robot Change Completion Time Out	Warning 3	WARN RESET

(Option)

Causes: In the robot change completion waiting operation, no response is returned from the robot within 60 seconds.

Remedy: Check the control and wiring of the robot.

A2451

No.	Name	Level	Reset
2451	ROTATE MODE CHANGE TIME OUT (ROTATION HEAD)	Warning 3	WARN RESET

(Option)

Description: When the coordinate system is rotated (G92P_ is executed), the axis has been made to move the specified rotation angle by manual jog control.

Related signals:

C-LS (Grp No.30 bit0)

RS-LS (Grp No.30 bit1)

Remedy: In case of frequent occurrence, contact us of the trouble procedure.

A2452

No.	Name	Level	Reset
2452	[ROTATE START] CANNOT BE EXECUTED DURING [MANUAL ZRN]	Warning 3	WARN RESET

(Option)

Description: It attempted to execute [ROTATE START] while [MANUAL ZRN] was turned on.

Remedy: Turn off [MANUAL ZRN], and then execute [ROTATE START].

A2460A2464

No.	Name	Level	Reset
2460	MIDDLE GUIDE 1 CLOSE TIME OUT	Warning 3	WARN RESET
2461	MIDDLE GUIDE 2 CLOSE TIME OUT	Warning 3	WARN RESET
2462	MIDDLE GUIDE 3 CLOSE TIME OUT	Warning 3	WARN RESET
2463	MIDDLE GUIDE 4 CLOSE TIME OUT	Warning 3	WARN RESET
2464	MIDDLE GUIDE 5 CLOSE TIME OUT	Warning 3	WARN RESET

Description: The intermediate-guide closing operation did not complete within 20 seconds.

Cause: Limit switch or solenoid failure. An input or output IO signals is faulty.

Action: Contact us if the same problem occurs again.

A2465A2469

No.	Name	Level	Reset
2465	MIDDLE GUIDE 1 OPEN TIME OUT	Warning 3	WARN RESET
2466	MIDDLE GUIDE 2 OPEN TIME OUT	Warning 3	WARN RESET
2467	MIDDLE GUIDE 3 OPEN TIME OUT	Warning 3	WARN RESET
2468	MIDDLE GUIDE 4 OPEN TIME OUT	Warning 3	WARN RESET
2469	MIDDLE GUIDE 5 OPEN TIME OUT	Warning 3	WARN RESET

Description: The intermediate-guide opening operation did not complete within 20 seconds.

Cause: Limit switch or solenoid failure. An input or output IO signals is faulty.

Action: Contact us if the same problem occurs again.

A2470

No.	Name	Level	Reset
2470	ROUGH GUIDE CANNOT BE MOVED TO POSITION OF CLOSING ALLOWED	Warning 3	WARN RESET

Description: The rough guide cannot move to a height where it could be closed.

Cause: Limit switch or solenoid failure. An input or output IO signals is faulty.

Action: Contact us if the same problem occurs again.

A2471

No.	Name	Level	Reset
2471	MOVE ROUGH GUIDE TO POSITION OF CLOSING ALLOWED	Warning 1	WARN RESET

Description: An attempt was made to manually close the rough guide at a height where it could not be closed.

Cause: The rough guide was not at a height where it could be closed.

Action: Move the rough guide to a height where it can be closed.

If the same problem still occurs, a limit switch is faulty, so contact us.

A2472

No.	Name	Level	Reset
2472	ROUGH GUIDE UP TIME OUT	Warning 3	WARN RESET

Description: The rough guide did not move to the upper limit position within 60 seconds.

Cause: Limit switch or solenoid failure. An input or output IO signals is faulty.

Action: Contact us if the same problem occurs again.

A2473

No.	Name	Level	Reset
2473	ROUGH GUIDE DOWN TIME OUT	Warning 3	WARN RESET

Description: The rough guide did not move to the lower limit position within 60 seconds.

Cause: Limit switch or solenoid failure. An input or output IO signals is faulty.

Action: Contact us if the same problem occurs again.

A2474

No.	Name	Level	Reset
2474	CLOSE AGC MAGAZINE	Warning 3	WARN RESET

Description: When the AGC magazine is not closed, an attempt is made to operate the ATC or AGC.

Cause: The AGC magazine is not closed.

Action: Close the AGC magazine.

If the same symptom still occurs, a limit switch is faulty, so contact us.

A2476

No.	Name	Level	Reset
2476	UP ATC MAGAZINE	Warning 1	WARN RESET

Description: When the ATC magazine is not at the upper limit position, an attempt is made to manually move the ATC magazine forward.

Cause: The ATC magazine is not at the upper limit position.

Action: Move the ATC magazine to the upper limit position.

If the same symptom still occurs, a limit switch failure is faulty, so contact us.

A2477

No.	Name	Level	Reset
2477	MOVE W-AXIS TO HOME POSITION	Warning 3	WARN RESET

Description: When the W-axis is not at the zero point, an attempt is made to manually move up or down the rough guide.

Cause: The W-axis is not at the zero point.

Action: Move the W-axis to the zero point.

A2478

No.	Name	Level	Reset
2478	UP ROUGH GUIDE	Warning 3	WARN RESET

Description: When the rough guide is not at the upper limit position, the following operation was done:

Machine zero return/ ATC zero return/ Work zero return /Start point return/ Reset point return/
Power-off point return.

Cause: The rough guide is not at the upper limit position.

Action: Move the rough guide to the upper limit position.

If the same symptom still occurs, a limit switch failure is faulty, so contact us.

A2479

No.	Name	Level	Reset
2479	AGC IS EXECUTING	Warning 3	WARN RESET

Cause: An attempt is made to manually move up or down the work tank during AGC operation.

Action: After termination of the AGC operation, execute again.

A2480

No.	Name	Level	Reset
2480	ATC MAGAZINE UP TIME OUT	Warning 3	WARN RESET

Description: The ATC magazine did not move to the upper limit position within 60 seconds.

Cause: Limit switch or solenoid failure. An input or output IO signals is faulty.

Action: Contact us if the same problem occurs again.

A2500

No.	Name	Level	Reset
2500	COMMAND WITH WRONG NUMERICAL VALUE	Warning 3	WARN RESET

(Option)

Causes: The numerical value in transport command is wrong or illegal.

Remedy: Please enter the correct numerical value and try again.

A2501

No.	Name	Level	Reset
2501	COMMAND TYPE ERROR	Warning 3	WARN RESET

(Option)

Causes: The command type in transport command is wrong or illegal.

Remedy: Please enter the correct command type and try again.

A2502

No.	Name	Level	Reset
2502	COMMAND MODE ERROR	Warning 3	WARN RESET

(Option)

Causes: The command mode in transport command is wrong or illegal.

Remedy: Please enter the correct command mode and try again.

A2503

No.	Name	Level	Reset
2503	PALLET NUMBER WRONG	Warning 3	WARN RESET

(Option)

Causes: The pallet number in transport command is wrong or illegal.

Remedy: Please enter the correct pallet number and try again.

A2504

No.	Name	Level	Reset
2504	SOURCE UNIT SPECIFIED ERROR	Warning 3	WARN RESET

(Option)

Causes: The source unit in transport command is wrong or illegal.

Remedy: Please enter the correct source unit and try again.

A2505

No.	Name	Level	Reset
2505	SOURCE POT NUMBER SPECIFIED ERROR	Warning 3	WARN RESET

(Option)

Causes: The source pot number in transport command is wrong or illegal.

Remedy: Please enter the correct source pot number and try again.

A2506

No.	Name	Level	Reset
2506	DESTINATION UNIT SPECIFIED ERROR	Warning 3	WARN RESET

(Option)

Causes: The destination unit in transport command is wrong or illegal.

Remedy: Please enter the correct destination unit and try again.

A2507

No.	Name	Level	Reset
2507	DESTINATION POT NUMBER SPECIFIED ERROR	Warning 3	WARN RESET

(Option)

Causes: The destination pot number in transport command is wrong or illegal.

Remedy: Please enter the correct destination pot number and try again.

A2511

No.	Name	Level	Reset
2511	SOURCE UNIT AND POT NUMBER COMBINATION ERROR	Warning 3	WARN RESET

(Option)

Causes: The specified pot number does not exist in the source unit.

Remedy: Please correct the transport command and try again.

A2512

No.	Name	Level	Reset
2512	DESTINATION UNIT AND POT NUMBER COMBINATION ERROR	Warning 3	WARN RESET

(Option)

Causes: The specified pot number does not exist in the destination unit.

Remedy: Please correct the transport command and try again.

A2517

No.	Name	Level	Reset
2517	ELECTRODE EXISTENCE IN WSS	Warning 3	WARN RESET

(Option)

Causes: The transport command cannot be executed due to the electrode existence in WSS.

Remedy: Confirm the existence of electrode in WSS, place it into the correct condition, and try again.

A2518

No.	Name	Level	Reset
2518	ELECTRODE EXISTENCE IN WSS	Warning 3	WARN RESET

(Option)

Causes: The transport command cannot be executed due to the electrode existence in WSS.

Remedy: Please remove the electrode in WSS and try again.

A2519

No.	Name	Level	Reset
2519	ELECTRODE EXISTENCE IN WSS	Warning 3	WARN RESET

(Option)

Causes: The transport command cannot be executed due to the electrode existence in WSS.

Remedy: Please remove the electrode in WSS and try again.

A2520

No.	Name	Level	Reset
2520	WORK EXISTENCE IN WSS	Warning 3	WARN RESET

(Option)

Causes: The transport command cannot be executed due to the work existence in WSS.

Remedy: Confirm the existence of work in WSS, place it into the correct condition, and try again.

A2521

No.	Name	Level	Reset
2521	WORK EXISTENCE IN WSS	Warning 3	WARN RESET

(Option)

Causes: The transport command cannot be executed due to the work existence in WSS.

Remedy: Please remove the work in WSS and try again.

A2522

No.	Name	Level	Reset
2522	WORK EXISTENCE IN WSS	Warning 3	WARN RESET

(Option)

Causes: The transport command cannot be executed due to the work existence in WSS.

Remedy: Please remove the work in WSS and try again.

A2523

No.	Name	Level	Reset
2523	EWC ALARM	Warning 3	WARN RESET

(Option)

Causes: Alarm is generated in EWC Unit.

Remedy: Please release the alarm in EWC unit and try again.

A2524

No.	Name	Level	Reset
2524	EWC IN MAINTENANCE MODE	Warning 3	WARN RESET

(Option)

Causes: The transport command cannot be executed as EWC is in maintenance mode.

Remedy: Please release the maintenance mode in EWC unit and try again.

A2534

No.	Name	Level	Reset
2534	EWC SHUTTER OPEN ERROR	Warning 3	WARN RESET

(Option)

Causes: EWC Shutter cannot be opened.

Remedy: Please check the machine alarm and confirm the state of the Limit Switch.

A2535

No.	Name	Level	Reset
2535	EWC SHUTTER CLOSE ERROR	Warning 3	WARN RESET

(Option)

Causes: EWC Shutter cannot be closed.

Remedy: Please check the machine alarm and confirm the state of the Limit Switch.

A2536

No.	Name	Level	Reset
2536	EWC SHUTTER ERROR	Warning 3	WARN RESET

(Option)

Causes: EWC Shutter cannot be operated.

Remedy: Please check the machine alarm and confirm the state of the Limit Switch.

A2537

No.	Name	Level	Reset
2537	EWC SHUTTER IS OPEN OR MC ACCESS ENABLE	Warning 3	WARN RESET

(Option)

Causes: The transport command, tank or axis movement cannot be executed as EWC Shutter is opened or the machine access is enabled.

Remedy: Please close the EWC shutter or disable the machine access.

A2540

No.	Name	Level	Reset
2540	ATC IS NOT HOME POSITION. RETURN POSITION BY MANUAL.	Warning 1	See Remedy

(Option)

Description: ATC is not in the home position.

Remedy: Please return home position ATC in the manual operation screen while confirming safety.
The message disappears automatically when returning to home position.

A2541

No.	Name	Level	Reset
2541	ALL AXES ARE LOCKING (SELECTE JOG FEED [MIDDLE] OR LESS)	Warning 3	WARN RESET

(Option)

Description: The movement of all axes are locked for safety when the ATC is not in home position.

Remedy: Please return home position ATC in the manual operation screen while confirming safety.

The message disappears automatically when returning to home position.

[Note]

FPB feed speed must be changed to [MIDDLE] or less, and the axis must move when the axis movement is necessary to return ATC home position.

At this time, please operate it while confirming whether neither ATC nor the axis interfere.

A2549

No.	Name	Level	Reset
2549	MACHINE NOT AT ELECTRODE CHANGE POSITION	Warning 3	WARN RESET

(Option)

Causes: The machine coordinate is not in ATC electrode exchange position.

Remedy: Please move the axis to the 2nd reference point and try again.

A2550

No.	Name	Level	Reset
2550	MACHINE NOT AT WORK CHANGE POSITION	Warning 3	WARN RESET

(Option)

Causes: The machine coordinate is not in ATC work exchange position.

Remedy: Please move the axis to the 3rd reference point and try again.

A2552

No.	Name	Level	Reset
2552	ELECTRODE CHANGE TANK POSITION ERROR	Warning 3	WARN RESET

(Option)

Causes: The work tank is not in ATC electrode exchange position.

Remedy: Please move the work tank to ATC electrode exchange position and try again.

A2553

No.	Name	Level	Reset
2553	WORK CHANGE TANK POSITION ERROR	Warning 3	WARN RESET

(Option)

Causes: The work tank is not in work exchange position

Remedy: Please move the work tank to work exchange position and try again.

A2560

No.	Name	Level	Reset
2560	WSS DOOR OPEN	Warning 3	WARN RESET

(Option)

Causes: The transport command cannot be executed as the WSS door is opened

Remedy: Please close WSS door and try again.

A2561

No.	Name	Level	Reset
2561	WSS DOOR UNLOCK	Warning 3	WARN RESET

(Option)

Causes: The transport command cannot be executed as the WSS door lock has been released.

Remedy: Please close or open the WSS door completely and try again.

A2562

No.	Name	Level	Reset
2562	EWC DOOR OPEN	Warning 3	WARN RESET

(Option)

Causes: The transport command cannot be executed as the EWC door is opened.

Remedy: Please close EWC door and try again.

A2563

No.	Name	Level	Reset
2563	EWC NOT STANDBY	Warning 3	WARN RESET

(Option)

Causes: The transport command cannot be executed, as EWC is not in standby state.

Remedy: Please change EWC state to standby and try again.

A2564

No.	Name	Level	Reset
2564	EWC NOT POWER ON	Warning 3	WARN RESET

(Option)

Causes: The power supply of EWC Unit is not turned on.

Remedy: Please turn on the power supply of EWC Unit.

A2565

No.	Name	Level	Reset
2565	EWC NOT READY	Warning 3	WARN RESET

(Option)

Causes: The EWC Unit is not in the operating state.

Remedy: Please check the state of EWC Unit.

A2580

No.	Name	Level	Reset
2580	TIME OUT ERROR WHEN RECEIVING	Warning 3	WARN RESET

(Option)

Causes: Unable to receive the response when communicating with EWC Unit.

Remedy: Please check the communication setting of EWC Unit and the cable connection.

If this occurs frequently, please contact us.

A2581

No.	Name	Level	Reset
2581	DATA OVERFLOW ERROR WHEN RECEIVING	Warning 3	WARN RESET

(Option)

Causes: Data overflow error when communicating with EWC Unit.

Remedy: Please check the communication setting of EWC Unit and the cable connection.

If this occurs frequently, please contact us.

A2582

No.	Name	Level	Reset
2582	DATA ERROR WHEN RECEIVING	Warning 3	WARN RESET

(Option)

Causes: Data error when communicating with EWC Unit.

Remedy: Please check the communication setting of EWC Unit and the cable connection.

If this occurs frequently, please contact us.

A2583

No.	Name	Level	Reset
2583	DATA ERROR WHEN RECEIVING	Warning 3	WARN RESET

(Option)

Causes: Received data error when communicating with EWC Unit.

Remedy: Please check the communication setting of EWC Unit and the cable connection.

If this occurs frequently, please contact us.

A2584

No.	Name	Level	Reset
2584	CHECK SUM ERROR WHEN RECEIVING	Warning 3	WARN RESET

(Option)

Causes: Check sum data error when communicating with EWC Unit.

Remedy: Please check the communication setting of EWC Unit and the cable connection.

If this occurs frequently, please contact us.

A2586

No.	Name	Level	Reset
2586	MACHINE ALARM OR EMERGENCY STOP	Warning 3	WARN RESET

(Option)

Causes: Execution is not possible due to alarm or emergency stop in the machine.

Remedy: Please release the alarm or emergency stop and try again.

A2587

No.	Name	Level	Reset
2587	EMERGENCY STOP	Warning 3	WARN RESET

(Option)

Causes: Execution is not possible due to emergency stop in the machine.

Remedy: Please release the emergency stop and try again.

A2588

No.	Name	Level	Reset
2588	COMMAND OVERLAPED	Warning 3	WARN RESET

(Option)

Causes: The transport command cannot be executed as the EWC is in transportation state.

Remedy: Please try again after the current transport command is completed.

A2589

No.	Name	Level	Reset
2589	EWC IS BUSY	Warning 3	WARN RESET

(Option)

Causes: Automatic operation (Reference Return or MC Access Position Return) is performed when EWC is in transportation state.

Remedy: Please try again after the current transport command is completed.

A2590

No.	Name	Level	Reset
2590	EWC IS DURING REFERENCE RETURN OR MANUAL ACCESS POSITION RETURN	Warning 3	WARN RESET

(Option)

Causes: The transport command cannot be executed as the EWC is performing Reference Return or MC Access Position Return.

Remedy: Please try again after the current Reference Return or MC Access Position Return command is completed.

A2600

No.	Name	Level	Reset
2600	ATC COVER IS UNLOCKED	ALARM1	RESET

(Option)

Cause: The ATC cover is unlocked.

Remedy: Execute the ID scan once more. The ATC cover will be locked.

A2601

No.	Name	Level	Reset
2601	ERROR AT ID WRITE PROCESS (AW)	ALARM1	RESET

(Option)

Cause: An error occurred in the AW (Auto Write) command processing of ID scan.

Remedy: Confirm the error number displayed on the LED monitor of ID controller, and then please contact us
Execute the ID scan once more.

A2602

No.	Name	Level	Reset
2602	ERROR AT ID READ PROCESS (RD)	ALARM1	WARN RESET

(Option)

Cause: An error occurred in the RD (Read) command processing of ID scan.

Remedy: Confirm the error number displayed on the LED monitor of ID controller, and then please contact us.
Execute the ID scan once more.

A2603

No.	Name	Level	Reset
2603	ERROR AT ID READ PROCESS (AR)	ALARM1	WARN RESET

(Option)

Cause: An error occurred in the AR (Auto Read) command processing of ID scan.

Remedy: Confirm the error number displayed on the LED monitor of ID controller, and then please contact us.
Execute the ID scan once more.

A2604

No.	Name	Level	Reset
2604	RECEIVE COUNTER OVERLIMIT ERROR	ALARM1	WARN RESET

(Option)

Cause: The packet data received from the ID controller are larger than the specified number of bytes to be read.

Remedy: Please contact us if this alarm occurs frequently after rectifying the above situation.

A2605

No.	Name	Level	Reset
2605	ID SCAN WAS INTERRUPTED	ALARM1	WARN RESET

(Option)

Cause: ID scan was interrupted by the RESET or STOP key.

A2606

No.	Name	Level	Reset
2606	PLEASE INDEX MAGAZINE TO POT POSITION	ALARM1	WARN RESET

(Option)

Cause: With the magazine located between pots, an attempt to start the ID scan is made.

Remedy: Index the magazine to the pot position manually, and then retry the ID scan.

A2607

No.	Name	Level	Reset
2607	ILLEGAL PROGRAM CALL	ALARM1	WARN RESET

(Option)

Cause: The ID scan program is started from the NC unit.

Remedy: Start the program through the procedure mentioned in optional manual.

A2788

No.	Name	Level	Reset
2788	THIS FUNCTION HAS BEEN DISABLED BY PRIVILEGE FUNCTION	Warning 1	WARN RESET

(Option)

Description: The function or button you try to operate is disabled by the user privilege function.

A2798

No.	Name	Level	Reset
2798	THIS FUNCTION IS DISABLED DURING REMOTE CONTROL MODE	Warning 1	WARN RESET

(Option)

Description: The function or button you try to operate is disabled by the remote operation of the user EDM viewer.

A2901 A2905

No.	Name	Level	Reset
2901	PORTABLE(FPB) NOT CONNECTED	Warning 3	WARN RESET
2902	PORTABLE(FPB) OUTPUT ERROR (1)	Warning 3	WARN RESET
2903	PORTABLE(FPB) OUTPUT ERROR (2)	Warning 3	WARN RESET
2904	PORTABLE(FPB) INPUT ERROR (1)	Warning 3	WARN RESET
2905	PORTABLE(FPB) INPUT ERROR (2)	Warning 3	WARN RESET

Causes: Disconnection of cable between AVOH card and the portable operation panel, trouble of AVOH card and the portable operation panel, or disconnection cable is suspected.

Remedy: After checking the cable for disconnection, turn the power on again.

If the trouble occurs frequently, contact to us about the trouble condition.

A2990 A2999

No.	Name	Level	Reset
2990	CUSTOM MACRO ERROR 0		
2991	CUSTOM MACRO ERROR 1		
2992	CUSTOM MACRO ERROR 2		
2993	CUSTOM MACRO ERROR 3		
2994	CUSTOM MACRO ERROR 4		
2995	CUSTOM MACRO ERROR 5		
2996	CUSTOM MACRO ERROR 6		
2997	CUSTOM MACRO ERROR 7		
2998	CUSTOM MACRO ERROR 8		
2999	CUSTOM MACRO ERROR 9		

Causes: The following command was made by the custom macro program.

Ex) # variable No. (3000 - 3002) = Message No. (2990 - 2999)

Remedy: Check the custom macro program. Operations differ for #3000 - 3002.

A3000

No.	Name	Level	Reset
3000	POWER BREAKER TRIP	Alarm 2	RESET

Description: Circuit breaker was turned off. (EIO group No.23 bit2 *MAL2=0)

Remedy: Remove a cause for breaker tripping, and then raise the notch to reset.

Please contact us if resetting failed.

A3006

No.	Name	Level	Reset
3006	MACHINE OR GENERATOR OVERHEAT	Alarm 3	RESET

(Option)

Causes: The machine (motor) or heat generating element (CPU, drive unit) of the generator overheated.

Remedy: Stop machining and cool it with the internal fan.

A3009

No.	Name	Level	Reset
3009	HIGH VOLTAGE AVR OUTPUT ERROR	Alarm 2	RESET

Description: Output voltage of High voltage unit exceeded 342 volt.

Causes: Defective EHV card.

Remedy: Contact us of the trouble procedure.

A3010

No.	Name	Level	Reset
3010	LOW VOLTAGE (BASIC) FET, RESISTOR OVERHEAT	Alarm 2	RESET

Description: Standard low voltage unit exceeded 85°C.

Causes:

(1) Fan stopped.

(2) Defective ELV 2 unit.

Remedy: Contact us of the trouble procedure.

A3011

No.	Name	Level	Reset
3011	LOW VOLTAGE (OPTION) FET, RESISTOR OVERHEAT	Alarm 2	RESET

(Option)

Description: Addition low voltage unit of 60 A exceeded 85°C.

Causes:

(1) Fan stopped.

(2) Defective ELV 2 unit.

Remedy: Contact us of the trouble procedure.

A3012

No.	Name	Level	Reset
3012	LOW VOLTAGE (BASIC) AVR OUTPUT ERROR	Alarm 2	RESET

Description: Output voltage of standard low voltage unit AVR exceeded 160 V.

Causes: Defective ELV 2 unit.

Remedy: Contact us of the trouble procedure.

A3013

No.	Name	Level	Reset
3013	LOW VOLTAGE (OPTION) AVR OUTPUT ERROR	Alarm 2	RESET

Description: Output voltage of additional low voltage unit AVR of 60 A exceeded 160 V.

Causes: Defective ELV 2 unit.

Remedy: Contact us of the trouble procedure.

A3014

No.	Name	Level	Reset
3014	RUN POWER OVERLOAD	Alarm 2	RESET

Description:

(1) The breaker of machining generator units or booster units were opened.

(2) EHV unit, ELV 2 unit.

Causes: Failure in the unit where the breaker was opened.

Remedy: Contact us of the trouble procedure.

A3016

No.	Name	Level	Reset
3016	BOOSTER FET, RESISTOR OVERHEAT	Alarm 2	RESET

Description: ELV 2 unit in booster overheated.

Causes: Check the LED of BIO card in the booster. LED1 and LED2 show the overheated unit.

(1) Check if the fan is rotating.

(2) Defective ELV 2 unit.

Remedy: Contact us of the trouble procedure.

A3017

No.	Name	Level	Reset
3017	BOOSTER AVR OUTPUT ERROR	Alarm 2	RESET

Description: AVR output voltage of the ELV2 unit in the booster exceeded 160 V.

Causes: Check the LED of BIO card in the booster. LED3 and LED4 show the defective unit.

Defective ELV 2 unit.

Remedy: Contact us of the trouble procedure.

A3018

No.	Name	Level	Reset
3018	BOOSTER NOT CONNECTED	Warning 3	WARN RESET

(Option)

Causes: This message appears when the machining condition was specified for non-booster type NC on the common booster power source.

Remedy: Change manually the switch of the booster generator and specify the machining condition through the COND screen. If the message does not secure, start machining again.

A3019

No.	Name	Level	Reset
3019	DRAIN PUMP THERMAL TRIP	Alarm 2	RESET

(Option)

Causes: Either or both thermal relays in the hydraulic drain pump tripped.

Remedy: Reset the tripped thermal relay.

If it cannot be reset, please contact us.

A3020

No.	Name	Level	Reset
3020	SPG ALARM	Alarm 2	RESET

(Option)

Causes: Error occurs during communication with SPG circuit

Remedy: There may be connection problem or faulty in SPG circuit, please contact us for assistance.

A3040

No.	Name	Level	Reset
3040	SPA ALARM	Alarm 2	RESET

(Option)

Description: SPA unit error

Causes: The SPA unit cooling fan stopped. Or a breakdown occurred in the SPA unit.

Remedy: Contact us of the trouble procedure.

A3100

No.	Name	Level	Reset
3100	ECC CARD ALARM	Alarm 2	RESET

(ES200A)

Causes: Defective ECC card.

(*ECC_ALARM = 0)

Remedy: Contact us of the trouble procedure.

A3101

No.	Name	Level	Reset
3101	EHV UNIT ALARM	Alarm 2	RESET

(ES200A)

Description: EHV unit error was detected.

(*EHV_ALARM = 0)

(1) EHV unit overheated abnormally.

(2) The breaker inside the unit was opened.

Causes: Defective EHV unit.

Remedy: Contact us of the trouble procedure.

A3102

No.	Name	Level	Reset
3102	ELV UNIT ALARM	Alarm 2	RESET

(ES200A)

Description: ELV unit error was detected. (*ELV_ALARM = 0)

(1) ELV unit overheated abnormally.

(2) Over current was detected.

Causes: Defective ELV unit.

Remedy: Contact us of the trouble procedure.

A3103

No.	Name	Level	Reset
3103	ELV UNIT OVERCURRENT	Warning 1	WARN RESET

(ES200A)

Description: Over current was detected.

Causes: Defective ELV unit.

Remedy: Contact us of the trouble procedure.

A3104

No.	Name	Level	Reset
3104	ELV UNIT OVERHEAT	Warning 1	WARN RESET

(ES200A)

Description: ELV unit overheated abnormally.

Causes: Defective ELV unit.

Remedy: Contact us of the trouble procedure.

A3108

No.	Name	Level	Reset
3108	EVR UNIT ALARM	Alarm 2	RESET

(ES200A)

Description: EVR unit error was detected. (*EVR_ALARM = 0)

(1) First power supply was detected over voltage.

(2) First power supply was detected over current.

(3) Second power supply was detected over voltage.

(4) Second power supply was detected under voltage.

(5) Third power supply was detected over voltage.

(6) Third power supply was detected over current.

(7) 4th power supply was detected over voltage.

(8) 4th power supply was detected under voltage.

(9) EVR unit overheated abnormally.

(10) 3-phase power supply input of EVR unit was dropped abnormally.

(11) 3-phase power supply input of EVR unit was open phase.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3109

No.	Name	Level	Reset
3109	EVR UNIT LOW VOLTAGE OVER VOLTAGE	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit 1st power supply was detected over voltage.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3110

No.	Name	Level	Reset
3110	EVR UNIT LOW VOLTAGE OVERCURRENT	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit 1st power supply was detected over current.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3111

No.	Name	Level	Reset
3111	EVR UNIT LOW VOLTAGE BACK POWER OVER VOLTAGE	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit 2nd power supply was detected over voltage.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3112

No.	Name	Level	Reset
3112	EVR UNIT LOW VOLTAGE BACK POWER UNDER VOLTAGE	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit 2nd power supply was detected over current.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3113

No.	Name	Level	Reset
3113	EVR UNIT HIGH VOLTAGE OVER VOLTAGE	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit 3rd power supply was detected over voltage.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3114

No.	Name	Level	Reset
3114	EVR UNIT HIGH VOLTAGE OVERCURRENT	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit 3rd power supply was detected over current.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3115

No.	Name	Level	Reset
3115	EVR UNIT HIGH VOLTAGE OVERCURRENT	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit 4th power supply was detected over voltage.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3116

No.	Name	Level	Reset
3116	EVR UNIT HIGH VOLTAGE BACK POWER OVER VOLTAGE	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit 4th power supply was detected under voltage.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3117

No.	Name	Level	Reset
3117	EVR UNIT OVERHEAT	Warning 1	WARN RESET

(ES200A)

Description: EVR unit overheated abnormally.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3118

No.	Name	Level	Reset
3118	EVR UNIT UNDER VOLTAGE	Warning 1	WARN RESET

(ES200A)

Description: 3-phase power supply input of EVR unit was dropped abnormally.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3119

No.	Name	Level	Reset
3119	EVR UNIT OPEN PHASE ALARM	Warning 1	WARN RESET

(ES200A)

Description: 3-phase power supply input of EVR unit was open phase.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3120

No.	Name	Level	Reset
3120	BOOSTER ALARM	Alarm 2	RESET

(ES200A)

Description: Booster unit error was detected. (*BST_ALARM = 0)

(1) Error of ELV unit inside the booster unit was detected.

(2) Error of EVR unit inside the booster unit was detected.

Causes: ELV or EVR unit in the booster is faulty.

Remedy: Contact us of the trouble procedure.

A3121

No.	Name	Level	Reset
3121	BOOSTER1 EVR UNIT LOW VOLTAGE OVER VOLTAGE	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit1 1st power supply inside the booster was detected over voltage.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3122

No.	Name	Level	Reset
3122	BOOSTER1 EVR UNIT LOW VOLTAGE OVERCURRENT	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit1 1st power supply inside the booster was detected over current.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3123

No.	Name	Level	Reset
3123	BOOSTER1 EVR UNIT LOW VOLTAGE BACK POWER OVER VOLTAGE	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit1 2nd power supply inside the booster was detected over voltage.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3124

No.	Name	Level	Reset
3124	BOOSTER1 EVR UNIT LOW VOLTAGE BACK POWER UNDER VOLTAGE	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit1 2nd power supply inside the booster was detected over current.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3125

No.	Name	Level	Reset
3125	BOOSTER1 EVR UNIT LOW VOLTAGE BACK POWER UNDER VOLTAGE	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit1 inside the booster overheated abnormally.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3126

No.	Name	Level	Reset
3126	BOOSTER1 EVR UNIT UNDER VOLTAGE	Warning 1	WARN RESET

(ES200A)

Description: 3-phase power supply input of EVR unit1 inside the booster was dropped abnormally.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3127

No.	Name	Level	Reset
3127	BOOSTER1 EVR UNIT OPEN PHASE ALARM	Warning 1	WARN RESET

(ES200A)

Description: 3-phase power supply input of EVR unit1 inside the booster was open phase.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3128

No.	Name	Level	Reset
3128	BOOSTER1 ELV UNIT OVERCURRENT	Warning 1	WARN RESET

(ES200A)

Description: Error of ELV unit1 inside the booster was detected over current.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3129

No.	Name	Level	Reset
3129	BOOSTER1 ELV UNIT OVERHEAT	Warning 1	WARN RESET

(ES200A)

Description: Error of ELV unit1 inside the booster overheated abnormally.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3133

No.	Name	Level	Reset
3133	BOOSTER2 ELV UNIT OVERHEAT	Warning 1	WARN RESET

(ES200A)

Description: Error of ELV unit2 inside the booster overheated abnormally.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3137

No.	Name	Level	Reset
3137	BOOSTER2 EVR UNIT LOW VOLTAGE OVER VOLTAGE	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit2 1st power supply inside the booster was detected over voltage.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3138

No.	Name	Level	Reset
3138	BOOSTER2 EVR UNIT LOW VOLTAGE OVERCURRENT	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit2 1st power supply inside the booster was detected over current.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3139

No.	Name	Level	Reset
3139	BOOSTER2 EVR UNIT LOW VOLTAGE BACK POWER OVER VOLTAGE	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit2 2nd power supply inside the booster was detected over voltage.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3140

No.	Name	Level	Reset
3140	BOOSTER2 EVR UNIT LOW VOLTAGE BACK POWER UNDER VOLTAGE	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit2 2nd power supply inside the booster was detected under voltage.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3141

No.	Name	Level	Reset
3141	BOOSTER2 EVR UNIT LOW VOLTAGE BACK POWER OVER VOLTAGE	Warning 1	WARN RESET

(ES200A)

Description: Error of EVR unit2 2nd power supply inside the booster overheated abnormally.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3142

No.	Name	Level	Reset
3142	BOOSTER2 EVR UNIT UNDER VOLTAGE	Warning 1	WARN RESET

(ES200A)

Description: 3-phase power supply input of EVR unit2 inside the booster was dropped abnormally.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3143

No.	Name	Level	Reset
3143	BOOSTER2 EVR UNIT OPEN PHASE ALARM	Warning 1	WARN RESET

(ES200A)

Description: 3-phase power supply input of EVR unit2 inside the booster was open phase.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3144

No.	Name	Level	Reset
3144	BOOSTER2 ELV UNIT OVERCURRENT	Warning 1	WARN RESET

(ES200A)

Description: EVR unit2 inside the booster overheated abnormally.

Causes: Defective EVR unit.

Remedy: Contact us of the trouble procedure.

A3145

No.	Name	Level	Reset
3145	BOOSTER THERMAL ALARM	Warning 1	WARN RESET

(ES200A)

Description: Booster unit occurred thermal alarm.

(1) The circuit breaker was thermal tripped.

(2) Thermal guard overheated abnormally.

Causes: (1) Defective 24V,5V power supply, EVR or ELV3 or BIO3.

(2) Defective fan or fan filter broken.

Remedy: Contact us of the trouble procedure.

Notes: This alarm sometimes occurs simultaneously with other booster alarms.

A4001 A4006

No.	Name	Level	Reset
4001	+X OVER TRAVEL	Warning 3	WARN RESET
4002	+Y OVER TRAVEL	Warning 3	WARN RESET
4003	+Z OVER TRAVEL	Warning 3	WARN RESET
4004	+C OVER TRAVEL	Warning 3	WARN RESET
4005	+5 OVER TRAVEL	Warning 3	WARN RESET
4006	+6 OVER TRAVEL	Warning 3	WARN RESET

Causes: The warned-occurring axis is over the + stroke range.

Remedy:

- (1) Select the manual operation mode.
- (2) Get the warn-occurring axis back in - direction by pressing the axis select key in the portable operation panel.

A4007 A4012

No.	Name	Level	Reset
4007	-X OVER TRAVEL	Warning 3	WARN RESET
4008	-Y OVER TRAVEL	Warning 3	WARN RESET
4009	-Z OVER TRAVEL	Warning 3	WARN RESET
4010	-C OVER TRAVEL	Warning 3	WARN RESET
4011	-5 OVER TRAVEL	Warning 3	WARN RESET
4012	-6 OVER TRAVEL	Warning 3	WARN RESET

Causes: The warned-occurring axis is over the - stroke range.

Remedy:

- (1) Select the manual operation mode.
- (2) Get the warn-occurring axis back in + direction by pressing the axis select key in the portable operation panel.

A4015

No.	Name	Level	Reset
4015	AUTO POWER INTERRUPTION BY OVER TRAVEL	Alarm 2	RESET

Causes: Axis movement is over the stroke range in the automatic operation.

Remedy:

- (1) Correct the program.
- (2) Adjust the work piece.

A4016

No.	Name	Level	Reset
4016	DIELECTRIC PUMP THERMAL TRIP	Alarm 2	RESET

Causes: Something is wrong with the thermal control of pumping system.

K3: Rapid pump

K4: Jet pump

K5: Filter pump

Remedy:

(1) Reset the tripped thermal relay.

(2) If it cannot be reset, please contact us.

A4017

No.	Name	Level	Reset
4017	SEAL PUMP OVERLOAD	Alarm 2	RESET

Causes: The fuse (green) for the EIO card has been blown.

Remedy: Replace the blow fuse.

A4018

No.	Name	Level	Reset
4018	DIELECTRIC OVERHEAT	Alarm 2	RESET

Causes: The temperature of the dielectric has risen over 53 °C(±2°C).

Remedy: Allow time for the fluid temperature to drop, then press the [RESET] key.

If the alarm cannot be reset, the fluid temperature sensor will be faulty. In this case, please contact us.

A4019

No.	Name	Level	Reset
4019	AIR PRESSURE LOW	Warning 3	WARN RESET
		Alarm 2	RESET

(Option)

Causes: The air pressure has fallen below 0.6 [MPa] with ATC or DH unit.

(1) In with ATC unit, it becomes alarm 2. EIO NO.33 bit7 AIR-PSW on

(2) In the case of the seal of a work tank, or DH unit, it becomes EIO NO.23 bit5 MAL-5 on.

Remedy: Check the pressure gauge of the air pressure supply unit.

A4020

No.	Name	Level	Reset
4020	AIR PRESSURE OR DIAPHRAGM (SL UNIT)	Warning 3	WARN RESET

(Option)

Causes: Because of the fall of air pressure supplied to the SL (smokeless) machining unit, the air pressure detection limit switch has been activated.

Remedy: Check the air pressure supplied.

When the air pressure is normal, the fault, malfunction or break of the detection switch, or faulty diaphragm of the SL (smokeless) unit is suspected. Contact us for repair.

A4021

No.	Name	Level	Reset
4021	FLOW DROP (SL UNIT)	Warning 3	WARN RESET

(Option)

Causes: Smokeless machining unit:

- (1) Pump is stopped: LED1 on SLAL card lights up.
- (2) Diaphragm is broken: LED2 on SLAL card lights up.
- (3) Chip bucket overflow.

Remedy:

- (1) Clean the spool or replace the pump.
- (2) Replace the diaphragm.
- (3) Discharge the chips in chip bucket.

A4022

No.	Name	Level	Reset
4022	FLUSHING NOZZLE CYLINDER AIR PRESSURE LOW	Warning 3	WARN RESET

(Option)

Causes: The air pressure supplied to the flushing nozzle cylinder dropped and the air pressure detection limit switch operated.

Remedy: Check the pressure gage on the compressor.

After checking, reset the NC unit and turn on the [POWER] and [REFERENCE POINT RETURN] keys on the POD.

A4023

No.	Name	Level	Reset
4023	MASTER POWER OUT (MULTIPLE HEAD)	Warning 3	WARN RESET

(Option)

Causes: For multiple-head unit, operations have been done as follows.

- (1) When the sub-generator is on, the main generator (master generator) has been switched off.
- (2) When the main generator (master generator) is off, the sub-generator has been switched on.

Remedy: When the main generator (master generator) is not on, the sub-generator cannot be used.

A4024

No.	Name	Level	Reset
4024	AT RETRACT FOR INTERFERENCE (MULTIPLE HEAD)	Warning 3	WARN RESET

(Option)

Description: In a specified multiple-head unit operation, position interference occurs, it is now retracting to the position registered by machine parameter No.*080 "MULTIPLE HEAD RETURN POSITION"

Others: Machine Control screen [M-HEAD RETURN] button has.

A4025

No.	Name	Level	Reset
4025	AT RETRACT ERROR (MULTIPLE HEAD)	Warning 3	WARN RESET

(Option)

Causes: The position returning to the interference point differs from the save data at the start of retracting.

(The hold-type macro-variable for the save data has been written differently.)

Remedy: Stop returning to the interference position, and correct the program.

A4026

No.	Name	Level	Reset
4026	DIELECTRIC FLUID COOLER ALARM	Warning 3	WARN RESET

(Option)

Causes: The cooling compressor or fan motor of the dielectric fluid cooler is faulty or the cable is broken.

Related IO:

GRP No.89 Bit6: COOLER START (OUT)

GRP No.23 Bit6: *COOLER ALARM (IN)

Remedy: In case of frequency occurrence, contact us about the trouble procedure.

A4027

No.	Name	Level	Reset
4027	MGZ INDEX UNIT ALARM	Warning 3	WARN RESET

(Option)

Causes: For the magazine index unit,

- (1) Magazine stop error is larger than ± 15 pulses.
- (2) The inverter is overloaded.
- (3) The encoder cable is disconnected.
- (4) A cable between controller and index unit is disconnected.

Remedy: In case of frequency occurrence, contact us about the trouble procedure.

A4028

No.	Name	Level	Reset
4028	OIL PRESSURE PUMP THERMAL TRIP	Alarm 2	RESET

(Option)

Causes:

- (1) Thermal relay tripped by an alarm of hydraulic pump for the ATC arm swivelling.
- (2) The emergency stop signal turned on.

Remedy:

- (1) Contact us of the trouble procedure.
- (2) A reset key is pushed after removing the cause which the emergency stop signal turned on.

A4029

No.	Name	Level	Reset
4029	MGZ INDEX UNIT THERMAL TRIP	Alarm 2	RESET

(Option)

Causes: Thermal relay tripped by an over-current to the magazine positioning unit.

Remedy: Contact us of the trouble procedure.

A4030

No.	Name	Level	Reset
4030	AIR PRESSURE LOW (TANK SEAL)	Warning 3	WARN RESET

Causes: The work tank seal pneumatic pressure was reduced when the dielectric fluid was supplied or the work tank seal open/close operation was performed.

Related IO:

GRP No.88 Bit3: SEAL V2 (OUT)

GRP No.23 Bit5: *COOLER ALARM (IN)

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

A4031

No.	Name	Level	Reset
4031	FILTER UNIT IS OUT OF ORDER	Warning 3	WARN RESET

(Option)

Causes: Unit (diatom earth filter) fails.

Remedy: Reset alarm manually following the instruction manual of filter unit.

A4032

No.	Name	Level	Reset
4032	INDAX ALARM	Alarm 2	See Remedy

(Option)

Causes:

- (1) Specified pot number is illegal.
- (2) Physical address No. of INDAX is illegal.
- (3) Servo off level alarm occurred.

Remedy:

- (1), (2) Check the parameters for INDAX, then turn on the power again.
- (3) Press the [RESET] key.

If the trouble occurs frequently, contact us of the trouble procedure.

A4033

No.	Name	Level	Reset
4033	OIL PUMP THERMAL TRIP FOR WORK TANK DOOR	Alarm 2	RESET

(Option)

Causes: Thermal relay tripped due to faulty oil pump for moving up and down the work tank door.

Remedy: Contact us of the trouble procedure.

A4034

No.	Name	Level	Reset
4034	Z AXIS BRAKE ON (RELEASE BY RESET KEY)	Alarm 3	RESET

(Option)

Causes: The Z axis brake is not released yet.

Remedy: Press the [RESET] key to release the Z axis brake.

The LS will be faulty if the alarm is not reset though the [RESET] key was pressed.

A4035

No.	Name	Level	Reset
4035	HEAD PROTECTION SENSOR ON (HEAD SUBMERGED)	Warning 3	WARN RESET

(Option)

Causes: The head protection sensor (EIO Grp No.B9 *OVHEAD_LS) was activated. It is the sensor that prevents the head from being submerged into dielectric.

Remedy: Please carry out operation according to a cause. Because the message cannot be deleted, it is not possible to start the operation when the sensor is activated.

Please move an axis, or lower the work tank, or turn off the dielectric to raise the head from being submerged.

A4036

No.	Name	Level	Reset
4036	Z AXIS STABILIZER UNIT ERROR	Warning 3	WARN RESET

(Option)

Causes:

- (1) The flow rate sensor detects the coolant flow rate of the coolant supply unit declined.
- (2) The Coolant Supply Main Unit may be malfunction.

Remedy:

- (1) Check the oil level meter of the coolant tank. If the oil level has reached the low limit, replenish the coolant.
- (2) The line filter may be clogged. Please check the line filter. If the red colour button is protruded then the filter elements need to be replaced. After replacing it, please push the button back manually.
- (3) Please contact us if the alarm is not released after rectifying the above situation.

A4037

No.	Name	Level	Reset
4037	HIGHER PRECISION AIR CONDITIONING UNIT ALARM	Warning 3	WARN RESET

(Option)

Causes: Higher Precision Air Conditioning Unit malfunctions. Some of the possible causes:

- (1) Short circuit Protection
Triggering condition: Faulty on the 3-phase power supply line wiring
- (2) Thermal Protection
Triggering condition: Heater overheated (65°C)
- (3) Compressor Protection
Triggering condition: Compressor over-voltage or over-current
- (4) Fan Protection
Triggering condition: Fan over-voltage or over-current

Remedy:

- (1) Fix the 3-phase power supply line wiring
- (2) When temperature decreases, the system restores automatically
- (3) Press the compressor electromagnetic breaker reset button
- (4) Press the fan electromagnetic breaker reset button

Note) (3), (4) Reset buttons are inside the cover of Higher Precision Air Conditioning Unit main body.

A4038

No.	Name	Level	Reset
4038	LOADER AXIS COMMAND ERROR	Alarm 2	RESET

(Option)

Causes: Incorrect loader axis command was executed

Remedy: Correct the program.

A4039

No.	Name	Level	Reset
4039	LOADER AXIS STROKE LIMIT OVER	Alarm 2	RESET

(Option)

Causes: The loader axis has exceeded the stroke limit.

Remedy: Release the alarm by the reset key, and move the axis within the limit.

A4041 A4052

No.	Name	Level	Reset
4041	+X INTERFERENCE (MULTIPLE HEAD)	Warning 2	Interf. Release
4042	+Y INTERFERENCE (MULTIPLE HEAD)	Warning 2	Interf. Release
4043	+Z INTERFERENCE (MULTIPLE HEAD)	Warning 2	Interf. Release
4044	+C INTERFERENCE (MULTIPLE HEAD)	Warning 2	Interf. Release
4045	+5 INTERFERENCE (MULTIPLE HEAD)	Warning 2	Interf. Release
4046	+6 INTERFERENCE (MULTIPLE HEAD)	Warning 2	Interf. Release
4047	-X INTERFERENCE (MULTIPLE HEAD)	Warning 2	Interf. Release
4048	-Y INTERFERENCE (MULTIPLE HEAD)	Warning 2	Interf. Release
4049	-Z INTERFERENCE (MULTIPLE HEAD)	Warning 2	Interf. Release
4050	-C INTERFERENCE (MULTIPLE HEAD)	Warning 2	Interf. Release
4051	-5 INTERFERENCE (MULTIPLE HEAD)	Warning 2	Interf. Release
4052	-6 INTERFERENCE (MULTIPLE HEAD)	Warning 2	Interf. Release

(Option)

Causes: In the multiple-head unit position interference occurred for the axes listed above.

Remedy: Retract respective axes automatically or manually to release the interference.

A4053 A4064

No.	Name	Level	Reset
4053	+X INTERFERE IN ATC ZONE	Warning 3	Interf. Release
4054	+Y INTERFERE IN ATC ZONE	Warning 3	Interf. Release
4055	+Z INTERFERE IN ATC ZONE	Warning 3	Interf. Release
4056	+C INTERFERE IN ATC ZONE	Warning 3	Interf. Release
4057	+5 INTERFERE IN ATC ZONE	Warning 3	Interf. Release
4058	+6 INTERFERE IN ATC ZONE	Warning 3	Interf. Release
4059	-X INTERFERE IN ATC ZONE	Warning 3	Interf. Release
4060	-Y INTERFERE IN ATC ZONE	Warning 3	Interf. Release
4061	-Z INTERFERE IN ATC ZONE	Warning 3	Interf. Release
4062	-C INTERFERE IN ATC ZONE	Warning 3	Interf. Release
4063	-5 INTERFERE IN ATC ZONE	Warning 3	Interf. Release
4064	-6 INTERFERE IN ATC ZONE	Warning 3	Interf. Release

(Option)

Causes: In simplified ATC, positioning (including machining command) was attempted by using a command other than the ATC execution command in the ATC execution range.

Remedy: Move it out of the ATC area.

A4070

No.	Name	Level	Reset
4070	AIR PRESSURE LOW (AWC)	Warning 3	WARN RESET

(Option)

Causes: The air pressure supplied to the AWC lowers, and the air pressure sensor operated.

Remedy: Check the pressure of air pressure source.

A4071

No.	Name	Level	Reset
4071	AIR PRESSURE LOW (P/M, P/C UNIT)	Warning 3	WARN RESET

(Option)

Causes: The air pressure supplied to the pallet magazine unit (P/M) or the pallet change unit (P/C) lowered.

Remedy: Check the pressure of the air compressor.

A4072

No.	Name	Level	Reset
4072	AIR PRESSURE LOW (3R MACRO ROTATE UNIT)	Warning 3	WARN RESET

(Option)

Causes: The air pressure supplied to the 3R MACRO rotary unit (B axis) lowered.

Remedy: Check the pressure of air pressure feeder.

A4073

No.	Name	Level	Reset
4073	AT DIELECTRIC OFF OR AIR PRESSURE LOW	Warning 1	WARN RESET

(Option)

Causes: The air pressure supplied to the large machine supporting μ SC2 has decreased.

Temperature of the machine with chip separator tripped.

(EIO No.2C bit0 *POFF-SW = 0)

Remedy: Check the pressure of.

A4074

No.	Name	Level	Reset
4074	AIR PRESSURE LOW (RIB HEAD)	Warning 3	WARN RESET

(Option)

Causes: The air pressure for counterbalance (liner) dropped.

Remedy: Check the pressure for rib head counterbalance.

A4092

No.	Name	Level	Reset
4092	RUN MODE LOCKING!	Warning 1	WARN RESET

Description: At present, the operation mode has been locked by the operator.

Under this condition, no operation mode can be changed in all status of start, stop, and reset. An attempt to change the operation mode under this condition results in display of this warning message.

Note) The following run modes are affected:

- MANUAL RUN/MDI RUN/MEM RUN/TAPE SET
- RAPID/HIGH/MED/LOW or TOUCH/x1/x10 in FPB SPEED CHANGE
- INTERRUPT on/off in FPB

Causes: The operation mode is locked to prevent a danger or failure that could occur due to an accidental change of operation mode by the third person other than the operator that locked the operation mode.

Remedy:

- (1) Do not reset the mode lock by the third person without permission from the operator that locked the operation mode.
- (2) When resetting the mode lock by the operator that locked the operation mode, make sure that the third person is not in the machine moving range.
- (3) To lock the operation mode
- (4) Set the set data No.0368 "RUN MODE LOCK" to "1".
- (5) To reset the locked operation mode
- (6) Set the set data No.0368 "RUN MODE LOCK" to "0".

A4100

No.	Name	Level	Reset
4100	ILLEGAL DOG POSITION	Alarm 2	RESET

Causes: Dog Position is illegal.

Remedy: Please re-supply the power supply.

In case of frequent occurrence, contact us about the trouble procedure.

A4101 A4118

No.	Name	Level	Reset
4101	+X SOFT OVER TRAVEL	Warning 3	See Remedy
4102	+Y SOFT OVER TRAVEL	Warning 3	See Remedy
4103	+Z SOFT OVER TRAVEL	Warning 3	See Remedy
4104	+C SOFT OVER TRAVEL Note)	Warning 3	See Remedy
4105	+5 SOFT OVER TRAVEL	Warning 3	See Remedy
4106	+6 SOFT OVER TRAVEL	Warning 3	See Remedy
4107	+7 SOFT OVER TRAVEL	Warning 3	See Remedy
4108	+8 SOFT OVER TRAVEL	Warning 3	See Remedy
4111	-X SOFT OVER TRAVEL	Warning 3	See Remedy
4112	-Y SOFT OVER TRAVEL	Warning 3	See Remedy
4113	-Z SOFT OVER TRAVEL	Warning 3	See Remedy
4114	-C SOFT OVER TRAVEL Note)	Warning 3	See Remedy
4115	-5 SOFT OVER TRAVEL	Warning 3	See Remedy
4116	-6 SOFT OVER TRAVEL	Warning 3	See Remedy
4117	-7 SOFT OVER TRAVEL	Warning 3	See Remedy
4118	-8 SOFT OVER TRAVEL	Warning 3	See Remedy

Causes: While the soft limit is valid, the axis is moved out the soft limit area in automatic or manual operation.

Remedy: In the manual mode (JOG or STEP), move the axis in reverse direction of over travel.

Note) For machine types BX3 and EDBV3 / 8, the 4104: +W SOFT OVER TRAVEL, 4114: -W SOFT OVER TRAVEL occurs.

A4125 A4133

No.	Name	Level	Reset
4125	+ W INTERFERENCE AREA	Warning 3	WARN RESET
4133	- Z INTERFERENCE AREA	Warning 3	WARN RESET

(Option)

Description: This message is displayed if manual operation interlocking function for the middle guide unit operated.

Causes: The message display depends on the setting of the machine parameter No.0761 "MIDDLE GUIDE MAN OPE INTERLOCK".

Remedy: Beware of the interference between spindle chuck and guide when moving the axis by manual operation. In such a case, open the upper guide and lower guide of the middle guide unit at the lower limit position. For automatic operation, however, return the middle guide unit to the home position and restart automatic operation.

If the setting of machine parameter No.0761 "MIDDLE GUIDE MAN OPE INTERLOCK" was changed, switch the mode to other than MAN RUN mode such as MDI RUN or MEM RUN mode once, then select again the MAN RUN mode.

A4135

No.	Name	Level	Reset
4135	- W INTERFERENCE AREA	Warning 3	WARN RESET

(Option)

Description: This warning occurs along with the warning message [2150: PROTECTION SENSOR ON (MIDDLE GUIDE)] when the middle guide protection sensor operated.

The W axis movement in – direction is disabled.

Causes: The middle guide protection sensor turned on.

Remedy: In the event of this alarm during the machining, move down the work tank and turn on the [FLUID] key again to make sure that the machining part of the work piece is submerged completely in the dielectric fluid, then continue the operation. Also for other cases, lower the work tank or raise the W axis to make recovery.

A5001 A5008

No.	Name	Level	Reset
5001	X NON REGISTRY ALARM	Alarm 3	RESET
5002	Y NON REGISTRY ALARM	Alarm 3	RESET
5003	Z NON REGISTRY ALARM	Alarm 3	RESET
5004	C NON REGISTRY ALARM Note)	Alarm 3	RESET
5005	5 NON REGISTRY ALARM	Alarm 3	RESET
5006	6 NON REGISTRY ALARM	Alarm 3	RESET
5007	7 NON REGISTRY ALARM	Alarm 3	RESET
5008	8 NON REGISTRY ALARM	Alarm 3	RESET

Description: Non-registered servo amplifier alarm occurred.

Causes:

- (1) The defective brains part.
- (2) The defective servo amplifier.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Replace the brains part.
- (2) Replace the servo amplifier.

Note) For machine types BX3 and EDBV3 / 8, the 5004: W NON REGISTRY ALARM occurs.

A5011 A5018

No.	Name	Level	Reset
5011	X P FEEDBACK PULSE ERROR	Alarm 3	RESET
5012	Y P FEEDBACK PULSE ERROR	Alarm 3	RESET
5013	Z P FEEDBACK PULSE ERROR	Alarm 3	RESET
5014	C P FEEDBACK PULSE ERROR Note)	Alarm 3	RESET
5015	5 P FEEDBACK PULSE ERROR	Alarm 3	RESET
5016	6 P FEEDBACK PULSE ERROR	Alarm 3	RESET
5017	7 P FEEDBACK PULSE ERROR	Alarm 3	RESET
5018	8 P FEEDBACK PULSE ERROR	Alarm 3	RESET

Description: [16] Encoder error 1. Communication error occurred between encoder and servo amplifier.

Causes:

- (1) Encoder fault.
- (2) Encoder cable faulty. (Wire broken or shorted)

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Check the connection.
- (2) Replace the cable.
- (3) Replace the servo amplifier.

Note) For machine types BX3 and EDBV3 / 8, the 5014: W P FEEDBACK PULSE ERROR occurs.

A5021 A5028

No.	Name	Level	Reset
5021	X ENCODER PULSE ERROR	Alarm 3	RESET
5022	Y ENCODER PULSE ERROR	Alarm 3	RESET
5023	Z ENCODER PULSE ERROR	Alarm 3	RESET
5024	C ENCODER PULSE ERROR Note)	Alarm 3	RESET
5025	5 ENCODER PULSE ERROR	Alarm 3	RESET
5026	6 ENCODER PULSE ERROR	Alarm 3	RESET
5027	7 ENCODER PULSE ERROR	Alarm 3	RESET
5028	8 ENCODER PULSE ERROR	Alarm 3	RESET

Description: [20] Encoder error 2. Communication error occurred between encoder and servo amplifier.

Causes:

- (1) Encoder fault.
- (2) Encoder cable faulty. (Wire breakage or shorted)

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Check the connection.
- (2) Replace the cable.
- (3) Replace the servo amplifier.

Note) For machine types BX3 and EDBV3 / 8, the 5024: W ENCODER PULSE ERROR occurs.

A5051 A5058

No.	Name	Level	Reset
5051	X CIRCUIT PROTECTOR OFF	Warning 3	WARN RESET
5052	Y CIRCUIT PROTECTOR OFF	Warning 3	WARN RESET
5053	Z CIRCUIT PROTECTOR OFF	Warning 3	WARN RESET
5054	C CIRCUIT PROTECTOR OFF Note)	Warning 3	WARN RESET
5055	5 CIRCUIT PROTECTOR OFF	Warning 3	WARN RESET
5056	6 CIRCUIT PROTECTOR OFF	Warning 3	WARN RESET
5057	7 CIRCUIT PROTECTOR OFF	Warning 3	WARN RESET
5058	8 CIRCUIT PROTECTOR OFF	Warning 3	WARN RESET

Description: [E9] The main circuit OFF warning. Servo signal (SON) was turned on in the state of the main circuit power supply OFF.

Causes:

- (1) Defective power supply of the main circuit or the cable.
- (2) Failure of servo amplifier.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Check the connection, cable and output voltage of the power supply.
- (2) Replace the servo amplifier.

Note) For machine types BX3 and EDBV3 / 8, the 5054: W CIRCUIT PROTECTOR OFF occurs.

A5061 A5068

No.	Name	Level	Reset
5061	X TRANSISTOR OVERHEAT	Alarm 3	RESET
5062	Y TRANSISTOR OVERHEAT	Alarm 3	RESET
5063	Z TRANSISTOR OVERHEAT	Alarm 3	RESET
5064	C TRANSISTOR OVERHEAT Note)	Alarm 3	RESET
5065	5 TRANSISTOR OVERHEAT	Alarm 3	RESET
5066	6 TRANSISTOR OVERHEAT	Alarm 3	RESET
5067	7 TRANSISTOR OVERHEAT	Alarm 3	RESET
5068	8 TRANSISTOR OVERHEAT	Alarm 3	RESET

Description: [45] The main circuit element overheating. The main circuit carried out unusual overheating.

Causes:

- (1) Servo amplifier faulty.
- (2) The power supply was turned on and off continuously by overloaded status.
- (3) The cooling fan of servo amplifier has stopped.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Exchange of a servo amplifier.
- (2) The operation method is looked over again.
- (3) Reduce the circumference temperature.

Note) For machine types BX3 and EDBV3 / 8, the 5064: W TRANSISTOR OVERHEAT occurs.

A5071 A5078

No.	Name	Level	Reset
5071	X REGENERATIVE RESISTANCE OVERHEAT	Alarm 3	RESET
5072	Y REGENERATIVE RESISTANCE OVERHEAT	Alarm 3	RESET
5073	Z REGENERATIVE RESISTANCE OVERHEAT	Alarm 3	RESET
5074	C REGENERATIVE RESISTANCE OVERHEAT Note)	Alarm 3	RESET
5075	5 REGENERATIVE RESISTANCE OVERHEAT	Alarm 3	RESET
5076	6 REGENERATIVE RESISTANCE OVERHEAT	Alarm 3	RESET
5077	7 REGENERATIVE RESISTANCE OVERHEAT	Alarm 3	RESET
5078	8 REGENERATIVE RESISTANCE OVERHEAT	Alarm 3	RESET

Description: [30] The abnormalities in regeneration.

- (1) Regeneration electric power exceeded the permission.
- (2) Regeneration transistor faulty.

Causes:

- (1) Mismatch between used regenerative brake option and parameter setting or Defective connection.
- (2) High-duty operation or continuous regenerative operation caused the permissible regenerative power of the regenerative brake option to be exceeded.
- (3) Power supply voltage is abnormal.
- (4) Defective built in regenerative brake resistor or regenerative brake option.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Check the parameter setting and connection.
- (2) Reduce the frequency of positioning or the load.
- (3) Replace the regenerative option. Or change it into a larger capacity.

Note) For machine types BX3 and EDBV3/8, the 5074:W REGENERATIVE RESISTANCE OVERHEAT occurs.

A5081 A5088

No.	Name	Level	Reset
5081	X EXCESSIVE REGENERATIVE WARNING	Warning 3	WARN RESET
5082	Y EXCESSIVE REGENERATIVE WARNING	Warning 3	WARN RESET
5083	Z EXCESSIVE REGENERATIVE WARNING	Warning 3	WARN RESET
5084	C EXCESSIVE REGENERATIVE WARNING Note)	Warning 3	WARN RESET
5085	5 EXCESSIVE REGENERATIVE WARNING	Warning 3	WARN RESET
5086	6 EXCESSIVE REGENERATIVE WARNING	Warning 3	WARN RESET
5087	7 EXCESSIVE REGENERATIVE WARNING	Warning 3	WARN RESET
5088	8 EXCESSIVE REGENERATIVE WARNING	Warning 3	WARN RESET

Description: [E0] Excessive regenerative warning. Regenerative power may exceed permissible regenerative power of built-in regenerative brake resistor or regenerative break option.

Causes: Regenerative power increased to 85% or more of permissible regenerative brake resistor or regenerative brake option.

Remedy: In case of frequent occurrence, contact us of the trouble procedure.

- (1) Check the parameter setting and connection.
- (2) Reduce frequency or make load smaller.
- (3) Replace the regenerative brake option for the one with larger capacity.

Note) For machine types BX3 and EDBV3 / 8, the 5084: W EXCESSIVE REGENERATIVE WARNING occurs.

A5091 A5098

No.	Name	Level	Reset
5091	X CONVERTER LOW VOLTAGE	Alarm 3	RESET
5092	Y CONVERTER LOW VOLTAGE	Alarm 3	RESET
5093	Z CONVERTER LOW VOLTAGE	Alarm 3	RESET
5094	C CONVERTER LOW VOLTAGE Note)	Alarm 3	RESET
5095	5 CONVERTER LOW VOLTAGE	Alarm 3	RESET
5096	6 CONVERTER LOW VOLTAGE	Alarm 3	RESET
5097	7 CONVERTER LOW VOLTAGE	Alarm 3	RESET
5098	8 CONVERTER LOW VOLTAGE	Alarm 3	RESET

Description: [10] Under voltage. Power supply voltage dropped.

Causes:

- (1) Power supply voltage is low or capacity is insufficient.
- (2) There was an instantaneous control circuit power failure of 60ms or longer.
- (3) Failure parts in the servo amplifier.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Review power supply.
- (2) Replace the servo amplifier.

Note) For machine types BX3 and EDBV3 / 8, the 5094: W CONVERTER LOW VOLTAGE occurs.

A5101 A5108

No.	Name	Level	Reset
5101	X MOTOR OVERHEAT	Alarm 3	RESET
5102	Y MOTOR OVERHEAT	Alarm 3	RESET
5103	Z MOTOR OVERHEAT	Alarm 3	RESET
5104	C MOTOR OVERHEAT Note)	Alarm 3	RESET
5105	5 MOTOR OVERHEAT	Alarm 3	RESET
5106	6 MOTOR OVERHEAT	Alarm 3	RESET
5107	7 MOTOR OVERHEAT	Alarm 3	RESET
5108	8 MOTOR OVERHEAT	Alarm 3	RESET

Description: [46] Servo motor overheats. Servo motor temperature rise actuated the thermal protector.

Causes:

- (1) Ambient temperature of servo motor is over 40 degree C.
- (2) The servo motor is overload.
- (3) Thermal protector in encoder is faulty.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Review environment so that ambient temperature is 0-40 degree C.
- (2) Reduce load or review the operation pattern.
- (3) Replace the servo motor.

Note) For machine types BX3 and EDBV3 / 8, the 5104: W MOTOR OVERHEAT occurs.

A5111 A5118

No.	Name	Level	Reset
5111	X COOLING FAN ERROR	Alarm 3	RESET
5112	Y COOLING FAN ERROR	Alarm 3	RESET
5113	Z COOLING FAN ERROR	Alarm 3	RESET
5114	C COOLING FAN ERROR Note)	Alarm 3	RESET
5115	5 COOLING FAN ERROR	Alarm 3	RESET
5116	6 COOLING FAN ERROR	Alarm 3	RESET
5117	7 COOLING FAN ERROR	Alarm 3	RESET
5118	8 COOLING FAN ERROR	Alarm 3	RESET

Description: [47] The rotational speed of the cooling fan of the servo amplifier has dropped.

The fan rotational speed has fallen below the alarm trigger level.

Causes: A foreign object is interfering with the cooling fan.

The servo amplifier has failed.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

Note) For machine types BX3 and EDBV3 / 8, the 5114: W COOLING FAN ERROR occurs.

A5121 A5128

No.	Name	Level	Reset
5121	X COOLING FAN SPEED REDUCTION WARNING	Warning 1	RESET
5122	Y COOLING FAN SPEED REDUCTION WARNING	Warning 1	RESET
5123	Z COOLING FAN SPEED REDUCTION WARNING	Warning 1	RESET
5124	C COOLING FAN SPEED REDUCTION WARNING Note)	Warning 1	RESET
5125	5 COOLING FAN SPEED REDUCTION WARNING	Warning 1	RESET
5126	6 COOLING FAN SPEED REDUCTION WARNING	Warning 1	RESET
5127	7 COOLING FAN SPEED REDUCTION WARNING	Warning 1	RESET
5128	8 COOLING FAN SPEED REDUCTION WARNING	Warning 1	RESET

Description: [E8] The fan rotational speed has fallen below the warning trigger level.

Causes: A foreign object is interfering with the cooling fan. The servo amplifier has failed.

Remedy: In case of frequent occurrence, contact us of the trouble procedure.

Note) For machine types BX3 and EDBV3 / 8, the 5124: W COOLING FAN SPEED REDUCTION WARNING occurs.

A5141 A5148

No.	Name	Level	Reset
5141	X CRC ERROR	Alarm 3	RESET
5142	Y CRC ERROR	Alarm 3	RESET
5143	Z CRC ERROR	Alarm 3	RESET
5144	C CRC ERROR Note)	Alarm 3	RESET
5145	5 CRC ERROR	Alarm 3	RESET
5146	6 CRC ERROR	Alarm 3	RESET
5147	7 CRC ERROR	Alarm 3	RESET
5148	8 CRC ERROR	Alarm 3	RESET

Description: [34] SSCNET Receive Data error.

Causes:

- (1) Bus cable disconnected or fault.
- (2) The terminate connector disconnected.
- (3) The same No. exists in the servo amplifier side axis setting.
- (4) Noise enters bus cable.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Check connection or replace the cable.
- (2) Check the axial setup of servo amplifier.
- (3) Take measures against the noise.

Note) For machine types BX3 and EDBV3 / 8, the 5144: W CRC ERROR occurs.

A5171 A5178

No.	Name	Level	Reset
5171	X BOARD ERROR	Alarm 3	RESET
5172	Y BOARD ERROR	Alarm 3	RESET
5173	Z BOARD ERROR	Alarm 3	RESET
5174	C BOARD ERROR Note)	Alarm 3	RESET
5175	5 BOARD ERROR	Alarm 3	RESET
5176	6 BOARD ERROR	Alarm 3	RESET
5177	7 BOARD ERROR	Alarm 3	RESET
5178	8 BOARD ERROR	Alarm 3	RESET

Description: [17] Board error. CPU/Parts fault.

Causes: Faulty parts in the servo amplifier.

Remedy: In case of frequent occurrence, contact us about the trouble procedure. Replace the servo amplifier.

Note) For machine types BX3 and EDBV3 / 8, the 5174: W BOARD ERROR occurs.

A5181 A5188

No.	Name	Level	Reset
5181	X CLOCK ERROR	Alarm 3	RESET
5182	Y CLOCK ERROR	Alarm 3	RESET
5183	Z CLOCK ERROR	Alarm 3	RESET
5184	C CLOCK ERROR Note)	Alarm 3	RESET
5185	5 CLOCK ERROR	Alarm 3	RESET
5186	6 CLOCK ERROR	Alarm 3	RESET
5187	7 CLOCK ERROR	Alarm 3	RESET
5188	8 CLOCK ERROR	Alarm 3	RESET

Description: [13] Clock error. The printed board fault.

Causes: Faulty parts in the servo amplifier.

Remedy: In case of frequent occurrence, contact us about the trouble procedure. Replace the servo amplifier.

Note) For machine types BX3 and EDBV3 / 8, the 5184: W CLOCK ERROR occurs.

A5221 A5228

No.	Name	Level	Reset
5221	X CONVERTER OVER CURRENT	Alarm 3	RESET
5222	Y CONVERTER OVER CURRENT	Alarm 3	RESET
5223	Z CONVERTER OVER CURRENT	Alarm 3	RESET
5224	C CONVERTER OVER CURRENT Note)	Alarm 3	RESET
5225	5 CONVERTER OVER CURRENT	Alarm 3	RESET
5226	6 CONVERTER OVER CURRENT	Alarm 3	RESET
5227	7 CONVERTER OVER CURRENT	Alarm 3	RESET
5228	8 CONVERTER OVER CURRENT	Alarm 3	RESET

Description: [32] Over-current. The current of servo amplifier is more than the permission.

Causes:

- (1) Short occurred in servo amplifier output phases U, V and W or ground fault.
- (2) Transistor of the servo amplifier faulty.
- (3) External noise caused the over current detection circuit to work.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Check the wiring.
- (2) Replace the servo amplifier.
- (3) Take noise suppression measures.

Note) For machine types BX3 and EDBV3 / 8, the 5224: W CONVERTER OVER CURRENT occurs.

A5241 A5248

No.	Name	Level	Reset
5241	X CONVERTER OVER VOLTAGE	Alarm 3	RESET
5242	Y CONVERTER OVER VOLTAGE	Alarm 3	RESET
5243	Z CONVERTER OVER VOLTAGE	Alarm 3	RESET
5244	C CONVERTER OVER VOLTAGE Note)	Alarm 3	RESET
5245	5 CONVERTER OVER VOLTAGE	Alarm 3	RESET
5246	6 CONVERTER OVER VOLTAGE	Alarm 3	RESET
5247	7 CONVERTER OVER VOLTAGE	Alarm 3	RESET
5248	8 CONVERTER OVER VOLTAGE	Alarm 3	RESET

Description: [33] Over voltage. Converter bus voltage exceeded 400V.

Causes:

- (1) Regenerative brake option is not used or though the regenerative brake option is used, the parameter setting is not correct.
- (2) Lead of built-in regenerative brake resistor or regenerative brake option is open or disconnected.
- (3) The regenerative transistor faulty.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Use the regenerative brake option or set the parameter correctly.
- (2) Check the connection of a regenerative option.
- (3) Replace the servo amplifier or a regenerative option.

Note) For machine types BX3 and EDBV3 / 8, the 5244: W CONVERTER OVER VOLTAGE occurs.

A5251 A5258

No.	Name	Level	Reset
5251	X WATCHDOG ALARM	Alarm 3	RESET
5252	Y WATCHDOG ALARM	Alarm 3	RESET
5253	Z WATCHDOG ALARM	Alarm 3	RESET
5254	C WATCHDOG ALARM Note)	Alarm 3	RESET
5255	5 WATCHDOG ALARM	Alarm 3	RESET
5256	6 WATCHDOG ALARM	Alarm 3	RESET
5257	7 WATCHDOG ALARM	Alarm 3	RESET
5258	8 WATCHDOG ALARM	Alarm 3	RESET

Description: [88] Watchdog. CPU, parts faulty.

Causes: Fault of the parts in servo amplifier.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

Replace the servo amplifier.A5261, A5262,

Note) For machine types BX3 and EDBV3 / 8, the 5254: W WATCHDOG ALARM occurs.

A5261 A5268

No.	Name	Level	Reset
5261	X CONTROLLER EMERGENCY STOP WARNING	Warning 3	WARN RESET
5262	Y CONTROLLER EMERGENCY STOP WARNING	Warning 3	WARN RESET
5263	Z CONTROLLER EMERGENCY STOP WARNING	Warning 3	WARN RESET
5264	C CONTROLLER EMERGENCY STOP WARNING Note)	Warning 3	WARN RESET
5265	5 CONTROLLER EMERGENCY STOP WARNING	Warning 3	WARN RESET
5266	6 CONTROLLER EMERGENCY STOP WARNING	Warning 3	WARN RESET
5267	7 CONTROLLER EMERGENCY STOP WARNING	Warning 3	WARN RESET
5268	8 CONTROLLER EMERGENCY STOP WARNING	Warning 3	WARN RESET

Description: [E7] Controller emergency stop warning. The emergency stop from a brains part became effective.

Causes: Emergency stop instructions came from the brains part.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

(1) It is a re-injection about a power supply.

(2) Replace the brains part or servo amplifier.

(3) The measure against noise.

Note) For machine types BX3 and EDBV3 / 8, the 5264: W CONTROLLER EMERGENCY STOP WARNING occurs.

A5271 A5278

No.	Name	Level	Reset
5271	X BUS ERROR	Alarm 3	RESET
5272	Y BUS ERROR	Alarm 3	RESET
5273	Z BUS ERROR	Alarm 3	RESET
5274	C BUS ERROR Note)	Alarm 3	RESET
5275	5 BUS ERROR	Alarm 3	RESET
5276	6 BUS ERROR	Alarm 3	RESET
5277	7 BUS ERROR	Alarm 3	RESET
5278	8 BUS ERROR	Alarm 3	RESET

Description: [36] Transfer error. Bus cable or PCB faulty.

Causes:

- (1) The bus cable is disconnected or fault.
- (2) The termination connector disconnected.
- (3) Defective printed board.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Check the connection or replace the cable.
- (2) Replace the servo amplifier.

Note) For machine types BX3 and EDBV3 / 8, the 5274: W BUS ERROR occurs.

A5331 A5338

No.	Name	Level	Reset
5331	X DROOP OVER	Alarm 3	RESET
5332	Y DROOP OVER	Alarm 3	RESET
5333	Z DROOP OVER	Alarm 3	RESET
5334	C DROOP OVER Note)	Alarm 3	RESET
5335	5 DROOP OVER	Alarm 3	RESET
5336	6 DROOP OVER	Alarm 3	RESET
5337	7 DROOP OVER	Alarm 3	RESET
5338	8 DROOP OVER	Alarm 3	RESET

Description: [52] Error excessive. Droop pulse value of the deviation counter exceeded the value of parameter No. *563.

Causes:

- (1) Failure or poor connection of an encoder.
- (2) The axis was locked.
- (3) The poor setting of a servo parameter

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Investigate the operation method.
- (2) Replace the servo amplifier or motor.
- (3) Re-set the servo parameter.

Note) For machine types BX3 and EDBV3 / 8, the 5334: W DROOP OVER occurs.

A5361 A5368

No.	Name	Level	Reset
5361	X MOTOR SPEED OVER	Alarm 3	RESET
5362	Y MOTOR SPEED OVER	Alarm 3	RESET
5363	Z MOTOR SPEED OVER	Alarm 3	RESET
5364	C MOTOR SPEED OVER Note)	Alarm 3	RESET
5365	5 MOTOR SPEED OVER	Alarm 3	RESET
5366	6 MOTOR SPEED OVER	Alarm 3	RESET
5367	7 MOTOR SPEED OVER	Alarm 3	RESET
5368	8 MOTOR SPEED OVER	Alarm 3	RESET

Description: [31] Over speed. Speed has exceeded the instantaneous permissible speed.

Causes:

- (1) The poor setting of a servo parameter.
- (2) Encoder faulty.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Re-set the servo parameter.
- (2) Replace the encoder (motor).

Note) For machine types BX3 and EDBV3 / 8, the 5364: W MOTOR SPEED OVER occurs.

A5371 A5378

No.	Name	Level	Reset
5371	X P FEEDBACK BREAK	Alarm 3	RESET
5372	Y P FEEDBACK BREAK	Alarm 3	RESET
5373	Z P FEEDBACK BREAK	Alarm 3	RESET
5374	C P FEEDBACK BREAK Note)	Alarm 3	RESET
5375	5 P FEEDBACK BREAK	Alarm 3	RESET
5376	6 P FEEDBACK BREAK	Alarm 3	RESET
5377	7 P FEEDBACK BREAK	Alarm 3	RESET
5378	8 P FEEDBACK BREAK	Alarm 3	RESET

Description: [1E] An encoder is malfunctioning.

Causes:

- (1) Encoder malfunction.
- (2) Influence of noise

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

Note) For machine types BX3 and EDBV3 / 8, the 5374: W P FEEDBACK BREAK occurs.

A5391 A5398

No.	Name	Level	Reset
5391	X ABSOLUTE POSITION ERASE	Alarm 3	RESET
5392	Y ABSOLUTE POSITION ERASE	Alarm 3	RESET
5393	Z ABSOLUTE POSITION ERASE	Alarm 3	RESET
5394	C ABSOLUTE POSITION ERASE Note)	Alarm 3	RESET
5395	5 ABSOLUTE POSITION ERASE	Alarm 3	RESET
5396	6 ABSOLUTE POSITION ERASE	Alarm 3	RESET
5397	7 ABSOLUTE POSITION ERASE	Alarm 3	RESET
5398	8 ABSOLUTE POSITION ERASE	Alarm 3	RESET

Description: [25] Absolute position erases. Absolute position data in error.

Causes:

- (1) Battery voltage low.
- (2) Defective battery or battery cable.
- (3) The super capacitor of the absolute position encoder is not charged.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

Replace battery and set the origin.

Note) For machine types BX3 and EDBV3 / 8, the 5394: W ABSOLUTE POSITION ERASE occurs.

A5401 A5408

No.	Name	Level	Reset
5401	X ABSOLUTE POSITION COUNTER WARNING	Warning 1	WARN RESET
5402	Y ABSOLUTE POSITION COUNTER WARNING	Warning 1	WARN RESET
5403	Z ABSOLUTE POSITION COUNTER WARNING	Warning 1	WARN RESET
5404	C ABSOLUTE POSITION COUNTER WARNING Note)	Warning 1	WARN RESET
5405	5 ABSOLUTE POSITION COUNTER WARNING	Warning 1	WARN RESET
5406	6 ABSOLUTE POSITION COUNTER WARNING	Warning 1	WARN RESET
5407	7 ABSOLUTE POSITION COUNTER WARNING	Warning 1	WARN RESET
5408	8 ABSOLUTE POSITION COUNTER WARNING	Warning 1	WARN RESET

Description: [E3] Absolute position counters warning. Absolute position encoder pulse faulty.

Causes:

- (1) The noise entered the encoder.
- (2) Encoder faulty.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Take noise suppression measures.
- (2) Replace servo motor.

Note) For machine types BX3 and EDBV3 / 8, the 5404: W ABSOLUTE POSITION COUNTER WARNING occurs.

A5411 A5418

No.	Name	Level	Reset
5411	X OVERLOAD2	Alarm 3	RESET
5412	Y OVERLOAD2	Alarm 3	RESET
5413	Z OVERLOAD2	Alarm 3	RESET
5414	C OVERLOAD2 Note)	Alarm 3	RESET
5415	5 OVERLOAD2	Alarm 3	RESET
5416	6 OVERLOAD2	Alarm 3	RESET
5417	7 OVERLOAD2	Alarm 3	RESET
5418	8 OVERLOAD2	Alarm 3	RESET

Description: [51] Overload2. Machine collision or the like caused max output current to flow successively for several seconds. Servo motor locked for 1s or more.

Causes:

- (1) The machine struck something.
- (2) The wrong connection of servo motor. Or encoder faulty.
- (3) The poor setting of a servo parameter.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Review operation pattern.
- (2) Check connection. Or replace encoder (motor).
- (3) Re-set servo parameter.

Note) For machine types BX3 and EDBV3 / 8, the 5414: W OVERLOAD2 occurs.

A5421 A5428

No.	Name	Level	Reset
5421	X MOTOR COMBINATION ERROR	Alarm 3	RESET
5422	Y MOTOR COMBINATION ERROR	Alarm 3	RESET
5423	Z MOTOR COMBINATION ERROR	Alarm 3	RESET
5424	C MOTOR COMBINATION ERROR Note)	Alarm 3	RESET
5425	5 MOTOR COMBINATION ERROR	Alarm 3	RESET
5426	6 MOTOR COMBINATION ERROR	Alarm 3	RESET
5427	7 MOTOR COMBINATION ERROR	Alarm 3	RESET
5428	8 MOTOR COMBINATION ERROR	Alarm 3	RESET

Description: [1A] Motor combination error. The wrong combination of servo motor and servo amplifier.

Causes:

- (1) Defective encoder cable.
- (2) Wrong combination of servo amplifier and servo motor.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Check or replace encoder cable.
- (2) Use correct combination.

Note) For machine types BX3 and EDBV3 / 8, the 5424: W MOTOR COMBINATION ERROR occurs.

A5431 A5438

No.	Name	Level	Reset
5431	X INITIAL MAGNETIC POLE DETECTION ERROR	Alarm 3	RESET
5432	Y INITIAL MAGNETIC POLE DETECTION ERROR	Alarm 3	RESET
5433	Z INITIAL MAGNETIC POLE DETECTION ERROR	Alarm 3	RESET
5434	C INITIAL MAGNETIC POLE DETECTION ERROR Note)	Alarm 3	RESET
5435	5 INITIAL MAGNETIC POLE DETECTION ERROR	Alarm 3	RESET
5436	6 INITIAL MAGNETIC POLE DETECTION ERROR	Alarm 3	RESET
5437	7 INITIAL MAGNETIC POLE DETECTION ERROR	Alarm 3	RESET
5438	8 INITIAL MAGNETIC POLE DETECTION ERROR	Alarm 3	RESET

Description: [27] Initial magnetic pole detection error. Initial magnetic pole detection did not operate normally.

Causes: The poor setting of a servo parameter.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

Servo parameter re-setup.

Note) For machine types BX3 and / 8, t EDBV3 he 5434: W INITIAL MAGNETIC POLE DETECTION ERROR occurs.

A5441 A5448

No.	Name	Level	Reset
5441	X FULL CLOSED DETECTION ERROR2	Alarm 3	RESET
5442	Y FULL CLOSED DETECTION ERROR2	Alarm 3	RESET
5443	Z FULL CLOSED DETECTION ERROR2	Alarm 3	RESET
5444	C FULL CLOSED DETECTION ERROR2 Note)	Alarm 3	RESET
5445	5 FULL CLOSED DETECTION ERROR2	Alarm 3	RESET
5446	6 FULL CLOSED DETECTION ERROR2	Alarm 3	RESET
5447	7 FULL CLOSED DETECTION ERROR2	Alarm 3	RESET
5448	8 FULL CLOSED DETECTION ERROR2	Alarm 3	RESET

Description: [28] Full closed detection error2. The margin of a linear scale deteriorated.

Causes:

- (1) The temperature of a linear scale is high.
- (2) The fall of the signal level of a linear scale.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

Check the attachment state of a linear scale.

Note) For machine types BX3 and EDBV3 / 8, the 5444: W FULL CLOSED DETECTION ERROR2 occurs.

A5451 A5458

No.	Name	Level	Reset
5451	X FULL CLOSED DETECTION ERROR1	Alarm 3	RESET
5452	Y FULL CLOSED DETECTION ERROR1	Alarm 3	RESET
5453	Z FULL CLOSED DETECTION ERROR1	Alarm 3	RESET
5454	C FULL CLOSED DETECTION ERROR1 Note)	Alarm 3	RESET
5455	5 FULL CLOSED DETECTION ERROR1	Alarm 3	RESET
5456	6 FULL CLOSED DETECTION ERROR1	Alarm 3	RESET
5457	7 FULL CLOSED DETECTION ERROR1	Alarm 3	RESET
5458	8 FULL CLOSED DETECTION ERROR1	Alarm 3	RESET

Description: [2A] Full closed detection error1. Full closed detection faulty.

Causes:

- (1) Full closed detection or a linear scale fault.
- (2) Speed surpassed the specification range of a linear scale.
- (3) A linear scale and the poor attachment of a detection head.
- (4) Noise.
- (5) The alarm output of a linear scale is detected.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Check the connection, and the operation pattern.
- (2) Take measures against noise.
- (3) Replace the linear scale.

Note) For machine types BX3 and EDBV3 / 8, the 5454: W FULL CLOSED DETECTION ERROR1 occurs.

A5461 A5468

No.	Name	Level	Reset
5461	X FULL CLOSED CONTROLE ERROR	Alarm 3	RESET
5462	Y FULL CLOSED CONTROLE ERROR	Alarm 3	RESET
5463	Z FULL CLOSED CONTROLE ERROR	Alarm 3	RESET
5464	C FULL CLOSED CONTROLE ERROR Note)	Alarm 3	RESET
5465	5 FULL CLOSED CONTROLE ERROR	Alarm 3	RESET
5466	6 FULL CLOSED CONTROLE ERROR	Alarm 3	RESET
5467	7 FULL CLOSED CONTROLE ERROR	Alarm 3	RESET
5468	8 FULL CLOSED CONTROLE ERROR	Alarm 3	RESET

Description: [42] The servo control error occurred.

Causes:

- (1) The poor setting of a servo parameter.
- (2) Failure of a linear scale.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Servo parameter re-setup.
- (2) Replace the linear scale.

Note) For machine types BX3 and EDBV3 / 8, the 5464: W FULL CLOSED CONTROLE ERROR occurs.

A5471 A5478

No.	Name	Level	Reset
5471	X FULL CLOSED COMMUNICATION ERROR1	Alarm 3	RESET
5472	Y FULL CLOSED COMMUNICATION ERROR1	Alarm 3	RESET
5473	Z FULL CLOSED COMMUNICATION ERROR1	Alarm 3	RESET
5474	C FULL CLOSED COMMUNICATION ERROR1 Note)	Alarm 3	RESET
5475	5 FULL CLOSED COMMUNICATION ERROR1	Alarm 3	RESET
5476	6 FULL CLOSED COMMUNICATION ERROR1	Alarm 3	RESET
5477	7 FULL CLOSED COMMUNICATION ERROR1	Alarm 3	RESET
5478	8 FULL CLOSED COMMUNICATION ERROR1	Alarm 3	RESET

Description: [70] An error occurs in the initial communication between the encoder and the servo amplifier.

Causes:

- (1) The encoder cable is malfunctioning.
- (2) The servo amplifier is malfunctioning.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Check the connection.
- (2) Replace the servo amplifier unit and a cable.

Note) For machine types BX3 and EDBV3 / 8, the 5474: W FULL CLOSED COMMUNICATION ERROR1 occurs.

A5481 A5488

No.	Name	Level	Reset
5481	X FULL CLOSED COMMUNICATION ERROR2	Alarm 3	RESET
5482	Y FULL CLOSED COMMUNICATION ERROR2	Alarm 3	RESET
5483	Z FULL CLOSED COMMUNICATION ERROR2	Alarm 3	RESET
5484	C FULL CLOSED COMMUNICATION ERROR2 Note)	Alarm 3	RESET
5485	5 FULL CLOSED COMMUNICATION ERROR2	Alarm 3	RESET
5486	6 FULL CLOSED COMMUNICATION ERROR2	Alarm 3	RESET
5487	7 FULL CLOSED COMMUNICATION ERROR2	Alarm 3	RESET
5488	8 FULL CLOSED COMMUNICATION ERROR2	Alarm 3	RESET

Description: [71] An error occurs in the communication between the encoder and the servo amplifier..

Causes:

- (1) The encoder cable is malfunctioning.
- (2) The servo amplifier is malfunctioning.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Replace the servo amplifier unit or the cable.

Note) For machine types BX3 and EDBV3 / 8, the 5484: W FULL CLOSED COMMUNICATION ERROR2 occurs.

A5491 A5498

No.	Name	Level	Reset
5491	X PEAK CURRENT OVER 1	Alarm 3	RESET
5492	Y PEAK CURRENT OVER 1	Alarm 3	RESET
5493	Z PEAK CURRENT OVER 1	Alarm 3	RESET
5494	C PEAK CURRENT OVER 1 Note)	Alarm 3	RESET
5495	5 PEAK CURRENT OVER 1	Alarm 3	RESET
5496	6 PEAK CURRENT OVER 1	Alarm 3	RESET
5497	7 PEAK CURRENT OVER 1	Alarm 3	RESET
5498	8 PEAK CURRENT OVER 1	Alarm 3	RESET

Description: [50] Overload 1. Load exceeded overload protection characteristic of servo amplifier.

Causes:

- (1) Servo amplifier is used in excess of its continuous output current.
- (2) Servo system is instable and hunting.
- (3) The poor setting of a servo parameter.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Review operation pattern.
- (2) Replace the servo motor and the servo amplifier.
- (3) Re-set servo parameter.

Note) For machine types BX3 and EDBV3 / 8, the 5494: W PEAK CURRENT OVER 1 occurs.

A5531 A5538

No.	Name	Level	Reset
5531	X MAIN CIRCUIT ERROR	Alarm 3	RESET
5532	Y MAIN CIRCUIT ERROR	Alarm 3	RESET
5533	Z MAIN CIRCUIT ERROR	Alarm 3	RESET
5534	C MAIN CIRCUIT ERROR Note)	Alarm 3	RESET
5535	5 MAIN CIRCUIT ERROR	Alarm 3	RESET
5536	6 MAIN CIRCUIT ERROR	Alarm 3	RESET
5537	7 MAIN CIRCUIT ERROR	Alarm 3	RESET
5538	8 MAIN CIRCUIT ERROR	Alarm 3	RESET

Description: [24] Main circuit error. Ground fault occurred at the servo motor outputs (U, V and W phases) of the servo amplifier.

Causes: The power supply input line and the servo motor output line touch on the main circuit terminal TE1.

Remedy: In case of frequent occurrence, contact us about the trouble procedure. Check the connection.

Note) For machine types BX3 and EDBV3 / 8, the 5534: W MAIN CIRCUIT ERROR occurs.

A5551 A5558

No.	Name	Level	Reset
5551	X SERVO MOTOR OVERHEAT WARNING	Warning 1	WARN RESET
5552	Y SERVO MOTOR OVERHEAT WARNING	Warning 1	WARN RESET
5553	Z SERVO MOTOR OVERHEAT WARNING	Warning 1	WARN RESET
5554	C SERVO MOTOR OVERHEAT WARNING Note)	Warning 1	WARN RESET
5555	5 SERVO MOTOR OVERHEAT WARNING	Warning 1	WARN RESET
5556	6 SERVO MOTOR OVERHEAT WARNING	Warning 1	WARN RESET
5557	7 SERVO MOTOR OVERHEAT WARNING	Warning 1	WARN RESET
5558	8 SERVO MOTOR OVERHEAT WARNING	Warning 1	WARN RESET

Description: [E2] Abnormal temperature of servo motor 2] may occur.

Causes: Servo motors overheat warning.

Remedy: Lower the ambient temperature. In case of frequent occurrence, contact us of the trouble procedure.

Note) For machine types BX3 and EDBV3 / 8, the 5554: W SERVO MOTOR OVERHEAT WARNING occurs.

A5561 A5568

No.	Name	Level	Reset
5561	X OVERHEAT WARNING 1	Warning 1	WARN RESET
5562	Y OVERHEAT WARNING 1	Warning 1	WARN RESET
5563	Z OVERHEAT WARNING 1	Warning 1	WARN RESET
5564	C OVERHEAT WARNING 1 Note)	Warning 1	WARN RESET
5565	5 OVERHEAT WARNING 1	Warning 1	WARN RESET
5566	6 OVERHEAT WARNING 1	Warning 1	WARN RESET
5567	7 OVERHEAT WARNING 1	Warning 1	WARN RESET
5568	8 OVERHEAT WARNING 1	Warning 1	WARN RESET

Description: [E1] Overload 1 or Overload 2 may occur.

Causes: The load was over 85% to the alarm level

Remedy: Check operation pattern. In case of frequent occurrence, contact us of the trouble procedure.

Note) For machine types BX3 and EDBV3 / 8, the 5564: W OVERHEAT WARNING 1 occurs.

A5571 A5578

No.	Name	Level	Reset
5571	X SPEED COMMAND OVER	Alarm 3	RESET
5572	Y SPEED COMMAND OVER	Alarm 3	RESET
5573	Z SPEED COMMAND OVER	Alarm 3	RESET
5574	C SPEED COMMAND OVER Note)	Alarm 3	RESET
5575	5 SPEED COMMAND OVER	Alarm 3	RESET
5576	6 SPEED COMMAND OVER	Alarm 3	RESET
5577	7 SPEED COMMAND OVER	Alarm 3	RESET
5578	8 SPEED COMMAND OVER	Alarm 3	RESET

Description: [35] Command frequency error. Input frequency of command pulse is too high.

Causes:

- (1) Command given is greater than the maximum speed of servo motor.
- (2) The noise entered bus cable.
- (3) Brains part failure.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Review operation program.
- (2) Take action against noise.
- (3) Replace brains part.

Note) For machine types BX3 and EDBV3 / 8, the 5574: W SPEED COMMAND OVER occurs.

A5581 A5588

No.	Name	Level	Reset
5581	X OVERHEAT WARNING 2	Warning 1	WARN RESET
5582	Y OVERHEAT WARNING 2	Warning 1	WARN RESET
5583	Z OVERHEAT WARNING 2	Warning 1	WARN RESET
5584	C OVERHEAT WARNING 2 Note)	Warning 1	WARN RESET
5585	5 OVERHEAT WARNING 2	Warning 1	WARN RESET
5586	6 OVERHEAT WARNING 2	Warning 1	WARN RESET
5587	7 OVERHEAT WARNING 2	Warning 1	WARN RESET
5588	8 OVERHEAT WARNING 2	Warning 1	WARN RESET

Description: [EC] Operations over rated output were repeated while the shaft of servo motor was not rotated.

Causes: The load is too large or the capacity is not enough.

Remedy: In case of frequent occurrence, contact us of the trouble procedure.

Note) For machine types BX3 and EDBV3 / 8, the 5584: W OVERHEAT WARNING 2 occurs.

A5591 A5598

No.	Name	Level	Reset
5591	X OUTPUT WATT EXCESS WARNING	Warning 1	WARN RESET
5592	Y OUTPUT WATT EXCESS WARNING	Warning 1	WARN RESET
5593	Z OUTPUT WATT EXCESS WARNING	Warning 1	WARN RESET
5594	C OUTPUT WATT EXCESS WARNING Note)	Warning 1	WARN RESET
5595	5 OUTPUT WATT EXCESS WARNING	Warning 1	WARN RESET
5596	6 OUTPUT WATT EXCESS WARNING	Warning 1	WARN RESET
5597	7 OUTPUT WATT EXCESS WARNING	Warning 1	WARN RESET
5598	8 OUTPUT WATT EXCESS WARNING	Warning 1	WARN RESET

Description: [ED] The status, in which the output wattage of the servo motor exceeded the rated output, continued steadily.

Causes: The status, in which the output wattage of the servo motor exceeded 120% of the rated output, continued steadily.

Remedy: In case of frequent occurrence, contact us of the trouble procedure.

Note) For machine types BX3 and EDBV3 / 8, the 5594: OUTPUT WATT EXCESS WARNING occurs.

A5601 A5608

No.	Name	Level	Reset
5601	X ILLEGAL PARAMETER	Alarm 3	RESET
5602	Y ILLEGAL PARAMETER	Alarm 3	RESET
5603	Z ILLEGAL PARAMETER	Alarm 3	RESET
5604	C ILLEGAL PARAMETER Note)	Alarm 3	RESET
5605	5 ILLEGAL PARAMETER	Alarm 3	RESET
5606	6 ILLEGAL PARAMETER	Alarm 3	RESET
5607	7 ILLEGAL PARAMETER	Alarm 3	RESET
5608	8 ILLEGAL PARAMETER	Alarm 3	RESET

Description: [37] Parameter error. Parameter setting is wrong.

Causes:

- (1) Parameter whose value was set by brains part is outside the setting range.
- (2) Servo amplifier fault caused the parameter setting to be rewritten.

Remedy: In case of frequent occurrence, contact us of the trouble procedure.

- (1) Check the servo parameter.
- (2) Replace the servo amplifier.

Note) For machine types BX3 and EDBV3 / 8, the 5604: W ILLEGAL PARAMETER occurs.

A5611 A5618

No.	Name	Level	Reset
5611	X PARAMETER WARNING	Warning 3	WARN RESET
5612	Y PARAMETER WARNING	Warning 3	WARN RESET
5613	Z PARAMETER WARNING	Warning 3	WARN RESET
5614	C PARAMETER WARNING Note)	Warning 3	WARN RESET
5615	5 PARAMETER WARNING	Warning 3	WARN RESET
5616	6 PARAMETER WARNING	Warning 3	WARN RESET
5617	7 PARAMETER WARNING	Warning 3	WARN RESET
5618	8 PARAMETER WARNING	Warning 3	WARN RESET

Description: [E4] Parameter warning. Parameter outside setting range.

Causes: The parameter value set from brains part is outside setting range.

Remedy: In case of frequent occurrence, contact us about the trouble procedure. Re-set servo parameter.

Note) For machine types BX3 and EDBV3 / 8, the 5614: W PARAMETER WARNING occurs.

A5621 A5628

No.	Name	Level	Reset
5621	X MEMORY ERROR3	Alarm 3	RESET
5622	Y MEMORY ERROR3	Alarm 3	RESET
5623	Z MEMORY ERROR3	Alarm 3	RESET
5624	C MEMORY ERROR3 Note)	Alarm 3	RESET
5625	5 MEMORY ERROR3	Alarm 3	RESET
5626	6 MEMORY ERROR3	Alarm 3	RESET
5627	7 MEMORY ERROR3	Alarm 3	RESET
5628	8 MEMORY ERROR3	Alarm 3	RESET

Description: [19] Memory error3. ROM memory fault.

Causes: Faulty parts in the servo amplifier.

Remedy: In case of frequent occurrence, contact us about the trouble procedure. Replace the servo amplifier.

Note) For machine types BX3 and EDBV3 / 8, the 5624: W MEMORY ERROR3 occurs.

A5631 A5638

No.	Name	Level	Reset
5631	X MEMORY ERROR2	Alarm 3	RESET
5632	Y MEMORY ERROR2	Alarm 3	RESET
5633	Z MEMORY ERROR2	Alarm 3	RESET
5634	C MEMORY ERROR2 Note)	Alarm 3	RESET
5635	5 MEMORY ERROR2	Alarm 3	RESET
5636	6 MEMORY ERROR2	Alarm 3	RESET
5637	7 MEMORY ERROR2	Alarm 3	RESET
5638	8 MEMORY ERROR2	Alarm 3	RESET

Description: [15] Memory error2. EEPROM memory fault.

Causes: Faulty parts in the servo amplifier.

Remedy: In case of frequent occurrence, contact us about the trouble procedure. Replace the servo amplifier.

Note) For machine types BX3 and EDBV3 / 8, the 5634: W MEMORY ERROR2 occurs.

A5641 A5648

No.	Name	Level	Reset
5641	X MEMORY ERROR1	Alarm 3	RESET
5642	Y MEMORY ERROR1	Alarm 3	RESET
5643	Z MEMORY ERROR1	Alarm 3	RESET
5644	C MEMORY ERROR1 Note)	Alarm 3	RESET
5645	5 MEMORY ERROR1	Alarm 3	RESET
5646	6 MEMORY ERROR1	Alarm 3	RESET
5647	7 MEMORY ERROR1	Alarm 3	RESET
5648	8 MEMORY ERROR1	Alarm 3	RESET

Description: [12] Memory error1. RAM memory fault.

Causes: Faulty parts in the servo amplifier.

Remedy: In case of frequent occurrence, contact us about the trouble procedure. Replace the servo amplifier.

Note) For machine types BX3 and EDBV3 / 8, the 5644: W MEMORY ERROR1 occurs.

A5741 A5748

No.	Name	Level	Reset
5741	X SERIAL COMMUNICATION ERROR	Alarm 3	RESET
5742	Y SERIAL COMMUNICATION ERROR	Alarm 3	RESET
5743	Z SERIAL COMMUNICATION ERROR	Alarm 3	RESET
5744	C SERIAL COMMUNICATION ERROR Note)	Alarm 3	RESET
5745	5 SERIAL COMMUNICATION ERROR	Alarm 3	RESET
5746	6 SERIAL COMMUNICATION ERROR	Alarm 3	RESET
5747	7 SERIAL COMMUNICATION ERROR	Alarm 3	RESET
5748	8 SERIAL COMMUNICATION ERROR	Alarm 3	RESET

Description: [8E] The communication error occurred between servo amplifier and a personal computer.

Serial communication error

Causes:

- (1) Communication cable fault.
- (2) Communication device faulty.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Replace the communication cable.
- (2) Replace the communication device.

Note) For machine types BX3 and EDBV3 / 8, the 5744: W SERIAL COMMUNICATION ERROR occurs.

A5751 A5758

No.	Name	Level	Reset
5751	X OPEN BATTERY CABLE WARNING	Warning 3	WARN RESET
5752	Y OPEN BATTERY CABLE WARNING	Warning 3	WARN RESET
5753	Z OPEN BATTERY CABLE WARNING	Warning 3	WARN RESET
5754	C OPEN BATTERY CABLE WARNING Note)	Warning 3	WARN RESET
5755	5 OPEN BATTERY CABLE WARNING	Warning 3	WARN RESET
5756	6 OPEN BATTERY CABLE WARNING	Warning 3	WARN RESET
5757	7 OPEN BATTERY CABLE WARNING	Warning 3	WARN RESET
5758	8 OPEN BATTERY CABLE WARNING	Warning 3	WARN RESET

Description: [92] Open battery cable warning. Absolute position detection system battery voltage is low.

Causes:

- (1) The battery cable is disconnected.
- (2) The battery voltage dropped to 2.8V or less.

Remedy: In case of frequent occurrence, contact us about the trouble procedure. Replace the cable or the battery.

Note) For machine types BX3 and EDBV3 / 8, the 5754: W OPEN BATTERY CABLE WARNING occurs.

A5761 A5768

No.	Name	Level	Reset
5761	X BATTERY WARNING	Warning 3	WARN RESET
5762	Y BATTERY WARNING	Warning 3	WARN RESET
5763	Z BATTERY WARNING	Warning 3	WARN RESET
5764	C BATTERY WARNING Note)	Warning 3	WARN RESET
5765	5 BATTERY WARNING	Warning 3	WARN RESET
5766	6 BATTERY WARNING	Warning 3	WARN RESET
5767	7 BATTERY WARNING	Warning 3	WARN RESET
5768	8 BATTERY WARNING	Warning 3	WARN RESET

Description: [9F] Battery warning. Voltage of battery for absolute position detection systems reduced.

Causes: The battery voltage fell to 3.2[V] or less.

Remedy: In case of frequent occurrence, contact us about the trouble procedure. Replace the battery.

Note) For machine types BX3 and EDBV3 / 8, the 5764: W BATTERY WARNING occurs.

A5771 A5778

No.	Name	Level	Reset
5771	X HOME POSITION SETTING WARNING	Warning 3	WARN RESET
5772	Y HOME POSITION SETTING WARNING	Warning 3	WARN RESET
5773	Z HOME POSITION SETTING WARNING	Warning 3	WARN RESET
5774	C HOME POSITION SETTING WARNING Note)	Warning 3	WARN RESET
5775	5 HOME POSITION SETTING WARNING	Warning 3	WARN RESET
5776	6 HOME POSITION SETTING WARNING	Warning 3	WARN RESET
5777	7 HOME POSITION SETTING WARNING	Warning 3	WARN RESET
5778	8 HOME POSITION SETTING WARNING	Warning 3	WARN RESET

Description: [96] Home position setting warning. Home position return could not be made in the precise position.

Causes:

- (1) Droop pulse remaining are greater than the in-position range setting.
- (2) Home position return was executed during operation command.
- (3) Creep speed is high.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Remove the cause of droop pulse occurrence.
- (2) Reduce the creep speed.

Note) For machine types BX3 and EDBV3 / 8, the 5774: W HOME POSITION SETTING WARNING occurs.

A5781 A5788

No.	Name	Level	Reset
5781	X USB COMUNICATION TIME OUT ERROR	Alarm 3	RESET
5782	Y USB COMUNICATION TIME OUT ERROR	Alarm 3	RESET
5783	Z USB COMUNICATION TIME OUT ERROR	Alarm 3	RESET
5784	C USB COMUNICATION TIME OUT ERROR Note)	Alarm 3	RESET
5785	5 USB COMUNICATION TIME OUT ERROR	Alarm 3	RESET
5786	6 USB COMUNICATION TIME OUT ERROR	Alarm 3	RESET
5787	7 USB COMUNICATION TIME OUT ERROR	Alarm 3	RESET
5788	8 USB COMUNICATION TIME OUT ERROR	Alarm 3	RESET

Description: [8A] Communication between the servo amplifier and a personal computer stopped for the specified time or longer.

Serial communication error.

Causes:

- (1) Communication cable fault.
- (2) Communication device faulty.

Remedy: In case of frequent occurrence, contact us about the trouble procedure.

- (1) Replace the communication cable.
- (2) Replace the communication device.

Note) For machine types BX3 and EDBV3 / 8, the 5784: W USB COMUNICATION TIME OUT ERROR occurs.

A5881 A5888

No.	Name	Level	Reset
5881	X STO TIMING ERROR	Alarm 3	See Remedy
5882	Y STO TIMING ERROR	Alarm 3	See Remedy
5883	Z STO TIMING ERROR	Alarm 3	See Remedy
5884	C STO TIMING ERROR Note)	Alarm 3	See Remedy
5885	5 STO TIMING ERROR	Alarm 3	See Remedy
5886	6 STO TIMING ERROR	Alarm 3	See Remedy
5887	7 STO TIMING ERROR	Alarm 3	See Remedy
5888	8 STO TIMING ERROR	Alarm 3	See Remedy

Description: [63] The STO status (torque off) has occurred during axis movement.

Causes: The axis does not enter the stop state when set to the STO state.

The following causes are possible.

- Safety relay failure
- Amplifier failure
- Software bug

Remedy: When this alarm occurs, the machine position is shifted, and so after resetting, be sure to perform the machine zero point return operation.

In case of frequent occurrence, contact us about the trouble procedure.

Note) For machine types BX3 and EDBV3 / 8, the 5884: W STO TIMING ERROR occurs.

A5891 A5898

No.	Name	Level	Reset
5891	X STO WARNING	Warning 1	WARN RESET
5892	Y STO WARNING	Warning 1	WARN RESET
5893	Z STO WARNING	Warning 1	WARN RESET
5894	C STO WARNING Note)	Warning 1	WARN RESET
5895	5 STO WARNING	Warning 1	WARN RESET
5896	6 STO WARNING	Warning 1	WARN RESET
5897	7 STO WARNING	Warning 1	WARN RESET
5898	8 STO WARNING	Warning 1	WARN RESET

Description: [95] The STO status (torque off) has occurred during axis stop.

Causes: The STO signal turned off while the servo motor is stopped.

Remedy: Turn on STO1.

In case of frequent occurrence, contact us about the trouble procedure.

Note) For machine types BX3 and EDBV3 / 8, the 5894: W STO WARNING occurs.

A5921 A5928

No.	Name	Level	Reset
5921	X SERVO ON/OFF CONDITION ERROR	Alarm 3	RESET
5922	Y SERVO ON/OFF CONDITION ERROR	Alarm 3	RESET
5923	Z SERVO ON/OFF CONDITION ERROR	Alarm 3	RESET
5924	C SERVO ON/OFF CONDITION ERROR Note)	Alarm 3	RESET
5925	5 SERVO ON/OFF CONDITION ERROR	Alarm 3	RESET
5926	6 SERVO ON/OFF CONDITION ERROR	Alarm 3	RESET
5927	7 SERVO ON/OFF CONDITION ERROR	Alarm 3	RESET
5928	8 SERVO ON/OFF CONDITION ERROR	Alarm 3	RESET

Description: The main servo ON/OFF states and the servo amplifier ON/OFF state are not in agreement.

Causes:

- (1) The function of the firm of brains part or servo amplifier stopped.
- (2) Communication system of brains part and servo amplifier fault.
- (3) The miss operation by the noise etc.
- (4) Wrong axis-related parameter setting.

Remedy: In case of frequent occurrence, contact us of the trouble procedure.

- (1) Switch the power supply off and on.
- (2) Check the communication cable. Or replace brains part or servo amplifier.
- (3) Take measures against noise.
- (4) Confirm the axis-related parameter setting.

No.500 "NC AXIS Q'TY", No.0520"PHYSICAL AXIS Q'TY" No.521 "INDEPENDENT AXIS Q'TY",

No.533 "DRIVE UNIT UNEQUIPPED AXIS"

Note) For machine types BX3 and EDBV3 / 8, the 5924: W SERVO ON/OFF CONDITION ERROR occurs.

A5931 A5938

No.	Name	Level	Reset
5931	X MACHINE POSITION RECOVERY TIME OUT	Alarm 3	See Remedy
5932	Y MACHINE POSITION RECOVERY TIME OUT	Alarm 3	See Remedy
5933	Z MACHINE POSITION RECOVERY TIME OUT	Alarm 3	See Remedy
5934	C MACHINE POSITION RECOVERY TIME OUT Note)	Alarm 3	See Remedy
5935	5 MACHINE POSITION RECOVERY TIME OUT	Alarm 3	See Remedy
5936	6 MACHINE POSITION RECOVERY TIME OUT	Alarm 3	See Remedy
5937	7 MACHINE POSITION RECOVERY TIME OUT	Alarm 3	See Remedy
5938	8 MACHINE POSITION RECOVERY TIME OUT	Alarm 3	See Remedy

Description: The restoration of the machine coordinate value when STO was cleared (switching from torque off to on) was not completed within three seconds.

Causes: During STO (torque off), the axis was stopped by the hardware system, but the positional shift that occurred during this stop was large.

Remedy: When this alarm occurs, the machine position is shifted, and so after resetting, be sure to perform the machine zero point return operation.

In case of frequent occurrence, contact us about the trouble procedure.

Note) For machine types BX3 and EDBV3 / 8, the 5934: W MACHINE POSITION RECOVERY TIME OUT occurs.

A5941 A5948

No.	Name	Level	Reset
5941	X MOTOR RECOVERY AMOUNT OVER	Alarm 3	See Remedy
5942	Y MOTOR RECOVERY AMOUNT OVER	Alarm 3	See Remedy
5943	Z MOTOR RECOVERY AMOUNT OVER	Alarm 3	See Remedy
5944	C MOTOR RECOVERY AMOUNT OVER Note)	Alarm 3	See Remedy
5945	5 MOTOR RECOVERY AMOUNT OVER	Alarm 3	See Remedy
5946	6 MOTOR RECOVERY AMOUNT OVER	Alarm 3	See Remedy
5947	7 MOTOR RECOVERY AMOUNT OVER	Alarm 3	See Remedy
5948	8 MOTOR RECOVERY AMOUNT OVER	Alarm 3	See Remedy

Description: During clearing of STO (switching from torque off to on), the restoration allowable value from the machine coordinate value was exceeded, and the axis was shifted.

Causes: During STO (torque off), the axis was stopped by the hardware system, but the positional shift that occurred during this stop was large.

Remedy: When this alarm occurs, the machine position is shifted, and so after resetting, be sure to perform the machine zero point return operation.

In case of frequent occurrence, contact us about the trouble procedure.

Note) For machine types BX3 and EDBV3 / 8, the 5944: W MOTOR RECOVERY AMOUNT OVER occurs.

A6003

No.	Name	Level	Reset
6003	BLOCK WAS CUT	Guide	WARN RESET

Description: When the MDI program (O14999) was input from a screen other than RUN screen, the number of characters in all blocks exceeded the maximum MDI program area (195 characters).

Causes: The number of characters in all blocks are too many.

Remedy: Delete them in block unit until it is within the allowable range of the MDI program.

A6005

No.	Name	Level	Reset
6005	INPUT BLOCK ERROR	Guide	WARN RESET
		Warning 1	WARN RESET

Causes:

- (1) A command not meeting the input format was input on the MDI screen.
- (2) Pallet magazine unit
 - When the M600/610/620 is executed, the code other than P, E, W and F is specified.
 - When the M600/610/620 is executed, the no code is specified.
 - The format not covered by M810/820 command is specified.
 - When the M810/820 is executed, the P and S codes are specified.

Remedy: Correct the input command.

A6015

No.	Name	Level	Reset
6015	NPC INTERNAL ERROR	Guide	WARN RESET

Causes: System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us about the trouble procedure.

A6051

No.	Name	Level	Reset
6051	INTERNAL PROCESSING ERROR	Guide	WARN RESET

Causes: System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us about the trouble procedure.

A6063

No.	Name	Level	Reset
6063	UNDELETED PROGRAM PRESENT	Guide	WARN RESET

Causes: When try to delete O number files on the Program: List screen, some of them cannot be deleted successfully (maybe the O No. files at execution were selected).

Remedy: Check the O No.

A6064 A6067

No.	Name	Level	Reset
6064	DIVIDED RESULT IN FILE CANNOT BE EDITED	Guide	WARN RESET
6065	(MAIN)INTERNAL PROCESSING ERROR	Guide	WARN RESET
6066	(SUB)INTERNAL PROCESSING ERROR	Guide	WARN RESET
6067	INTERPRETATION ERROR	Guide	WARN RESET

Causes: System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us about the trouble procedure.

A6069

No.	Name	Level	Reset
6069	(NPC)INTERNAL PROCESSING ERROR	Guide	WARN RESET

Causes: System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us about the trouble procedure.

A6071

No.	Name	Level	Reset
6071	(NPC)INTERNAL PROCESSING ERROR	Guide	WARN RESET

Causes: System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us about the trouble procedure.

A6072

No.	Name	Level	Reset
6072	AT ENTRY OF PROGRAM FROM RS232C	Guide	WARN RESET

Description: The message indicates that the O number program is being entered from external I/O unit.

A6073

No.	Name	Level	Reset
6073	AT ADDITION OF PROGRAM FROM RS232C	Guide	WARN RESET

Description: The message indicates that a program is being added to already registered O number from external I/O unit.

A6074

No.	Name	Level	Reset
6074	AT PROGRAM OUTPUT TO RS232C	Guide	WARN RESET

Description: The message indicates that a program is being outputted via RS232C.

A6076

No.	Name	Level	Reset
6076	ALARM BLOCK FOUND! STOP	Guide	WARN RESET

Causes: During the program input via RS232C, an alarm block was found and the operation stopped there. The alarm block is indicated with red characters on the BLOCK screen.

Remedy: Press the [RESET] key to stop the RS232C input and correct the program. Or, continue again the RS232C input operation and correct the alarm block after the completion of input.

A6077

No.	Name	Level	Reset
6077	DATA INPUT/OUTPUT ABORTED	Guide	WARN RESET

Description: During the data input/output via RS232C, the operation from external I/O unit was aborted through the following operation.

RS232C stop operation -> RS232C abort operation

A6078

No.	Name	Level	Reset
6078	PROGRAM DATA ENTRY END FROM RS232C	Guide	WARN RESET

Description: The program input from external I/O unit completed successfully.

A6079

No.	Name	Level	Reset
6079	OUTPUT TO RS232C END	Guide	WARN RESET

Description: The program output to external I/O unit completed successfully.

A6080

No.	Name	Level	Reset
6080	RS232C INPUT ERROR	Guide	WARN RESET

Description:

- (1) The input from external I/O unit was aborted.
- (2) At a program input the process was forced to cancel by [RESET] key.

Causes:

- (1) External I/O unit is faulty or miss operation.
- (2) Key operation error.

Remedy:

- (1) Check the external I/O unit.
- (2) Perform RS232C abort operation.

A6081

No.	Name	Level	Reset
6081	RS232C OUTPUT ERROR	Guide	WARN RESET

Description: During the program out on EDIT screen.

- (1) The program did output only for a limited time.
- (2) The output was forced to be cancelled by [RESET] key.

Causes: External I/O unit is faulty or miss operation.

Remedy:

- (1) Check the external I/O.
- (2) See No.6083 remedy (2).

A6082

No.	Name	Level	Reset
6082	RS232C INPUT UNUSABLE	Guide	WARN RESET

Causes: An attempt to input a program from external I/O unit (optional) was made, but the unit was not connected.

Remedy: Check the unit connection.

A6083

No.	Name	Level	Reset
6083	RS232C OUTPUT UNUSABLE	Guide	WARN RESET

Causes: An attempt to output a program from external I/O unit (optional) was made, but the unit was not connected.

Remedy:

- (1) Check the unit connection.
- (2) Check again the set values of the following elements are applicable to the external connecting units.

Set data

No.21 RS232C (2) BAND

No.25 RS232C INPUT

No.26 RS232C OUTPUT

A6084

No.	Name	Level	Reset
6084	AT STOP OF RS232C INPUT	Guide	WARN RESET

Causes: The discontinuance operation was done from RS232C to the program input inside.

Remedy: To continue the program input via RS232C, again perform the RS232C input operation.

Note that the operation cannot continue by aborting RS232C operation or by pressing the [RESET] key.

If RS232C abort operation was performed or the [RESET] key was pressed, erase the entered O number and retry from the beginning.

A6085

No.	Name	Level	Reset
6085	AT STOP OF RS232C OUTPUT	Guide	WARN RESET

Causes: The discontinuance operation was done from RS232C to the program output outside.

Remedy: To continue the program output via RS232C, again perform the RS232C output operation.

Note that the operation cannot continue by aborting RS232C operation or by pressing the [RESET] key.

If RS232C abort operation was performed or the [RESET] key was pressed, and retry from the beginning.

A6086

No.	Name	Level	Reset
6086	RS232C INPUT ABORTED	Guide	WARN RESET

Causes: RS232C abort operation was performed during the program input.

Remedy: RS232C input cannot be continued.

Erase the entered O number and retry from the beginning.

A6087

No.	Name	Level	Reset
6087	RS232C OUTPUT ABORTED	Guide	WARN RESET

Causes: RS232C abort operation was performed during the program output.

Remedy: Specify O number and retry from the beginning.

A6091

No.	Name	Level	Reset
6091	(FATAL)INTERNAL PROCESSING ERROR	Guide	WARN RESET

Causes: System error.

Remedy:

(1) Operate again.

(2) In case of frequent occurrence, contact us about the trouble procedure.

A6092

No.	Name	Level	Reset
6092	RS232C INPUT/OUTPUT ABORTED	Guide	WARN RESET

Causes: The [RESET] key was pressed when RS232C input or output was cancelled.

Remedy: If during RS232C input, the input data up to the cancelled point is stored.

A6094

No.	Name	Level	Reset
6094	EDIT FORBID PROGRAM	Guide	WARN RESET

Description: The program to be edited is with edit forbidden attribute (program protect).

Causes: The protect contents vary depending on set data No.30, 31 or 32 setting.

Ex) Write or delete was attempted by set data No.0030 setting value 1 (O No.8000 to 8999 are write or delete forbidden).

Remedy: Check the setting value of set data No.0030, 0031 or 0032.

A6095

No.	Name	Level	Reset
6095	DIVIDING OF PROGRAM COMPLETED	Guide	WARN RESET

Description: A program division was completed.

A6096

No.	Name	Level	Reset
6096	PLEASE KEY IN PROGRAM No.	Guide	WARN RESET

Causes: Division was operated without inputting O No.

Remedy: Input O No.

A6097

No.	Name	Level	Reset
6097	NO FILE TO STORE DIVIDED PROGRAM	Guide	WARN RESET

Causes: If a program is divided, the result is stored temporarily in a file, but this file was deleted.

Remedy: Turn power off and on again to resume the operation.

A6098

No.	Name	Level	Reset
6098	AT DIVIDING PROGRAM	Guide	WARN RESET

Description: Under O No. division execution is shown.

A6099 A6101

No.	Name	Level	Reset
6099	(R FILE)INTERNAL PROCESSING ERROR	Guide	WARN RESET
6100	(READ)INTERNAL PROCESSING ERROR	Guide	WARN RESET
6101	(REWRITE)INTERNAL PROCESSING ERROR	Guide	WARN RESET

Causes: System error.

Remedy:

(1) Operate again.

(2) In case of frequent occurrence, contact us about the trouble procedure.

A6102

No.	Name	Level	Reset
6102	PROGRAM IS BEING USED AND CANNOT BE EDITED	Guide	WARN RESET

Causes: The NC program is being used by NC internal processing and cannot be edited from the EDIT•LIST screen. However, it can be referred.

Remedy: Stop editing.

A6112

No.	Name	Level	Reset
6112	FILE Q'TY OVERFLOW	Guide	WARN RESET

Description: Program No. can be registered to any number from O No. of 1 to 9999 but not all of these numbers can be used. Total 3000 numbers are available for registration.

Causes: More than available numbers were used.

Remedy: Delete unnecessary program No.

A6113

No.	Name	Level	Reset
6113	MEMORY OVERFLOW	Guide	WARN RESET

Description: The memory becomes full during the RS232C input or manual input.

Causes: Too many programs.

Remedy: Delete unnecessary programs.

The program up to the cancelled point has been stored.

Check the program content. (Especially when cancelled halfway of the program, pay attention.)

A6115

No.	Name	Level	Reset
6115	(MEDIA3)INTERNAL PROCESSING ERROR	Guide	WARN RESET

Causes: System error.

Remedy:

(1) Operate again.

(2) In case of frequent occurrence, contact us of the trouble procedure.

A6116

No.	Name	Level	Reset
6116	(NPC 2EH)INTERNAL PROCESSING ERROR	Guide	WARN RESET

Description: System error.

Causes: Defective VMC card. Defective ROM.

Remedy: Contact us about the trouble procedure.

A6118

No.	Name	Level	Reset
6118	(MEDIA3)INTERNAL PROCESSING ERROR	Guide	WARN RESET

Description: System error.

Causes: Defective VMC card. Defective ROM.

Remedy: Contact us about the trouble procedure.

A6119

No.	Name	Level	Reset
6119	ALARM BLOCK PRESENT IN PROGRAM	Guide	WARN RESET

Causes: On the Program: Block screen, program was input and then close the file and return to the Program:

List screen but check was not completed due to presence of alarm block in the program.

Alarm block: Indicated by red characters on the screen.

Remedy: Correct the program.

A6120

No.	Name	Level	Reset
6120	(MACRO)MORE THAN 20 VARIABLES IN EXPRESSION	Guide	WARN RESET

Causes: It is shown that there is expression by which variable exceeds 20 in the edited program on the

Program: List screen.

Remedy: Correct the program.

A6121

No.	Name	Level	Reset
6121	(MACRO)ILLEGAL OPERATOR USAGE	Guide	WARN RESET

Causes: It is shown that there is usage of illegal operator in the edited program on the Program: List screen.

Remedy: Correct the program.

A6122

No.	Name	Level	Reset
6122	(MACRO)MORE THAN 20 OPERATORS IN EXPRESSION	Guide	WARN RESET

Causes: It is shown that there is expression by which operator exceeds 20 in the edited program on the

Program: List screen.

Remedy: Correct the program.

A6123 A6124

No.	Name	Level	Reset
6123	(MACRO)TOO COMPLICATED EXPRESSION(1)	Guide	WARN RESET
6124	(MACRO)TOO COMPLICATED EXPRESSION(2)	Guide	WARN RESET

Causes: It is shown that there is a too complicated expression in the edited program on the Program: List screen.

Remedy: Correct the program.

A6125

No.	Name	Level	Reset
6125	(MACRO)TOO COMPLICATED DIVISION IN EXPRESS.	Guide	WARN RESET

Causes: It is shown that there is a too complicated expression in the edited program on the Program: List screen.

Remedy: Correct the program.

A6126

No.	Name	Level	Reset
6126	(MACRO)MEMORY FULL AT COMPILE	Guide	WARN RESET

Causes: The area which the program memorized became full.

Remedy: Delete unnecessary program.

A6127 A6128

No.	Name	Level	Reset
6127	(COMPILE 48H)INTERNAL PROCESSING ERROR	Guide	WARN RESET
6128	(COMPILE 49H)INTERNAL PROCESSING ERROR	Guide	WARN RESET

Causes: System error.

Remedy: Contact us about the trouble procedure.

A6129

No.	Name	Level	Reset
6129	GRAMMAR ERROR	Guide	WARN RESET

Causes: There is a syntax error of the judgment, the divergence, and the repetition in the edited program.

The number of brackets "[", "]" in the program is not matching.

Remedy: Correct the program.

A6130

No.	Name	Level	Reset
6130	ILLEGAL CALL	Guide	WARN RESET

Causes: The alarm occurs when a command calling itself is present in the program at editing, and the program is tried to close.

Remedy: Correct the program.

Note) The alarm occurs when attempted to run because compiler error is caused after closing the file.

A6131

No.	Name	Level	Reset
6131	NEST LEVEL ABOVE 10	Guide	WARN RESET

Causes: There is something by which nesting level exceeds ten in the edited program.

Remedy: Correct the program.

A6133 A6134

No.	Name	Level	Reset
6133	(COMPILE 4EH)INTERNAL PROCESSING ERROR	Guide	WARN RESET
6134	(COMPILE 4FH)INTERNAL PROCESSING ERROR	Guide	WARN RESET

Causes: Defective brains part.

Remedy:

- (1) Operate again or turn power on again.
- (2) In case of frequent occurrence, contact us about the trouble procedure.

A6138

No.	Name	Level	Reset
6138	O ADDRESS IN BLOCK OTHER THAN HEAD BLOCK	Guide	WARN RESET

Causes: When RS232C output was made on the Program: File Manage screen, O address block is in other than head block (other than the block immediately after start).

Remedy: Delete O No. other than at head. Or, when output operation is continued by setting to "1" the bit 3 of the set data No.11 "EDIT FUNCTION(2)", the operation continues even if O address block is in other than head block.

A6140

No.	Name	Level	Reset
6140	AT PROGRAM COPY	Guide	WARN RESET

Description: This message is displayed when program copy is in execution.

A6141

No.	Name	Level	Reset
6141	COPY END	Guide	WARN RESET

Description: This message is displayed for program copy ended.

A6142

No.	Name	Level	Reset
6142	BLOCK CANNOT BE DEVELOP OFF	Guide	WARN RESET

Description: When the block which cannot be developed was about to be developed, this message is displayed.

A6143

No.	Name	Level	Reset
6143	MODEL PLAN AT DEVELOP	Guide	WARN RESET

Description: This message is displayed when the specified block is being developed.

A6250

No.	Name	Level	Reset
6250	ILLEGAL SET VALUE IN COND.	Guide	WARN RESET

Causes: In Condition: List screen, illegal value was tried to input for machining condition.

Remedy: Check the input commanded value.

A6251

No.	Name	Level	Reset
6251	NECESSARY OPTION	Guide	WARN RESET

Causes: The machining condition (E No.) is called in need of the special specification (option) unit such as power-up (60 A specification), booster (120 A specification), and super-hardness machining circuit unit.

Remedy: Confirm again the machining condition (E No.) to be applied.

A6252

No.	Name	Level	Reset
6252	MC CONDITION NOT SATISFIED	Guide	WARN RESET

Causes:

- (1) Calling E No. that is not existed.
- (2) Calling blank E No. only existing without data.
- (3) Calling E No. that is in unfinished state (in process of data input).

Remedy: Confirm again the machining condition (E No.) to be used.

A6253

No.	Name	Level	Reset
6253	MC CONDITION ILLEGAL ENTRY	Guide	WARN RESET

Causes: An additional machining condition cannot be registered in the blank of E No. in the standard machining condition (E No.) prepared by the manufacturer.

Remedy: A user machining condition can be added from No. E9000.

A6254

No.	Name	Level	Reset
6254	MC CONDITION CAN NOT BE CHANGE	Guide	WARN RESET

Causes: The machining conditional element of the standard machining condition (E No.) prepared by the manufacturer cannot be changed.

Remedy: The No. E 9000 level is additional newly and the set value is changed after conditionally jumping to that area by copying the machining condition. In this case, however, E No. can be changed.

A6255

No.	Name	Level	Reset
6255	MC CONDITION CAN NOT BE ADD	Guide	WARN RESET

Causes: The machining condition requested by user can be accepted to 500 conditions (50 sets in 10-condition unit).

More than 500 conditions cannot be added.

Remedy:

(1) Adjust the conditions and erase uselessness.

(Save the data by copying or outputting to the external I/O unit or to the external units

It is because those though registering area are 500 conditions, E No. can be applied to 1000 sorts from 9000 to 9999.)

(2) Utilize 50 set blank Nos. that are already registered.

A6258

No.	Name	Level	Reset
6258	START KEY IS INVALID	Warning 3	See Remedy

Causes: The start key is disabled.

Remedy: To start the operation, release the start key disable state.

If the safety guard is open in the CE machine, close the safety guard.

*If the enable key is available, release can also be achieved by turning on the enable key.

A6270

No.	Name	Level	Reset
6270	CALENDAR TIME OVER	Warning 1	WARN RESET

Description: The time exceeds the calendar range supported by the clock built in the NC unit.

[Range] 1970-1-1 0:00~2038-1-1 0:00

A6295

No.	Name	Level	Reset
6295	MRDF COMMUNICATION ERROR	Warning 1	WARN RESET

(Option)

Causes: Communication error occurs in MRDF.

Remedy: In case of frequent failure, contact us of the trouble condition.

A6296

No.	Name	Level	Reset
6296	TEMPORARY PASSWORD HAS EXPIRED	Warning 1	WARN RESET

(Option)

Causes: The inputted password has expired, in the machine which MRDF was assembled.

Remedy: Input a applicable password.

A6297

No.	Name	Level	Reset
6297	PRESS [RESET] KEY BEFORE OPERATION	Warning 1	WARN RESET

(Option)

Causes : The inputted password has expired, in the machine which MRDF was assembled.

Remedy: Press RESET key

A6298

No.	Name	Level	Reset
6298	MRDF ERROR DETECTED	Warning 1	WARN RESET

(Option)

Causes: Device error was detected, in the machine which MRDF was assembled.

Remedy: Please contact us.

A6299

No.	Name	Level	Reset
6299	MACHINE RELOCATION WAS DETECTED. UNLOCK AT [MAINTENANCE][ALART][MRDF].	Warning 3	WARN RESET

(Option)

Causes: Machine relocation was detected, in the machine which MRDF was assembled.

Remedy: Please contact us.

A6325

No.	Name	Level	Reset
6325	AT DRAW DISPLAY	Guide	WARN RESET

Description: On the GRAPHIC screen, the message shows when the following key was pressed.

- (1) After setting O No., when drawing starting is carried out, it is displayed
- (2) It is displayed at the time of an execution synchronize drawing.

A6326

No.	Name	Level	Reset
6326	AT AUTO SCALE	Guide	WARN RESET

Description: On the GRAPHIC screen, the message shows that Auto scaling is under way after drawing range determination following setting of O No.

A6327

No.	Name	Level	Reset
6327	AT DRAW OF WORK SHAPE	Guide	WARN RESET

Description: When drawing the work piece shape by GRAPHIC screen, a message is output.

A6328

No.	Name	Level	Reset
6328	CALCULATION	Guide	WARN RESET

Description: The message is displayed when scaling is under way, from the automatic range setting to drawing start. However, the message is not displayed normally.

A6329

No.	Name	Level	Reset
6329	CAN NOT AUTO SCALE	Guide	WARN RESET

Causes: On the GRAPHIC screen, the drawing range decision was made under the following condition;

- (1) O No. was not set.
- (2) At drawing start.
- (3) At drawing stop.

Remedy: Set O No.

Operate under drawing reset state.

A6330

No.	Name	Level	Reset
6330	CAN NOT DRAW	Guide	WARN RESET

Causes: On the GRAPHIC screen, the following operation was made.

- (1) O No. was not set.-> Drawing start -> Drawing stop ->Drawing start
- (2) At drawing start, the execution synchronize drawing was operated.

Remedy:

- (1) Set O No. to operate again.
- (2) Operate under drawing reset state.

A6331

No.	Name	Level	Reset
6331	DRAW CAN NOT STOP	Guide	WARN RESET

Causes: On the GRAPHIC screen, the drawing stop was operated.

Remedy: At drawing start, operate again.

A6336

No.	Name	Level	Reset
6336	DRAW FINISHED	Guide	WARN RESET

Description: On the GRAPHIC screen, operation was made in the following conditions.

- (1) Range auto setting -> under Drawing display -> Drawing end
- (2) At drawing start or drawing stop, drawing reset was made.

A6338

No.	Name	Level	Reset
6338	DECIDED SCALE	Guide	WARN RESET

Description: On the GRAPHIC screen, operation was made in the following conditions.

Range auto setting --> While range is automatically setting, drawing reset was made.

Note) Scale when the DRAWING key is set.

A6343

No.	Name	Level	Reset
6343	O No. ERROR	Guide	WARN RESET

Description: In the work piece shape in graphic, the registered program No. registering the specified work piece shape shows that it is not the work shape.

Remedy: Change to the program No. that is registered for the work piece shape.

A6344

No.	Name	Level	Reset
6344	DATA ERROR	Warning 1	WARN RESET

(Option)

Description: On the slide type pallet electrode, the pallet strokes in the X and Y directions are not set to the parameters No. 1072 "X NO.4 ZERO POINT" and 2072 "Y NO.4 ZERO POINT", respectively.

Remedy: Set the parameter No.*072 " * NO.4 ZERO POINT".

A6349

No.	Name	Level	Reset
6349	DRAW DATA CAN NOT DELETE NOW	Guide	WARN RESET

Causes: On the GRAPHIC screen, drawing clear was made during draw stop.

Remedy: Operate under drawing reset state.

A6350

No.	Name	Level	Reset
6350	SET DATA RESERVED	Guide	WARN RESET

Description: The message appears when on the GRAPHIC screen, the data currently being set was saved in the save area in the memory. Data saving was made.

A6351

No.	Name	Level	Reset
6351	ADD O No. CAN NOT USED IN mm-MODE	Guide	WARN RESET

Causes: In graphic, the work shape registered in inch mode, is used in mm mode.

Remedy: Register it again in mm mode.

A6356

No.	Name	Level	Reset
6356	VALIDITY IN DRAWING OFF	Guide	WARN RESET

Causes: Operation inhibited in the graphic mode was tried.

Remedy: Retry operation after turning off the GRAPH.

A6400

No.	Name	Level	Reset
6400	INVALID BECAUSE OF OPTION	Guide	WARN RESET
		Warning 1/3	WARN RESET

Description: The function key for an optional specification is operated. The optional function is not provided.

A6401

No.	Name	Level	Reset
6401	INVALID FOR MODE OTHER THAN MANUAL	Guide	WARN RESET
		Warning 1	WARN RESET

Description:

- (1) The function that is valid only in MANUAL mode was operated.
- (2) The Magazine Index button was switched on without enabling the INTERRUPT button. (Pallet magazine)
- (3) The Magazine Index button was switched on during Automatic Pallet Change Operation. (Pallet magazine)
- (4) In CE machine, the work tank movement was attempted when the machine is not in manual mode.

Remedy: Change the mode to MANUAL mode and operate again.

A6402

No.	Name	Level	Reset
6402	INVALID STATUS OTHER THAN MAN-MODE AND RESET	Guide	WARN RESET

Causes: The function valid only in MANUAL mode and under reset state was operated.

Remedy: Reset and change to MANUAL mode and then, operate again.

A6403

No.	Name	Level	Reset
6403	INVALID START STATUS	Warning 1	WARN RESET

(Option)

Causes:

- (1) The HQSF button on the [Others: Machine Control] screen was turned on/off when the START lamp is on.
- (2) The FLUID DRAIN switch was turned on when the START lamp is on. (EDNC-65)
- (3) The work tank UP/DOWN Switch is pressed when the START lamp is on.

Remedy: Please operate the Button or Switch again when the machine is in the STOP or RESET status.

A6430 A6455

No.	Name	Level	Reset
6430	CONVERSATIONAL INPUT ERROR IN ITEM A	Guide	WARN RESET
6431	CONVERSATIONAL INPUT ERROR IN ITEM B	Guide	WARN RESET
6432	CONVERSATIONAL INPUT ERROR IN ITEM C	Guide	WARN RESET
6433	CONVERSATIONAL INPUT ERROR IN ITEM D	Guide	WARN RESET
6434	CONVERSATIONAL INPUT ERROR IN ITEM E	Guide	WARN RESET
6435	CONVERSATIONAL INPUT ERROR IN ITEM F	Guide	WARN RESET
6436	CONVERSATIONAL INPUT ERROR IN ITEM G	Guide	WARN RESET
6437	CONVERSATIONAL INPUT ERROR IN ITEM H	Guide	WARN RESET
6438	CONVERSATIONAL INPUT ERROR IN ITEM I	Guide	WARN RESET
6439	CONVERSATIONAL INPUT ERROR IN ITEM J	Guide	WARN RESET
6440	CONVERSATIONAL INPUT ERROR IN ITEM K	Guide	WARN RESET
6441	CONVERSATIONAL INPUT ERROR IN ITEM L	Guide	WARN RESET
6442	CONVERSATIONAL INPUT ERROR IN ITEM M	Guide	WARN RESET
6443	CONVERSATIONAL INPUT ERROR IN ITEM N	Guide	WARN RESET
6444	CONVERSATIONAL INPUT ERROR IN ITEM O	Guide	WARN RESET
6445	CONVERSATIONAL INPUT ERROR IN ITEM P	Guide	WARN RESET
6446	CONVERSATIONAL INPUT ERROR IN ITEM Q	Guide	WARN RESET
6447	CONVERSATIONAL INPUT ERROR IN ITEM R	Guide	WARN RESET
6448	CONVERSATIONAL INPUT ERROR IN ITEM S	Guide	WARN RESET
6449	CONVERSATIONAL INPUT ERROR IN ITEM T	Guide	WARN RESET
6450	CONVERSATIONAL INPUT ERROR IN ITEM U	Guide	WARN RESET
6451	CONVERSATIONAL INPUT ERROR IN ITEM V	Guide	WARN RESET
6452	CONVERSATIONAL INPUT ERROR IN ITEM W	Guide	WARN RESET
6453	CONVERSATIONAL INPUT ERROR IN ITEM X	Guide	WARN RESET
6454	CONVERSATIONAL INPUT ERROR IN ITEM Y	Guide	WARN RESET
6455	CONVERSATIONAL INPUT ERROR IN ITEM Z	Guide	WARN RESET

Causes: When data are tried to register in a model plan, Miss- input or Miss-input-combination has occurred.

Remedy: Input the item applicable to the message.

A6457

No.	Name	Level	Reset
6457	CHANGED INPUT DATA FOR TOO SMALL REDUCTION	Guide	WARN RESET

Description: When a work starting No. is omitted, the best suited work starting No. is to be selected automatically by the electrode reduction.

However, a suitable work starting No. is not selected because of too small reduction.

Remedy: Get the electrode reduction bigger.

A6458

No.	Name	Level	Reset
6458	MODEL PROGRAM START POSITION IS NO-GOOD	Warning 1	WARN RESET
		Alarm 2	RESET

Causes: As the program starting position is within the work model starting point, it is in danger that the work piece is touching with the electrode in the multiple making operation.

Remedy: Move the Z axis higher than the machining model start point.

A6459

No.	Name	Level	Reset
6459	MEASURE EXCESS ERROR	Warning 3	WARN RESET

Causes: When the measuring function of the model plan G125 (Measure sphere/Center sphere), or G126 (Electrode/Center sphere) is performed.

The error gained from comparing the first result of measuring and the succeeding measuring results (up to five times) is greater than the allowable value for the measuring error.

Remedy: Clean the materials to be measured.

A6460

No.	Name	Level	Reset
6460	START OF PROCESS NO. IS SMALL FOR ELECT.REDUCTION VALUE.PLEASE CHECK PROGRAM	Warning3	SEE BELOW

Cause: In the machining model (G100 - G103), the item I "START OF PROCESS No." set value will be smaller than the item R "ELECTRODE REDUCTION". Under this condition, the attained dimensions may be large or the specified surface roughness may not be obtained.

Remedy: Check the entered data by referring to the data book

- (1) If the data is incorrect: Change it, for instance set the start process number to larger value.
- (2) If you want to perform the machining as it is: Press the START button to continue the machining.
- (3) If you don't want to display a warning message: A warning message display can be disabled by the PRM 668 bit 2. Please contact us for the parameter changing method.

A6461

No.	Name	Level	Reset
6461	CONVERSATIONAL INPUT ERROR IN WORK.ROTATION ITEM	Guide	WARN RESET

Cause: When the workpiece rotational function of the model plan is valid (#594< >#0), the item that cannot be used was specified.

- (1) Machining models G104 (CORNER MC) and G105 [SINGLE PAGE] cannot be used.
- (2) In the Positioning models G110/G111/G113/G114, the item L[ANGLE INDEX] is not 1 (C AXIS).
- (3) In the Positioning models G110/G111/G113/G114, the item A [ANGLE] is blank.
- (4) In the Positioning models G110/G111/G113/G114, the item D [ELECT. ROT. OFFSET] is not 1 (ON).
- (5) In the Positioning model G112, the item H [PLANE] is not X-Y plane (1 or blank).
- (6) In the Positioning model G112, the item C [C AXIS] or item B [START POI. ANGLE] is blank.
- (7) In the Positioning model G112, the item D [ELECT. ROT. OFFSET] is not 1 (ON).

Remedy: Invalidate the workpiece rotational function of model plan (#594=#0), or take the following measures.

- (1) Machining models G104 (CORNER MC) and G105 (SINGLE PAGE) can be used.
- (2) In the Positioning models G110/G111/G113/G114, the item L [ANGLE INDEX] is 1 (C AXIS).
- (3) In the Positioning models G110/G111/G113/G114, the item A [ANGLE] is not blank.
- (4) In the Positioning models G110/G111/G113/G114, the item D [ELECT. ROT. OFFSET] is 1 (ON).
- (5) In the Positioning model G112, the item H [PLANE] is X-Y plane (1 or blank).
- (6) In the Positioning model G112, the item C [C AXIS] or item B [START POI. ANGLE] is not blank.
- (7) In the Positioning model G112, the item D [ELECT. ROT. OFFSET] is 1 (ON).

A6462

No.	Name	Level	Reset
6462	[SETTING FOR FINE MATTE FINISH] IS VALID. IT IS NOT NECESSARY TO SET ITEM T	ALARM 1	WARN RESET

Description: [SETTING FOR FINE MATTE FINISH] is valid. It is not necessary to set item T

Remedy: Erase the setting of item T.

A6463

No.	Name	Level	Reset
6463	SPINDLE IS MOVED TO START POS. AS CURRENT POS. IS NEAR TO WORK. (RESUME:[START] KEY)	Warning3	WARN RESET

Causes: The program start position is lower (workpiece side) than the machining model start position.

If the operation is restarted under this condition, the electrode could interfere with the workpiece during movements in the multi-piece machining accordingly,

Remedy:

- (1) The machining by program can be continued with the [START] key, but before pressing the [START] key, check that the electrode does not interfere with the workpiece when it moves to the second and subsequent holes at its height.
- (2) If you want to start from higher position, switch to the manual run mode without pressing the [RESET] key and raise the Z axis to safety height, and then return to the memory run mode again and press the [START] key. Of course, you may press the [RESET] key as usual and raise the Z axis to safety height, and then press the [START] key.

Note 1) If you press the [START] key after moving the Z axis to lower position, the Z axis moves up and then this message is displayed again and the operation stops.

Note 2) This check is made only for the axis in the machining depth direction.

- In the machining on the XY plane, the machining depth Z axis is checked.
- In the machining on the ZX plane, the machining depth Y axis is checked.
- In the machining on the YZ plane, the machining depth X axis is checked.

A6464

No.	Name	Level	Reset
6464	NO ELECTRODE ON SPINDLE CHUCK. (ELECTRODE NO.[T] IS [0])	Alarm 2	See Below

Content: On fine hole machine (EDBV3 etc.), the electrode No. on spindle is unknown (Modal T = 0) when electrode unloading.

Therefore the unloading electrode is impossible.

Causes: The value of Item [Electrode Number T] is [0].

Remedy: After RESET operation, Input a current electrode No. in [Electrode Number T] on RUN screen.

Then try unloading command again.

Caution: How to command of electrode unloading is different depend on machine type.

EDBV3: G109E0;

EDFH1: G137O8021E0;

A6465

No.	Name	Level	Reset
6465	THERE IS NO ELECTRODE FOR MACHINING. PLEASE SET NEW ONE AND RESTART. ([START] KEY)	Warning 3	WARN RESET

Content: On Fine hole machining (EDBV3 etc.), there are no electrodes to use for machining at ATC change during machining.

(If the length of an electrode becomes short during machining. ATC change will start automatically to change to same diameter one.)

Causes: There are no electrodes to use for machining.

Remedy: Please set an same diameter electrode on ATC magazine and input the electrode diameter or length data in electrode length management screen.

A6466

No.	Name	Level	Reset
6466	PLEASE SPECIFY IN BASED POT No (ELECTRODE MANAGEMENT SCREEN)	Warning 3	WARN RESET

Description: When alignment measurement (G109...N100) is performed after electrode change on the EDVB3, the alignment measurement cannot be continued because the BASED POT No with which the reference position (G500G54) is set is not specified.

Causes: The BASED POT No with which the reference position (G500G54) is set is not specified for [BASED POT No] on the ELECTRODE MANAGEMENT SCREEN.

Remedy: Correctly specify [BASED POT No] on the ELECTRODE MANAGEMENT SCREEN, and then pass [START] to restart the alignment measurement.

A6467

No.	Name	Level	Reset
6467	MACHINING POWER WILL TURN ON. BE CAREFUL OF ELECTRIC SHOCK. (RESUME:[START] KEY)	Warning 3	WARN RESET

Description: When [MODEL MC NOEFFECT] is ON, the item E (MACHINING (MC COND. No.)) of the model plan G110 (point) is specified, so this message is issued to stop operation in order to prevent an electric shock before the machining power supply is turned on.

Causes: The machining power supply is not turned on when a program check (except the machining feed of G110) is done with [MODEL MC NOEFFECT] in normal conditions. When the machining feed with G110 is performed, the machining power supply is turned on at the positioning to the start point coordinates XYZ, and the axis moves. During this time, you may get an electric shock if touching the electrode. A warning message is displayed in order to prevent an electric shock.

Remedy: In order to prevent an electric shock, confirm that you are not touching the electrode, and then press [START].

A6468

No.	Name	Level	Reset
6468	ATC IS DISABLED. IF CONTINUE WITH ATC, CANCEL THE ATC DISABLE AND RESTART.	Warning 3	See Below

Description: In models where the ATC operation can be prohibited (EDBV3, EDBV8), this indicates that the ATC operation is currently prohibited.

Causes: Because the [ATC Disable] button is turned on, operation is suspended before the ATC change operation.

Note) [ATC Disable] button is on Others: Machine Control screen in EDBV3 and EDBV8.

Remedy: When the ATC change operation is enabled, [ATC Disable] can be turned off, and operation can be restarted.

However, if the ATC change operation is disabled, perform a reset, and manually change the electrode.

A6469

No.	Name	Level	Reset
6469	NO DETECTING DISCHARGE ([MONITOR DEPTH AFTER TOP SHAPE] IS OVER)	Alarm 2	RESET

Description: During hole machining after TOP SHAPE machining, electrical discharge could not be detected even after the electrode was moved by the discharge monitoring distance (specified in G138 Item A).

Target model: EDBV3, EDBV8

Causes: There is no workpiece for which hole machining is to be performed after TOP SHAPE machining.

Remedy: Check the TOP SHAPE machining program.

In case of frequent occurrence even if correct the program, please contact us and tell the trouble procedure.

A6470

No.	Name	Level	Reset
6470	CHECK THE ELECTRODE DIAMETER ON PROGRAM AND ELECTRODE MANAGEMENT SCREEN	Alarm 2	RESET

Description: Because the command electrode diameter of the machining program (machining mode 10 for G109) of EDBV and the electrode diameter in the electrode management screen that can be changed are different, electrode cannot be change.

Remedy: Restart the program after correcting the machining program after RESET is done or inputting the electrode that can be changed into the electrode management screen.

A6471

No.	Name	Level	Reset
6471	CHECK THE GUIDE LENGTH ON PROGRAM AND ELECTRODE MANAGEMENT SCREEN	Alarm 2	RESET

Description: Because the command guide length of the machining program (machining mode 10 for G109) of EDBV and the guide length in the electrode management screen that can be changed are different, electrode cannot be change.

Remedy: Restart the program after correcting the machining program after RESET is done or inputting the electrode that can be changed into the electrode management screen.

A6472

No.	Name	Level	Reset
6472	ELECTRODE LENGTH IS NOT ENOUGH FOR MACHINING	Alarm 2	RESET

Description: Because it is short that the electrode length that tried to be changed while executing the machining program (machining mode 10 for G109) of EDBV, electrode cannot be exchanged.

Remedy: Restart the program after inputting the electrode that can be changed into the electrode management screen after RESET is done.

A6473

No.	Name	Level	Reset
6473	OPTIONAL PROCESS No. SPECIFIED (ULTRA FINE MACHINING CIRCUIT)	Warning 3	WARN RESET

(Option)

Causes: An attempt was made to perform machining for microscopic machining conditions using a machine not equipped with a fine diameter circuit unit.

Remedy: Check the machining conditions.

A6474

No.	Name	Level	Reset
6474	OPTIONAL PROCESS No. SPECIFIED (STAIN MACHINING CIRCUIT [MF-4])	Warning 3	WARN RESET

(Option)

Causes: An attempt was made to perform machining for finishing capacitor conditions using a machine not equipped with an MF unit (low-capacity capacitor).

Remedy: Check the machining conditions.

A6475

No.	Name	Level	Reset
6475	OPTIONAL PROCESS No. SPECIFIED (CARBIDE MACHINING CIRCUIT)	Warning 3	WARN RESET

(Option)

Causes: An attempt was made to perform machining for carbide conditions using a machine not equipped with carbide machining circuit unit.

Remedy: Check the machining conditions.

A6479

No.	Name	Level	Reset
6479	USER REGISTRATION AREA FULL	Alarm 2	RESET

Description: An internal user area became full because of G10L50 command.

A6483

No.	Name	Level	Reset
6483	ATC POT NO. ISN'T FIXED.	Warning 2	WARN RESET
		Guide	WARN RESET

(Option)

Causes: When C.OFFSET SAVE (BF1-8) button was pressed, this alarm occurs if the ATC magazine is indexing or the ATC magazine has not returned to the reference point when ATC magazine "POT No."(MC CONTROL•ATC screen) is checked as a destination.

Remedy: Open the M C CONTROL•ATC screen and check if the pot No. is displayed. If not displayed, return the axis to the reference point, then specify the ATC command in the MDI RUN mode.

A6484

No.	Name	Level	Reset
6484	CAN'T USE KEYWORD 'T'	Warning 2	WARN RESET
		Guide	WARN RESET

(Option)

Causes: When C.OFFSET SAVE (BF1-8) button was pressed, this alarm occurs if the 3R ATC, EROWA Robot, or magazine-less ATC is used or if ATC unit is not installed when ATC magazine "POT No."(MC CONTROL•ATC screen) is checked as a destination.

Remedy: Use the Modal: Electrode No. command.

A6486

No.	Name	Level	Reset
6486	LOCAL SET NUMBER ERROR.	Guide	WARN RESET

Causes: It set a wrong local set number.

Remedy: Please correct a set value.

A6487

No.	Name	Level	Reset
6487	CENTER WORK COORD. IS MEASURING.	Warning 2	WARN RESET
		Guide	WARN RESET

Causes: When C.OFFSET SAVE (BF1-8) button was pressed, this alarm occurs if modal work coordinate No. is same as that set by the set data No.0190 "CENTER WORK COORD. NO.".

Remedy: Change the modal work coordinate number.

A6497

No.	Name	Level	Reset
6497	STOPPED AFTER BREAKTHROUGH DETECTION. PLEASE CHECK MACHINING STATE	Warning 3	WARN RESET

Description: After penetration was detected (machining mode 8) by EDBV3 or EDBV8, operation was suspended.

Causes: This occurred because the B7 [Suspend After Penetrate] button on the Electrode Management screen was turned on when machining.

Remedy: Lower the work tank manually after operation is suspended, and check the protrusion length at the workpiece rear side.

If the protrusion length is suitable, or if the suspension operation is not needed, turn off the [Suspend After Penetrate] button, and restart to proceed to the next machining process.

If the protrusion length is not suitable, use G138 machining adjustment or other command to revise the settings for penetration detection, and then perform test machining again.

A6498

No.	Name	Level	Reset
6498	DELAY TIME OVER (DETECTION IGNORE)	Alarm 1	RESET

Description: During ignoring of break through detection (DETECTION IGNORE), machining did not proceed even though the time set for G138 item T: [DELAY TIME (DETECTION IGNORE)] has elapsed.

Causes: When machining does not proceed:

[Possible causes]

- Collision with object in workpiece
- Machining conditions setting error

And more

Remedy: Reset and check the machine state.

In case of frequent occurrence, contact us about the trouble procedure.

A6499

No.	Name	Level	Reset
6499	DELAY TIME OVER (DETECTION ACTIVE)	Alarm 1	RESET

Description: During break through detection (DETECTION ACTIVE), machining did not proceed even though the time set for G138 item T: [DELAY TIME (DETECTION A)] has elapsed.

Causes: When machining does not proceed:

[Possible causes]

- Collision with object in workpiece
- Machining conditions setting error

And more

Remedy: Reset and check the machine state.

In case of frequent occurrence, contact us about the trouble procedure.

A6500

No.	Name	Level	Reset
6500	START, STOP, RESET KEYS ARE INVALID	Warning 1	WARN RESET

Description: START, STOP or RESET key was presses when a process was executing during schedule operation.

A6501

No.	Name	Level	Reset
6501	CAN NOT CHANGE RUNNING MODE	Warning 1	WARN RESET

Description: An attempt to change the operation mode to other than MEM RUN mode was made when a process was executing during schedule operation.

A6551

No.	Name	Level	Reset
6551	THE STROKE OF Z AXIS DOES NOT SUFFICE.	Warning 3	WARN RESET

Causes: The Z axis stroke is short for the depth of machining.

Remedy: Change the electrode clamping method so as to ensure the Z axis stroke.

A6552

No.	Name	Level	Reset
6552	THE STROKE OF W AXIS DOES NOT SUFFICE.	Warning 3	WARN RESET

Causes: The W axis stroke is short for the depth of machining.

Remedy: Change the electrode clamping method so as to ensure the W axis stroke.

A6553

No.	Name	Level	Reset
6553	PLEASE SET NEW ELECTRODE	Warning 2	WARN RESET

Causes: The next electrode has not been registered.

Remedy: Store a new electrode in the magazine.

A6600

No.	Name	Level	Reset
6600	ILLEGAL DATA ON KEY-IN LINE	Guide	WARN RESET

Causes: The [ENTER] key was pressed with an erroneous command.

Remedy: Check the input command.

A6561 A6575

No.	Name	Level	Reset
6561	Z AXIS STROKE LIMIT AGAINST W AXIS HEIGHT	Alarm 1	RESET
6562	ELECTRODE IS TOO SHORT BEFORE MEASUREMENT	Alarm 1	RESET
6563	WORKPIECE SURFACE CANNOT BE DETECTED BEFORE MACHINING	Alarm 1	RESET
6564	ELECTRODE IS TOO SHORT BEFORE MACHINING	Alarm 1	RESET
6565	(FINE HOLE: REASONS FOR TERMINATION 5)	Alarm 1	RESET
6566	ELECTRODE COMES IN CONTACT WITH WORKPIECE AFTER MACHINING	Alarm 1	RESET
6567	WORKPIECE SURFACE CANNOT BE DETECTED AFTER MACHINING	Alarm 1	RESET
6568	Z AXIS IS RETRACTING FOR A CERTAIN TIME	Alarm 1	RESET
6569	MACHINING IS NOT PROGRESSING FOR A CERTAIN TIME	Alarm 1	RESET
6570	Z AXIS RETURNED TO MACHINING START POINT	Alarm 1	RESET
6571	(FINE HOLE: REASONS FOR TERMINATION 11)	Alarm 1	RESET
6572	(FINE HOLE: REASONS FOR TERMINATION 12)	Alarm 1	RESET
6573	(FINE HOLE: REASONS FOR TERMINATION 13)	Alarm 1	RESET
6574	(FINE HOLE: REASONS FOR TERMINATION 14)	Alarm 1	RESET
6575	(FINE HOLE: REASONS FOR TERMINATION 15)	Alarm 1	RESET

Description: An operation end reason occurred in fine hole machining.

Remedy: See the fine hole machining operation manual.

A6601

No.	Name	Level	Reset
6601	NO DISPLAYABLE PAGE	Guide	WARN RESET

Causes: In a mode with two or more pages, there was no more pages when pages are turned by [+] or [-] key.

Remedy: If this message appears when [+] key is used, use [-] key to turn pages. If this message appears when [-] key is used, use [+] key to turn pages.

A6602

No.	Name	Level	Reset
6602	AT WRITE FORBID	Guide	WARN RESET

Description: The set data value was input in the write prohibit condition.

Causes: Value was input a write-protected parameter during starting, stopping or in ZERO RETURN mode.

Remedy: Reset or turn off the zero return mode and then, operate again.

A6603

No.	Name	Level	Reset
6603	COORD. VALUE CANNOT BE SET NOW	Guide	WARN RESET

Description: Coordinate value was set when work coordinate setting was impossible.

Causes: The work setting was made during start or stop.

Remedy: Reset and operate again.

A6604 A6615

No.	Name	Level	Reset
6604	INVALID SEARCH KEY	Guide	WARN RESET
6605	INVALID DELETE KEY	Guide	WARN RESET
6606	INVALID ADD KEY	Guide	WARN RESET
6607	INVALID INPUT KEY	Guide	WARN RESET
6608	INVALID + PAGE KEY	Guide	WARN RESET
6609	INVALID - PAGE KEY	Guide	WARN RESET
6610	INVALID UP CURSOR KEY	Guide	WARN RESET
6611	INVALID DOWN CURSOR KEY	Guide	WARN RESET
6612	INVALID RIGHT CURSOR KEY	Guide	WARN RESET
6613	INVALID LEFT CURSOR KEY	Guide	WARN RESET
6614	INVALID ADDRESS KEY	Guide	WARN RESET
6615	INVALID TEN KEY	Guide	WARN RESET

Description: These keys were pressed on invalid screens.

A6616

No.	Name	Level	Reset
6616	ADDRESS KEY INPUT ON KEY-IN LINE	Guide	WARN RESET

Causes: While address key [A] to [Z] was unnecessary for the specified entry, such entry was attempted.

Remedy: Delete address (A to Z) command on the key-in line.

A6617

No.	Name	Level	Reset
6617	TOO LARGE NUMERIC ON KEY-IN LINE	Guide	WARN RESET

Causes: The data entered on the key-in line exceeded the range of data value in the specified entry.

Remedy: Change the value on the key-in line.

A6618

No.	Name	Level	Reset
6618	TOO SMALL NUMERIC ON KEY-IN LINE	Guide	WARN RESET

Causes: The data entered on the key-in line was smaller than the range of data value in the specified entry.

Remedy: Change the value on the key-in line.

A6619

No.	Name	Level	Reset
6619	ILLEGAL NUMERIC ON KEY-IN LINE	Guide	WARN RESET

Description: The data entered on the key-in line was out of the numeric range of data value in the specified entry.

Remedy: Change the value on the key-in line.

A6620

No.	Name	Level	Reset
6620	ILLEGAL NUMBER OF DIGITS ON KEY-IN LINE	Guide	WARN RESET

Causes: The data entered on the key-in line did not match the number of digits of data value in the specified entry.

Remedy: Change the number of digits on the key-in line.

A6621

No.	Name	Level	Reset
6621	KEY-IN LINE EMPTY	Guide	WARN RESET

Description: Operation was made without entering a numeric or alphabetical value in advance on the key- in line.

Remedy: Enter data on the key-in line and then operate again.

A6630

No.	Name	Level	Reset
6630	INVALID BECAUSE OF OPTION	Guide	WARN RESET
		Warning 3	WARN RESET

Description: The function key for an optional specification is operated. The optional function is not provided.

A6750

No.	Name	Level	Reset
6750	USER MASKING PARAMETER NO **** (DIGIT *)	Guide	WARN RESET

Description: When a function key assigned on the screen is pressed, that key is masked. The "****" indicates set data No.0340 - 0361 bit 0 - 7.

Remedy: Reset the masked function key by setting the bit of parameter No. given by guide message to "0".

A6751

No.	Name	Level	Reset
6751	INVALID COMMAND REQUEST	Guide	WARN RESET

(Option)

Description: For the communication specification of IMC, the program INPUT/OUTPUT key and the program stop key is not use now.

A6752

No.	Name	Level	Reset
6752	4/5 AXIS SELECTION KEY IS INVALID SETTING	Warning 1	WARN RESET

(Option)

Causes: 4th or 5th axis selection key on FPB is operated on manual mode when the key is disable setting.

Remedy: 4th or 5th axis selection key is set disabled.

The key setting is selected by parameter No. 490.

Parameter No 490 bit 1 : FPB FUNCTION SELECTION

0: Enable

1: Disable

A6870

No.	Name	Level	Reset
6870	FAIL TO TRANSMIT PROGRAM	Warning 3	WARN RESET

(Option)

Causes: When download program from FTP server to the machine, the target program cannot be transferred to the machine.

Remedy: Confirm the machine memory is not full and press [START] key to download the program again.

A6871

No.	Name	Level	Reset
6871	THE PROGRAM IS BEING USED	Warning 3	WARN RESET

(Option)

Causes: When download program from FTP server to the machine, the target program cannot be transferred to the machine because the target program is running or is opened in the Edit Screen.

Remedy: Press [START] key to download the program again after confirms the target program is not running and is not opened in the Edit Screen.

A6872

No.	Name	Level	Reset
6872	ERROR WHEN CONNECTING TO THE SERVER	Warning 3	WARN RESET

(Option)

Causes: Connecting to the FTP server fail.

Remedy: Check the network connection and confirm machine's FTP setting is correct. Press [START] key to download the program again.

A6873

No.	Name	Level	Reset
6873	ERROR WHEN DOWNLOADING THE FILE FROM SERVER	Warning 3	WARN RESET

(Option)

Causes: When download program from FTP server to the machine, an exception occurred while retrieving the file from server or saving the download file.

Remedy: After confirm there's the download file on FTP server and confirm the machine has enough storage space, press [START] key to download the program again.

A6910

No.	Name	Level	Reset
6910	PRESS STOP AND RESET AT THE SAME TIME FOR RESET	Warning 3	WARN RESET

Causes: The FPB reset key operational error prevention function (parameter No.34 [Function by auto run finish] bit5) is effective.

Remedy: Push the reset key to FPB while pushing the stop key to FPB when you reset.

A6911

No.	Name	Level	Reset
6911	KEEP PUSHING THE RESET KEY	Warning 3	WARN RESET

Causes: Long press Reset-key function is enabled.

Remedy: To execute Reset, long press the Reset key for at least 1.5 sec.

A7031

No.	Name	Level	Reset
7031	STARTING COMMUNICATION WITH PORTABLE(FPB)	Warning 1	WARN RESET

Causes: The FPB application start-up has not been completed yet.

Remedy: The message will disappear just after the FPB application start up is completed.

A7032

No.	Name	Level	Reset
7032	STARTING COMMUNICATION WITH MAIN OPERATION PANEL	Warning 1	WARN RESET

Causes: The KEY application start-up has not been completed yet.

Remedy: The message will disappear just after the KEY application start up is completed.

A7041

No.	Name	Level	Reset
7041	COMMUNICATION ERROR WITH PORTABLE(FPB)	Warning 3	WARN RESET

Causes: No response has been returned from FPB application within the specified time (parameter No.9905 "UI WATCH TIME 1").

Remedy: Please check the set value of parameter No.9905 "UI WATCH TIME 1". Standard value is "20".

Note) The [START] key is disabled when this message is displayed.

A7042

No.	Name	Level	Reset
7042	COMMUNICATION ERROR WITH MAIN OPERATION	Warning 3	WARN RESET

Causes: No response has been returned from KEY application within the specified time (parameter No.9906 "UI WATCH TIME 2").

Remedy: Please check the set value of parameter No.9906 "UI WATCH TIME 2". Standard value is "600".

Note) The [START] key is disabled when this message is displayed.

A7100

No.	Name	Level	Reset
7100	CP11 RESERVE, RELEASE ERROR(COM1)	Alarm 3	RESET

(Option)

Causes: Defect on main software.

Remedy:

(1) Turn power on again.

(2) Contact us if the problem still occurs.

A7101

No.	Name	Level	Reset
7101	CP11 TIME OUT ERROR(COM1)	Warning 1	WARN RESET

(Option)

Causes: Defect on brains part or main software.

Remedy:

- (1) Turn power on again.
- (2) Contact us if the problem still occurs.

A7102

No.	Name	Level	Reset
7102	CP11 START, STOP ORDER ERROR(COM1)	Alarm 3	RESET

(Option)

Description: An error occurred when the data input/output is started or finished via external RS232C channel.

Causes: Defect on brains part or main software.

Remedy:

- (1) Turn power on again.
- (2) Contact us if the problem still occurs.

A7108

No.	Name	Level	Reset
7108	CP11 FRAMING ERROR(COM1)	Warning 1	WARN RESET

(Option)

Description: The data frame error (0 is detected by the stop bit) is found during data input/output via external RS232C channel.

Causes: The baud rate setting of FMS or external I/O device is incorrect.

The data length of FMS or external I/O device is incorrect.

Remedy: Confirm the set values of FMS or external devices connected again.

A7109

No.	Name	Level	Reset
7109	CP11 RX OVERRUN(COM1)	Warning 1	WARN RESET

(Option)

Description: The data is read one character each from the external RS232C channel, but external RS232C channel overruns and 4 or more characters are input at the same time.

Causes: FMS or setting of external I/O unit. Defect on brains part or main software.

Remedy: Confirm the set values of FMS or external devices connected again.

A7110

No.	Name	Level	Reset
7110	CP11 PARITY ERROR(COM1)	Warning 1	WARN RESET

(Option)

Description: When the data is read one character each from the external RS232C channel, one of the even/odd data is incorrect.

Causes: FMS or setting of external I/O unit. Defect on brains part or main software.

Remedy: Confirm the set values of FMS or external devices connected again.

A7111

No.	Name	Level	Reset
7111	CP11 BUFFER OVERFLOW(COM1)	Warning 1	WARN RESET

(Option)

Description: The input buffer overflows during data reading from the external RS232C channel.

Causes: FMS or setting of external I/O unit. Defect on brains part or main software.

Remedy: Confirm the set values of FMS or external devices connected again.

A7112

No.	Name	Level	Reset
7112	CP11 TERMINAL NOT CONNECTED(COM1)	Warning 1	WARN RESET

(Option)

Description: Initial setting of external RS232C channel is wrong, or the cable is defected or disconnected.

Causes: Poor RS232C connector.

FMS or setting of external I/O unit. Defect on brains part or main software.

Remedy: Check the connection of RS232C connectors.

A7119

No.	Name	Level	Reset
7119	CP11 NON REGISTRY ALARM(COM1)	Alarm 3	RESET

(Option)

Description: Unregistered alarm occurred in the external RS232C channel.

Causes: Defect on brains part or main software.

Remedy:

(1) Operate again or turn power on again.

(2) Contact us if the problem still occurs.

A7120

No.	Name	Level	Reset
7120	CP12 RESERVE, RELEASE ERROR(COM2)	Alarm 3	RESET

(Option)

Causes: Defect on main software.

Remedy:

(1) Turn power on again.

(2) Contact us if the problem still occurs.

A7121

No.	Name	Level	Reset
7121	CP12 TIME OUT ERROR(COM2)	Warning 1	WARN RESET

(Option)

Description: When input/output is made through external RS232C channel, data is not entered for more than the time set by the parameter.

The set value of the set data No.0022 "RS232C(1) WATCH TIMER" setting is 10 s.

Causes: Setting of external RS232C or external I/O unit. Defect on brains part or main software.

Remedy: Confirm set data No.20 "RS232C (1) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7122

No.	Name	Level	Reset
7122	CP12 START, STOP ORDER ERROR(COM2)	Alarm 3	RESET

(Option)

Description: An error occurred when tape input or tape setting is started or ended using external RS232C channel.

Causes: Defect on brains part or main software.

Remedy:

- (1) Turn power on again.
- (2) Contact us if the problem still occurs.

A7128

No.	Name	Level	Reset
7128	CP12 FRAMING ERROR(COM2)	Warning 1	WARN RESET

(Option)

Description: During input/output by the external RS232C channel, data framing error is found (0 was detected by stop bit).

Causes: Specification error of stop bit length of external input/output equipment.

Specification error of data length of external input/output equipment.

Remedy: Confirm set data No.20 "RS232C (1) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7129

No.	Name	Level	Reset
7129	CP12 RX OVERRUN(COM2)	Warning 1	WARN RESET

(Option)

Description: Data is normally read in one character unit from the external RS232C channel but the channel is overrun and four characters or more are entered simultaneously.

Causes: Setting of external RS232C or external I/O unit. Defect on brains part or main software.

Remedy: Confirm set data No.20 "RS232C (1) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7130

No.	Name	Level	Reset
7130	CP12 PARITY ERROR(COM2)	Warning 1	WARN RESET

(Option)

Description: When one character of data was read from the external RS232C channel, its odd/even parity is different from the specification.

Causes: Setting of external I/O unit.

Defect on brains part or main software.

Remedy: Confirm set data No.20 "RS232C (1) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7131

No.	Name	Level	Reset
7131	CP12 BUFFER OVERFLOW(COM2)	Warning 1	WARN RESET

(Option)

Description: While data is being read from the external RS232C channel, the input buffer overflow.

Causes: Setting of external I/O unit.

Defect on brains part or main software.

Remedy: Confirm set data No.20 "RS232C (1) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7132

No.	Name	Level	Reset
7132	CP12 TERMINAL NOT CONNECTED(COM2)	Warning 1	WARN RESET

(Option)

Description: Incorrect initialization of the external RS232C channel or the cable is defective or disconnected.

Causes: Poor RS232C connectors.

Setting of external I/O unit.

Defect on brains part or main software.

Remedy: Check external RS232C connectors.

A7139

No.	Name	Level	Reset
7139	CP12 NON REGISTRY ALARM(COM2)	Alarm 3	RESET

(Option)

Description: Meaningless alarm is caused by the external RS232C channel.

Causes: Defect on brains part or main software.

Remedy:

(1) Operate again or turn power on again.

(2) Contact us if the problem still occurs.

A7140

No.	Name	Level	Reset
7140	CP13 RESERVE, RELEASE ERROR(COM3)	Alarm 3	RESET

(Option)

Causes: Defect on main software.

Remedy:

(1) Turn power on again.

(2) Contact us if the problem still occurs.

A7141

No.	Name	Level	Reset
7141	CP13 TIME OUT ERROR(COM3)	Warning 1	WARN RESET

(Option)

Description: When input/output is made through external RS232C channel, data is not entered for more than the time set by the parameter.

The set value of the set data No.23 "RS232C (2) WATCH TIMER" setting is 10 sec.

Causes: Setting of external RS232C or external I/O unit.

Defect on brains part or main software.

Remedy: Confirm set data No.21 "RS232C (2) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7142

No.	Name	Level	Reset
7142	CP13 START, STOP ORDER ERROR(COM3)	Alarm 3	RESET

(Option)

Description: An error occurred when tape input or tape setting is started or ended using external RS232C channel.

Causes: Defect on brains part or main software.

Remedy:

(1) Turn power on again.

(2) Contact us if the problem still occurs.

A7148

No.	Name	Level	Reset
7148	CP13 FRAMING ERROR(COM3)	Warning 1	WARN RESET

(Option)

Description: During input/output by the external RS232C channel, data framing error is found (0 is detected by stop bit).

Causes: Specification error of stop bit length of external input/output equipment.

Specification error of data length of external input/output equipment.

Remedy: Confirm set data No.21 "RS232C (2) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7149

No.	Name	Level	Reset
7149	CP13 RX OVERRUN(COM3)	Warning 1	WARN RESET

(Option)

Description: Data is normally read in one character unit from the external RS232C channel but the channel is overrun and four characters or more are entered simultaneously.

Causes: Setting of external RS232C or external I/O unit.

Defect on brains part or main software.

Remedy: Confirm set data No.21 "RS232C (2) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7150

No.	Name	Level	Reset
7150	CP13 PARITY ERROR(COM3)	Warning 1	WARN RESET

(Option)

Description: When one character of data is read from the external RS232C channel, its odd/even parity is different from the specification.

Causes: Setting of external I/O unit.

Defect on brains part or main software.

Remedy: Confirm set data No.21 "RS232C (2) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7151

No.	Name	Level	Reset
7151	CP13 BUFFER OVERFLOW(COM3)	Warning 1	WARN RESET

(Option)

Description: While data is being read from the external RS232C channel, the input buffer overflow.

Causes: Setting of external I/O unit.

Defect on brains part or main software.

Remedy: Confirm set data No.21 "RS232C (2) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7152

No.	Name	Level	Reset
7152	CP13 TERMINAL NOT CONNECTED(COM3)	Warning 1	WARN RESET

(Option)

Description: Incorrect initialization of the external RS232C channel or the cable is defective or disconnected.

Causes: Poor RS232C connectors. Setting of external I/O unit.

Defect on brains part or main software.

Remedy: Check external RS232C connectors.

A7159

No.	Name	Level	Reset
7159	CP13 NON REGISTRY ALARM(COM3)	Alarm 3	RESET

(Option)

Description: Meaningless alarm is caused by external RS232C channel.

Causes: Defect on brains part or main software.

Remedy:

(1) Operate again or turn power on again.

(2) Contact us if the problem still occurs.

A7160

No.	Name	Level	Reset
7160	CN11 RESERVE, RELEASE ERROR(COM4)	Alarm 3	RESET

(Option)

Causes: Defect on main software.

Remedy:

(1) Turn power on again.

(2) Contact us if the problem still occurs.

A7161

No.	Name	Level	Reset
7161	CN11 TIME OUT ERROR(COM4)	Warning 1	WARN RESET

(Option)

Description: When input/output is made through external RS232C channel, data is not entered for more than the time set by the parameter.

The set value of the set data No.23 "RS232C (2) WATCH TIMER" setting is 10 sec.

Causes: Setting of external RS232C or external I/O unit.

Defect on brains part or main software.

Remedy: Confirm set data No.21 "RS232C (2) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7162

No.	Name	Level	Reset
7162	CN11 START, STOP ORDER ERROR(COM4)	Alarm 3	RESET

(Option)

Description: An error occurred when tape input or tape setting is started or ended using external RS232C channel.

Causes: Defect on brains part or main software.

Remedy:

(1) Turn power on again.

(2) Contact us if the problem still occurs.

A7168

No.	Name	Level	Reset
7168	CN11 FRAMING ERROR(COM4)	Warning 1	WARN RESET

(Option)

Description: During input/output by the external RS232C channel, data framing error is found (0 was detected by stop bit).

Causes: Specification error of stop bit length of external input/output equipment.

Specification error of data length of external input/output equipment.

Remedy: Confirm set data No.21 "RS232C (2) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7169

No.	Name	Level	Reset
7169	CN11 RX OVERRUN(COM4)	Warning 1	WARN RESET

(Option)

Description: Data is normally read in one character unit from the external RS232C channel but the channel is overrun and four characters or more are entered simultaneously.

Causes: Setting of external RS232C or external I/O unit.

Defect on brains part or main software.

Remedy: Confirm set data No.21 "RS232C (2) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7170

No.	Name	Level	Reset
7170	CN11 PARITY ERROR(COM4)	Warning 1	WARN RESET

(Option)

Description: When one character of data is read from the external RS232C channel, its odd/even parity is different from the specification.

Causes: Setting of external I/O unit.

Defect on brains part or main software.

Remedy: Confirm set data No.21 "RS232C (2) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7171

No.	Name	Level	Reset
7171	CN11 BUFFER OVERFLOW(COM4)	Warning 1	WARN RESET

(Option)

Description: While data is being read from the external RS232C channel, the input buffer overflow.

Causes: Setting of external I/O unit.

Defect on brains part or main software.

Remedy: Confirm set data No.21 "RS232C (2) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7172

No.	Name	Level	Reset
7172	CN11 TERMINAL NOT CONNECTED(COM4)	Warning 1	WARN RESET

(Option)

Description: Incorrect initialization of the external RS232C channel or the cable is defective or disconnected.

Causes: Poor RS232C connectors. Setting of external I/O unit.

Defect on brains part or main software.

Remedy: Check external RS232C connectors.

A7179

No.	Name	Level	Reset
7179	CN11 NON REGISTRY ALARM(COM4)	Alarm 3	RESET

(Option)

Description: Meaningless alarm is caused from the external RS232C channel.

Causes: Defect on brains part or main software.

Remedy:

- (1) Operate again or turn power on again.
- (2) Contact us if the problem still occurs.

A7180

No.	Name	Level	Reset
7180	CN12 RESERVE, RELEASE ERROR(COM5)	Alarm 3	RESET

(Option)

Causes: Defect on main software.

Remedy:

- (1) Turn power on again.
- (2) Contact us if the problem still occurs.

A7181

No.	Name	Level	Reset
7181	CN12 TIME OUT ERROR(COM5)	Warning 1	WARN RESET

(Option)

Description: When input/output is made through external RS232C channel, data is not entered for more than the time set by the parameter.

The set value of the set data No.23 "RS232C (2) WATCH TIMER" setting is 10 sec.

Causes: Setting of external RS232C or external I/O unit.

Defect on brains part or main software.

Remedy: Confirm set data No.21 "RS232C (2) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7182

No.	Name	Level	Reset
7182	CN121 START, STOP ORDER ERROR(COM5)	Alarm 3	RESET

(Option)

Description: An error occurred when tape input or tape setting is started or ended using external RS232C channel.

Causes: Defect on brains part or main software.

Remedy:

(1) Turn power on again.

(2) Contact us if the problem still occurs.

A7188

No.	Name	Level	Reset
7188	CN12 FRAMING ERROR(COM5)	Warning 1	WARN RESET

(Option)

Description: During input/output by the external RS232C channel, data framing error is found (0 was detected by stop bit).

Causes: Specification error of stop bit length of external input/output equipment.

Specification error of data length of external input/output equipment.

Remedy: Confirm set data No.21 "RS232C (2) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7189

No.	Name	Level	Reset
7189	CN12 RX OVERRUN(COM5)	Warning 1	WARN RESET

(Option)

Description: Data is normally read in one character unit from the external RS232C channel but the channel is overrun and four characters or more were entered simultaneously.

Causes: Setting of external RS232C or external I/O unit.

Defect on brains part or main software.

Remedy: Confirm set data No.21 "RS232C (2) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7190

No.	Name	Level	Reset
7190	CN12 PARITY ERROR(COM5)	Warning 1	WARN RESET

(Option)

Description: When one character of data is read from the external RS232C channel, its odd/even parity is different from the specification.

Causes: Setting of external I/O unit.

Defect on brains part or main software.

Remedy: Confirm set data No.21 "RS232C (2) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7191

No.	Name	Level	Reset
7191	CN12 BUFFER OVERFLOW(COM5)	Warning 1	WARN RESET

(Option)

Description: While data is being read from the external RS232C channel, the input buffer overflow.

Causes: Setting of external I/O unit.

Defect on brains part or main software.

Remedy: Confirm set data No.21 "RS232C (2) BAND", No.25 "RS232C INPUT", and No.26 "RS232C OUTPUT" and set value of external Systems connected again.

A7192

No.	Name	Level	Reset
7192	CN12 TERMINAL NOT CONNECTED(COM5)	Warning 1	WARN RESET

(Option)

Description: Incorrect initialization of the external RS232C channel or the cable is defective or disconnected.

Causes: Poor RS232C connectors. Setting of external I/O unit.

Defect on brains part or main software.

Remedy: Check external RS232C connectors.

A7199

No.	Name	Level	Reset
7199	CN12 NON REGISTRY ALARM(COM5)	Alarm 3	RESET

(Option)

Description: Meaningless alarm is caused by external RS232C channel.

Causes: Defect on brains part or main software.

Remedy:

- (1) Operate again or turn power on again.
- (2) Contact us if the problem still occurs.

A7200

No.	Name	Level	Reset
7200	IO CARD 1 ERROR	Alarm 2	RESET

Description: The FPGA in EIF card cannot work.

Causes:

- (1) Wrong connection of J6 connector (ID related).
- (2) Wrong rotary switch setting.
- (3) The defective EIFR card.
- (4) The defective EIF card.

Remedy:

- (1) Check the connection.
- (2) Check the rotary switch.
- (3) Replace the EIFR card.
- (4) Replace the EIF card.

A7201

No.	Name	Level	Reset
7201	IO CARD 2 ERROR	Alarm 2	RESET

Description: The FPGA in EIF card cannot work.

Causes:

- (1) Wrong connection of J6 connector (ID related).
- (2) Wrong rotary switch setting.
- (3) The defective EIFR card.
- (4) The defective EIF card.

Remedy:

- (1) Check the connection.
- (2) Check the rotary switch.
- (3) Replace the EIFR card.
- (4) Replace the EIF card.

A7300

No.	Name	Level	Reset
7300	EIS NOT CONNECTED	Alarm 3	RESET

Description: Poor EIS part connections.

Causes: Defective EIS part.

Poor EIS part connections.

Remedy: Turn power on again.

Check EIS part connectors.

Contact to us for repair.

A7301

No.	Name	Level	Reset
7301	EIS TIME OUT ERROR	Alarm 3	See Remedy

Description: When axis was moved and the machining condition was changed, with EIS card a response was not received within 1 - 3 seconds.

Causes: The signal communication between VMC and EIS. Defective brains part or main software.

Remedy:

- (1) Press the [RESET] key or turn power on again.
- (2) In case of frequent occurrence, contact to us for repair.

A7302

No.	Name	Level	Reset
7302	SEND TO EIS NOT OK	Alarm 3	See Remedy

Description: Axis movement or machining condition command cannot be transferred to the EIS card.

Causes: Defective EIS or VMC.

Poor EIS connections.

Remedy:

- (1) Press the [RESET] key or turn power on again.
- (2) In case of frequent occurrence, contact to us for repair.

A7303

No.	Name	Level	Reset
7303	ERRONEOUS INTERRUPT FROM EIS	Alarm 3	See Remedy

Description: Unexpected interruption was caused from the EIS part.

Causes: Defective EIS.

Defective main software.

Remedy:

- (1) Press the [RESET] key or turn power on again.
- (2) In case of frequent occurrence, contact to us for repair.

A7304

No.	Name	Level	Reset
7304	EIS RESPONSE LENGTH ERROR	Alarm 3	See Remedy

Description: Response format error of data reception was caused from the EIS card.

Causes: Defective EIS.

Defective EIS-ROM.

Remedy:

- (1) Press the [RESET] key or turn power on again.
- (2) In case of frequent occurrence, contact to us for repair.

A7305

No.	Name	Level	Reset
7305	EIS PARAMETER INITIALIZE NOT OK	Alarm 3	See Remedy

Description: EIS card cannot be initialized at power on.

Causes: Please confirm the following items when this problem occurs.

- Confirm if the drive unit is functional
- Check cables connection
- Check amplifier terminal (Check dummy connector)

Remedy:

- (1) Turn power on again.
- (2) In case of frequent occurrence, contact to us for repair.

A7306

No.	Name	Level	Reset
7306	WRONG OR DAMAGED EIS CARD MOUNTED	Alarm 3	RESET

Causes: EIS card in use is not suitable in combination or EIS common RAM is faulty.

The cable or terminator of drive unit is not connected or it is disconnected.

Remedy: Apply the normal EIS card.

A7307

No.	Name	Level	Reset
7307	EIS-ASC ERROR	Alarm 3	RESET

Causes:

- (1) The number of axes set to drive unit is less than that set to the parameter. Or, the axis No. setting on the drive unit is wrong.
- (2) The axis No. setting (rotary switch) on the drive unit is overlapped.
- (3) The drive unit is defective and it cannot communicate with the EIS.

Remedy:

- (1) Check the number of drive units and the parameter, and then change the parameter or axis number setting of drive unit.
- (2)~ (3) Contact us of the trouble procedure.

A7308

No.	Name	Level	Reset
7308	INDAX INITIALIZE ERROR	Alarm 3	RESET

(Option)

Causes: Other loader axis related request was sent before the loader axis initialised.

Remedy:

- (1) Retry the operation or restart the NC.
- (2) If this alarm occurs frequently, please contact us and inform about the situations where the alarm occurred.

A7321

No.	Name	Level	Reset
7321	EIS (LOCAL) ROM ERROR	Alarm 3	RESET

Description: EIS card ROM failed.

Causes: Defective ROM on EIS.

Remedy:

- (1) Turn power on again.
- (2) In case of frequent occurrence, contact to us for repair.

A7322

No.	Name	Level	Reset
7322	EIS (LOCAL) RAM ERROR	Alarm 3	See Remedy

Description: EIS card RAM failed.

Causes: Defective RAM on EIS.

Remedy:

- (1) Turn power on again.
- (2) In case of frequent occurrence, contact to us for repair.

A7323

No.	Name	Level	Reset
7323	EIS (LOCAL) EXECUTION OF NON-CODE SECTION	Alarm 3	See Remedy

Description: Soft error of EIS.

Causes: Defective ROM on EIS.

Remedy:

- (1) Turn power on again.
- (2) In case of frequent occurrence, contact to us for repair.

A7324

No.	Name	Level	Reset
7324	EIS (LOCAL) ASC TIME OUT ERROR	Alarm 3	See Remedy

Description: When axis movement data was output from the EIS part to the controller of drive unit, response was not made within the fixed time.

Causes: Defective the drive unit.

Incorrect VMC part DIC switch setting.

Remedy:

- (1) Turn power on again.
- (2) In case of frequent occurrence, contact to us for repair.

A7325

No.	Name	Level	Reset
7325	EIS (LOCAL) IO TIME OUT ERROR	Alarm 3	See Remedy

Description: When EIS card is use, I/O operation are done to controller of drive unit and resulted in time out.

Causes: EIS card is faulty.

The ROM of EIS is faulty.

Remedy: Contact us of it because the cards must be changed according to the trouble.

A7331

No.	Name	Level	Reset
7331	EIS (LOCAL) MEMORY FULL	Alarm 3	See Remedy

Description: Interpolation block of EIS is full.

Causes: The ROM of EIS is faulty.

Defective FROM (main software).

Remedy: Contact us of the trouble because ROM system may be faulty.

A7332

No.	Name	Level	Reset
7332	EIS (LOCAL) DEAD LOCK	Alarm 3	See Remedy

Causes: ROM system of EIS or EIS part is faulty.

Remedy: Contact us of it because the ROM system of EIS or EIS part must be changed.

A7333

No.	Name	Level	Reset
7333	CURRENT POSITION IS OUT OF SOFT LIMIT	Alarm 2	RESET

Causes: While the soft limit is valid, the machine coordinate exceeds the stroke limit at the servo on or at the completion of reference return operation.

Remedy: In the manual mode (JOG or STEP), move the axis in reverse direction of over travel.

A7341

No.	Name	Level	Reset
7341	NO BACK BLOCK	Warning 3	WARN RESET

Description: Electrode and work are in contact due to machining chips.

Causes: There is no reverse block due to in-pole back signal even after being reversed to the worked block start point.

Remedy:

- (1) Reset the contact between the electrode and workpiece (remove chips by (RETRACT) etc.).
- (2) Reconfirm the jump function (amount, cycle, speed).
- (3) Review the program, etc. to make sure that no chips stay behind as the machining progresses.

A7342

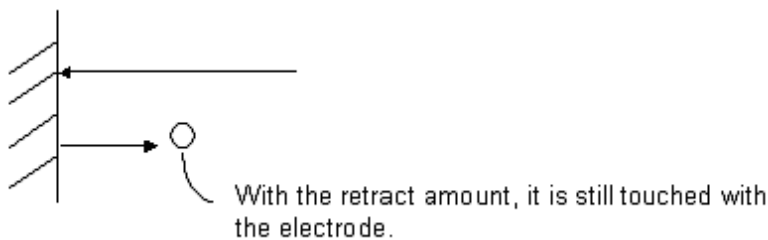
No.	Name	Level	Reset
7342	SHORT ACROSS ELECTRODE-WORK	Alarm 2	RESET

Causes:

- (1) At the measurement, the first touch occurred and retract block was made, however the workpiece is still touching the electrode.
- (2) At the measurement, the electrode already touches the workpiece. (Manual/automatic measurement)

Remedy:

- (1) Clean the contacting surfaces (extraneous matter such as chips may be stuck to the touched part).
- (2) The holding conditions of the electrode and the workpiece (a long electrode may be leaned).
- (3) At the measurement the retract amount was not made suitably (machine parameter No.0601 "the retract amount").

**A7343**

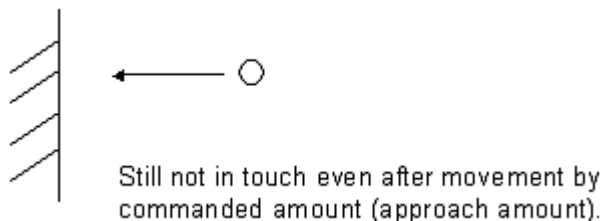
No.	Name	Level	Reset
7343	MEASURE APPROACH ERROR	Alarm 2	RESET

Causes:

- (1) At the time of automatic measurement (G84, G85, G86: canned cycle), the designated traveling distance (approach amount) was finished before the electrode and work come in contact.
- (2) In manual measurement, after first touch sensing, the electrode was retracted once, then again approach was made but the electrode did not touch the workpiece.

Remedy:

- (1) Commanded movement (approach amount) insufficient.
- (2) Clean the touch surface.
- (3) Check if the electrode and workpiece are clamped properly.



A7344

No.	Name	Level	Reset
7344	P4,5 MACHINING ALARM	Alarm 3	RESET

Causes:

- (1) The pattern radius ratio to the Z axis is large ($Z/R < 15/100$) .
- (2) In the P4 pattern, the Z axis command value is over 16.384.

Remedy:

- (1) Correct the command value of Z axis and pattern radius.
- (2) Correct the command value of Z axis.

A7345

No.	Name	Level	Reset
7345	BACK LENGTH OVER AT MC	Warning 3	WARN RESET

Causes: The reverse amount due to the gap short (arc is generated), etc. during machining exceeds the value set to the parameter No.0610"BACK LENGTH SET AT MC".

Remedy: Press the [RETRACT] key for the relief operation, remove a cause of arc or short, and restart. In case of frequent occurrence by machining condition and so on, please take note the situation of occurrence and contact us.

A7349

No.	Name	Level	Reset
7349	EIS NON REGISTRY ALARM	Alarm 3	RESET

Description: Meaningless alarm from EIS part.

Causes: Defective EIS part.

Remedy:

- (1) Operate again or turn power on again.
- (2) In case of frequent occurrence, contact to us for repair.

A10003 A10004

No.	Name	Level	Reset
10003	PROC WAS INTERRUPTED BY ERROR.(NCAPI A-VOH:)	Guide	WARN RESET
10004	PROC WAS INTERRUPTED BY ERROR.(NCAPI VMC:)	Guide	WARN RESET

Causes: System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message No .

A10005 A10019

No.	Name	Level	Reset
10005	PROC WAS INTERRUPTED BY ERROR. TURN OFF AND ON THE POWER	Dialog	See Remedy
10006	PROC WAS INTERRUPTED BY ERROR. TURN OFF AND ON THE POWER, OR SCREEN REBOOT WITH [REBOOT] BUTTON AFTER PUSHING [STOP]/ [RESET] KEY.	Dialog	See Remedy
10011	DPRAM CMMD PACKAGE WRITE ERROR (VMC ACCESS LIBRARY ERROR)	Dialog	See Remedy
10012	RESPONSE WAITING TIME-OUT ON NC SIDE (VMC ACCESS LIBRARY ERROR)	Dialog	See Remedy
10014	MEMORY POOL FULL (VMC ACCESS LIBRARY ERROR)	Dialog	See Remedy
10015	MEMORY POOL FAILED (VMC ACCESS LIBRARY ERROR)	Dialog	See Remedy
10016	SHARED EVENT FULL VMC ACCESS LIBRARY ERROR)	Dialog	See Remedy
10017	SHARED EVENT FAILED (VMC ACCESS LIBRARY ERROR)	Dialog	See Remedy
10018	ARGUMENT ERROR VMC ACCESS LIBRARY ERROR)	Dialog	See Remedy
10019	NC RESOURCE ACCESS FAILED (VMC ACCESS LIBRARY ERROR)	Dialog	See Remedy

Causes: System error.

Remedy:

- (1) Turn off the power switch once and then turn it on again, or press the [SCREEN REBOOT] button.
- (2) If this message is displayed frequently, please contact us after confirming the situations where the message is given, and the message number and error value in the dialog box.

A10021

No.	Name	Level	Reset
10021	PLEASE WAIT FOR THE SCREEN OPERATION FOR A WHILE	Guide	WARN RESET

Causes: It attaches during starting and communication of screen operation and a display is a busy state.
Or, System error.

Remedy:

- (1) Please wait for the renewal of screen operation / display until the message disappears.
- (2) Even if it will be in a pause and a reset state, when the message does not disappear, please contact us after confirming a generating situation and the contents of a message.

A10022

No.	Name	Level	Reset
10022	A MOMENTARY POWER FAILURE OCCURRED. PLEASE TURN OFF THE POWER ONCE.	Guide	WARN RESET

Description: A momentary power failure has occurred. NC program related processing (VMC) is stopped and message is being displayed. When the message appears, please turn off the power once.

A10030 A10063

No.	Name	Level	Reset
10030	NCAPI CAUSED ERROR (CLASS LIB ERROR)	Dialog	See Remedy
10033	USER SPECIFIED BUFFER POINTER IS NULL (CLASS LIB ERROR)	Dialog	See Remedy
10034	THREAD CAN'T START IN ASYNC PROC CLASS LIB ERROR)	Dialog	See Remedy
10035	SHARED EVENT BETWEEN PROCESSES CAN'T ACQUIRED (CLASS LIB ERROR)	Dialog	See Remedy
10036	INTERNAL RESOURCES (MEMORY, EVENT) CAN'T ACQUIRED (CLASS LIB ERROR)	Dialog	See Remedy
10037	ILLEGAL DATA AREA SIZE SPECIFIED CLASS LIB ERROR)	Dialog	See Remedy
10038	MEMORY POOL IN DATA AREA CAN'T ACQUIRED (CLASS LIB ERROR)	Dialog	See Remedy
10039	MEMORY POOL FOR SIZE STORING CAN'T ACQUIRED (CLASS LIB ERROR)	Dialog	See Remedy
10040	ASYNC PROCESSING THREAD END TIME-OUT(CLASS LIB ERROR)	Dialog	See Remedy
10042	ASYNC PROCESSING THREAD END TIME -OUT(CLASS LIB ERROR)	Dialog	See Remedy
10045	UNEXPECTED WINAPI ERROR IN EVENT WAITING (CLASS LIB ERROR)	Dialog	See Remedy
10051	RESOURCE MANAGE. NOT INITIALIZED (NCAPI RESPONSE ERROR)	Dialog	See Remedy
10052	ILLEGAL FUNCTION NO. NCAPI RESPONSE ERROR)	Dialog	See Remedy
10053	FUNCTION CLASSIFICATION OUT OF RANGE (NCAPI RESPONSE ERROR)	Dialog	See Remedy
10054	OPERATION CLASSIFICATIN OUT OF RANGE (NCAPI RESPONSE ERROR)	Dialog	See Remedy
10055	MODE ID OUT OF RANGE (NCAPI RESPONSE ERROR)	Dialog	See Remedy
10056	START REGISTRATION FAILED (NCAPI RESPONSE ERROR)	Dialog	See Remedy
10057	ILLEGAL MANAGEMENT NO. (NCAPI RESPONSE ERROR)	Dialog	See Remedy
10058	RUN FUNCTION NOT FOUND (NCAPI RESPONSE ERROR)	Dialog	See Remedy
10059	DATA TABLE OF LINK TABLES NOT FOUND (NCAPI RESPONSE ERROR)	Dialog	See Remedy
10060	OPE MANAGEMENT OF LINK TABLES NOT OBTAINED (NCAPI RESPONSE ERROR)	Dialog	See Remedy
10061	EMPTY AREA FOR NOTICE WAITING NOT FOUND (NCAPI RESPONSE ERROR)	Dialog	See Remedy
10062	EMPTY AREA FOR NOTICE WAITING NOT FOUND (NCAPI RESPONSE ERROR)	Dialog	See Remedy
10063	REQUEST ALREADY BEING EXECUTED (NCAPI RESPONSE ERROR)	Dialog	See Remedy

Causes: System error.

Remedy:

- (1) Turn off the power switch once and then turn it on again, or press the [SCREEN REBOOT] button.
- (2) If this message is displayed frequently, please contact us after confirming the situations where the message is given, and the message number and error value in the dialog box.

A10066 A10103

No.	Name	Level	Reset
10066	THE ERROR OCCURRED IN COMMUNICATION WITH EQUIPMENT (REMOTE).	Guide	WARN RESET
10067	IT IS CUTTING UNDER PROCESSING WHETHER COMMUNICATION WITH EQUIPMENT WAS CUT (REMOTE).	Guide	WARN RESET
10068	THE TIMEOUT OCCURRED IN COMMUNICATION WITH EQUIPMENT	Guide	WARN RESET
10069	COMMAND RECEIVING THREAD STARTING WENT WRONG (REMOTE).	Guide	WARN RESET
10070	SINCE THE NUMBER OF THE MAXIMUM USERS CONNECTABLE WITH EQUIPMENT WAS EXCEEDED, IT IS NOT CONNECTABLE (REMOTE).	Guide	WARN RESET
10071	ACCESS TO EQUIPMENT IS NOT PERMITTED (REMOTE).	Guide	WARN RESET
10072	SHARED RESOURCE ACQUISITION (MEMORY POOL ETC.) WENT WRONG BY THE EQUIPMENT SIDE (REMOTE).	Guide	WARN RESET
10073	THE EQUIPMENT NAME TO CONNECT IS NOT SPECIFIED (REMOTE).	Guide	WARN RESET
10074	GENERATION OF A SOCKET WENT WRONG (REMOTE).	Guide	WARN RESET
10075	THE APPOINTED EQUIPMENT NAME IS NOT FOUND ON A NETWORK (REMOTE).	Guide	WARN RESET
10076	CONNECTION WAS NOT COMPLETED WITHIN REGULATION TIME TO THE APPOINTED EQUIPMENT (REMOTE).	Guide	WARN RESET
10077	THE OPERATION ID OF A SPECIFICATION COMMAND IS RESTRICTED (REMOTE).	Guide	WARN RESET
10078	THE FUNCTION ID OF A SPECIFICATION COMMAND IS RESTRICTED (REMOTE).	Guide	WARN RESET
10079	OPERATION ID AND FUNCTION ID OF A SPECIFICATION COMMAND ARE RESTRICTED (REMOTE).	Guide	WARN RESET
10080	THE VMC DRIVER CALL WENT WRONG BY THE EQUIPMENT SIDE (REMOTE).	Guide	WARN RESET
10081	A RESPONSE UNNECESSARY SYNCHRONOUS COMMAND PACKET IS UN-SUPPORTING (REMOTE).	Guide	WARN RESET
10082	THE APPOINTED BUFFER SIZE IS LARGER THAN A REGULATION VALUE AT RMAPI	Guide	WARN RESET
10083	THE POINTER TO A SPECIFICATION BUFFER IS INVALID (NULL) IN RMAPI	Guide	WARN RESET
10084	THE APPOINTED RMAPI FUNCTION WAS NOT FOUND (REMOTE)	Guide	WARN RESET
10085	RMAPI.DLL HAS NOT BEEN LOADED BY THE EQUIPMENT SIDE (REMOTE)	Guide	WARN RESET
10086	THERE WAS NO RESPONSE FROM EQUIPMENT TO A SPECIFICATION	Guide	WARN RESET
10087	SINCE THE PROCESSING BY THE SIDE OF EQUIPMENT WAS BUSY, IT HAS NOT ANSWERED (REMOTE).	Guide	WARN RESET
10101	READ ACCESS FAILED	Guide	WARN RESET
10102	WRITE ACCESS FAILED (WRITE-PROTECTED DATA, ETC.)	Guide	WARN RESET
10103	PARAMETER INJUSTICE	Guide	WARN RESET

Causes: System error.

Remedy:

- (1) Turn off the power switch once and then turn it on again, or press the [SCREEN REBOOT] button.
- (2) If this message is displayed frequently, please contact us after confirming the situations where the message is given, and the message number and error value in the dialog box.

A10104

No.	Name	Level	Reset
10104	WRITING ERROR DURING AXIS ALLOCATION	Guide	WARN RESET

Causes: Rewriting operation was attempted during the axis allocation or in the manual zero return mode

Remedy: Retry after the axis allocation finished or manual zero return mode was cancelled.

A10105

No.	Name	Level	Reset
10105	WRITING ERROR DURING AUTOMATIC RUN	Guide	WARN RESET

Causes: Rewriting operation was attempted during automatic operation.

Remedy: Retry in the reset status after automatic operation finished

A10106

No.	Name	Level	Reset
10106	WRITE-PROTECT STATUS	Guide	WARN RESET

Causes: Rewriting operation was attempted in the write-protect status.

Remedy: Retry after the write-protect was cancelled.

A10107

No.	Name	Level	Reset
10107	SET VALUE OUT OF RANGE	Guide	WARN RESET

Causes: The set value is out of allowable range.

Remedy: Check the set value.

A10108

No.	Name	Level	Reset
10108	INDIRECT EDH VALUE OUT OF RANGE	Guide	WARN RESET

Causes: The INDIRECT EDH value is out of allowable range.

Remedy: Check the set value.

A10109

No.	Name	Level	Reset
10109	NOTICE PACKET LENGTH ERROR	Guide	WARN RESET

Causes: System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10110 A10112

No.	Name	Level	Reset
10110	ILLEGAL MODE COMMAND MASKING	Guide	WARN RESET
10111	RUN MODE NOT DETERMINED YET	Guide	WARN RESET
10112	UNREGISTERED POSITION INFORMATION ID SPECIFIED(KEY)	Guide	WARN RESET

Causes: (KEYCON) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10113

No.	Name	Level	Reset
10113	ILLEGAL WORK COORD. NO.	Guide	WARN RESET

Causes: The specified work coordinate number is out of allowable range.

Remedy: Specify correct work coordinate number, and retry the operation.

Work coordinate numbers: 54 - 61

A10114

No.	Name	Level	Reset
10114	ILLEGAL WORK COORD. GROUP NO.	Guide	WARN RESET

Causes: The specified work coordinate group number is out of allowable range.

Remedy: Specify correct work coordinate group number, and retry the operation.

Work coordinate group numbers: 500 - 509

A10115 A10116

No.	Name	Level	Reset
10115	UNREGISTERED UNIT SPECIFIED(KEY)	Guide	WARN RESET
10116	UNREGISTERED ACCURACY SPECIFIED (KEY)	Guide	WARN RESET

Causes: (KEYCON) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10117

No.	Name	Level	Reset
10117	DISPLAY AXIS NOT FOUND	Guide	WARN RESET

Causes: NC axis is not set.

Remedy:

- (1) Check the set value of parameter No.0500 "NC AXIS QUANTITY".
- (2) Contact to us of the trouble condition.

A10118

No.	Name	Level	Reset
10118	VALID AXIS NOT FOUND IN SET COORD.COMMAND	Guide	WARN RESET

Causes: There is no valid axis when work coordinate and relative coordinate are set.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10119

No.	Name	Level	Reset
10119	INT PROC ERROR(PRTBL SW UNFIXED)(KEY)	Guide	WARN RESET

Causes: The JOG feed rate has not been selected yet with the portable operation panel.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10120 A10123

No.	Name	Level	Reset
10120	CANCELLED BY COMMAND SIMILAR TO THAT BEING RUN(KEY)	Guide	WARN RESET
10121	OPERATION MANAGE TABLE FOR REQUEST NOT FOUND(KEY)	Guide	WARN RESET
10122	SET ERROR OF RUN MOD CHANGE OPE(KEY)	Guide	WARN RESET
10123	SET ERROR OF RUN MOD CHANGE OPE(KEY)	Guide	WARN RESET

Causes: (KEYCON) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10124

No.	Name	Level	Reset
10124	LOW FEED DISABLED AS TOUCH SENSING IS EFFECTIVE	Guide	WARN RESET

Causes: An attempt to select low feed rate was made while the touch sensing is active.

Remedy: Select the touch sensing disable function, then select the low feed rate.

A10125

No.	Name	Level	Reset
10125	TOUCH SENS DISABLED AS TOUCH SENS IS NOT EFFECTIVE	Guide	WARN RESET

Causes: An attempt to select the touch sensing was made while the touch sensing disable function is active.

Remedy: Select the touch sensing enable function, then select the touch sensing.

A10126

No.	Name	Level	Reset
10126	ORIGIN RETURN DISABLED AS STEP FEED IS OPERATING	Guide	WARN RESET

Causes: An attempt to select the zero return was made during the step feed.

Remedy: Select other than the step feed, then retry zero return operation.

A10129 A10130

No.	Name	Level	Reset
10129	UNDEFINED ERROR DURING RUN MODE CHANGE REQUEST	Guide	WARN RESET
10130	REQUESTED RUN MODE SETTING FAILURE	Guide	WARN RESET

Causes: (KEYCON) System error.

Remedy:

(1) Operate again.

(2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10131

No.	Name	Level	Reset
10131	REQUESTED RUN MODE CHANGE FAILED	Guide	WARN RESET

Causes: Changeover of operation mode failed.

Remedy:

(1) Operate again.

(2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10132

No.	Name	Level	Reset
10132	RUN MODE CHANGE TIME-OUT	Guide	WARN RESET

Causes: The operation mode could not be changed over within the specified time.

Remedy:

(1) Operate again.

(2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10133 A10139

No.	Name	Level	Reset
10133	ILLEGAL WRITE DEST COORD ID (KEY)	Guide	WARN RESET
10134	ILLEGAL READ MODAL VALUE	Guide	WARN RESET
10135	ILLEGAL READ MODAL ID	Guide	WARN RESET
10136	ILLEGAL INTERRUPT REQUEST DESIGNATION ID(KEY)	Guide	WARN RESET
10137	ILLEGAL INTERRUPT CHANGE REQUEST SET(KEY)	Guide	WARN RESET
10138	ILLEGAL INTERRUPT MODE DURING RUN(KEY)	Guide	WARN RESET
10139	OPERATION STATUS UNDEFINED ERROR(KEY)	Guide	WARN RESET

Causes: (KEYCON) System error.

Remedy:

(1) Operate again.

(2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10141 A10148

No.	Name	Level	Reset
10141	1 USER REFERENCE RESOURCE(REF)	Guide	WARN RESET
10142	UNDEFINED RESOURCE ID SPECIFIED(REF)	Guide	WARN RESET
10143	CONSTANT UPDATE AREA FULL(REF)	Guide	WARN RESET
10144	ILLEGAL END SPECIFYING RESOURCE ID(REF)	Guide	WARN RESET
10145	END SPECIFYING RESOURCE ALREADY	Guide	WARN RESET
10146	AREA INTERLOCK ERROR OCCURRED(REF)	Guide	WARN RESET
10147	NO RESOURCE ACCESS RIGHT(REF)	Guide	WARN RESET
10148	UNDEFINED ERROR OCCURRED(REF)	Guide	WARN RESET

Causes: (REFRESH) System error.

Remedy:

(1) Operate again.

(2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10150

No.	Name	Level	Reset
10150	SPECIFIED PARAMETER NO. NOT FOUND	Guide	WARN RESET

Causes: A number not entered was specified.

Remedy: Check the input command value.

A10151

No.	Name	Level	Reset
10151	ILLEGAL UNIT COMMAND	Guide	WARN RESET

Causes: The specified axis command is incorrect.

Remedy: Check the input command value.

A10152

No.	Name	Level	Reset
10152	UCNV CONVERSION RESULT UNFIXED	Guide	WARN RESET

Causes: (SET) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10153

No.	Name	Level	Reset
10153	ILLEGAL REWRITING SPECIFIED	Guide	WARN RESET

Causes: The specified parameter value setting method is wrong.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10154

No.	Name	Level	Reset
10154	UNDEFINED ERROR (SET)	Guide	WARN RESET

Causes: (SET) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10156

No.	Name	Level	Reset
10156	OFFSET RESOURCE ACCESS ERROR(SET)	Guide	WARN RESET

Causes: Offset data writing failed.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10157

No.	Name	Level	Reset
10157	ILLEGAL OFFSET RESOURCE COMMAND ID (SET)	Guide	WARN RESET

Causes: (SET) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10158

No.	Name	Level	Reset
10158	ILLEGAL OFFSET NO. RANGE	Guide	WARN RESET

Causes: The specified offset number is out of allowable range.

Remedy:

- (1) Check the offset number, and retry.
- (2) Contact to us of the trouble condition.

A10159

No.	Name	Level	Reset
10159	WORK OFFSET GROUP NO. OUT OF RANGE	Guide	WARN RESET

Causes: The specified work offset group number is out of allowable range.

Remedy:

- (1) Check the work offset group number, and retry.
- (2) Contact to us of the trouble condition.

A10160

No.	Name	Level	Reset
10160	UNIT AND AXIS ATTRIBUTE INCONSISTENT	Guide	WARN RESET

Causes: The axis attribute and unit for the specified offset are inconsistent.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10161

No.	Name	Level	Reset
10161	WRITE-PROTECTED OFFSET SPECIFIED	Guide	WARN RESET

Causes: An attempt to rewrite the write-protected center offset was made.

Remedy:

- (1) Check the contents of operation.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10162

No.	Name	Level	Reset
10162	TOOL WORK UNREGISTRATION ERROR(SET)	Guide	WARN RESET

Causes: (SET) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10164

No.	Name	Level	Reset
10164	ALARM MANAGEMENT UNREGISTRATION ERROR(DGN)	Guide	WARN RESET

Causes: (DGN) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10166

No.	Name	Level	Reset
10166	DISCRETE WRITING FAILED	Guide	WARN RESET

Causes: Discrete data writing failed.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10167

No.	Name	Level	Reset
10167	INVALID BECAUSE OF OPTION	Guide	WARN RESET

Description: The function button for an optional specification is operated.

A10168

No.	Name	Level	Reset
10168	INVALID FOR MODE OTHER THAN MANUAL	Guide	WARN RESET

Causes: The function valid only in MANUAL mode was operated.

Remedy: Change to MANUAL mode and then, operate again.

A10169

No.	Name	Level	Reset
10169	INVALID START STATUS	Guide	WARN RESET

Causes: An attempt to operate the function, which is only valid when the START lamp is off, was made.

Remedy: [STOP] or [RESET] mode and then, operate again.

A10170

No.	Name	Level	Reset
10170	INVALID FOR MODE OTHER THAN MANUAL AND RESET	Guide	WARN RESET

Causes: The function valid only in MANUAL mode and under reset state was operated.

Remedy: Reset and change to MANUAL mode and then, operate again.

A10171

No.	Name	Level	Reset
10171	THE FUNCTION KEY DEPRESSED IS INVALID	Guide	WARN RESET

Causes: An attempt to operate the function was made while the axis allocation is under way, manual zero return mode is active, or the program is being executed or started.

Remedy: Retry after the axis allocation finished, manual zero return mode was cancelled, or in the stop or reset status.

A10172 A10175

No.	Name	Level	Reset
10172	DUMMY SIGNAL IS INVALID	Guide	WARN RESET
10173	INPUT SIGNAL IS INVALID	Guide	WARN RESET
10174	FUNCTION SWITCH MANAGEMENT ID OUT OF RANGE(NCF)	Guide	WARN RESET
10175	I/O MANAGEMENT UNREGISTRATION ERROR(NCF)	Guide	WARN RESET

Causes: (NCFUNC) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10177

No.	Name	Level	Reset
10177	PROGRAM RUN MANAGEMENT UNREGISTRATION ERROR (AUT)	Guide	WARN RESET

Causes: (AUTOMAN) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10179

No.	Name	Level	Reset
10179	MACRO RESOURCE MANAGEMENT UNREGISTRATION ERROR (EXE)	Guide	WARN RESET

Causes: (EXEPRG) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10183

No.	Name	Level	Reset
10183	UI MONITORING IS NOT EFFECTIVE	Guide	WARN RESET

Causes: (UIWATCH) UI monitoring is not effective.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10185

No.	Name	Level	Reset
10185	DOUBLE BOOKING ERROR	Guide	WARN RESET

Causes: System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10187 A10191

No.	Name	Level	Reset
10187	UNIT CONVERSION PROCESSING ERROR(CND)	Guide	WARN RESET
10188	ILLEGAL ELEMENT NO. SELECTED(CND)	Guide	WARN RESET
10189	GET ELEMENT SPECIFIED WITH PUT(CND)	Guide	WARN RESET
10190	RESOURCE ERROR RESPONSE VALID(CND)	Guide	WARN RESET
10191	ILLEGAL NOTICE WAITING ITEM SELECTED(CND)	Guide	WARN RESET

Causes: (COND) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10192 A10195

No.	Name	Level	Reset
10192	MODEL DRAWING DISABLED(CND)	Guide	WARN RESET
10193	MODEL DRAWING CHANGE DISABLED(CND)	Guide	WARN RESET
10194	ILLEGAL MODEL DRAWING AXIS COMMAND(CND)	Guide	WARN RESET
10195	ILLEGAL MODEL DRAWING CYCLE(CND)	Guide	WARN RESET

Causes: (COND) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10196

No.	Name	Level	Reset
10196	MODEL DRAWING DATA NOT FOUND(CND)	Guide	WARN RESET

Description: There is no drawing data on the MODEL MONITOR screen.

A10197

No.	Name	Level	Reset
10197	MODEL DRAWING INVALID(CND)	Guide	WARN RESET

Description: The drawing on the MODEL MONITOR screen is invalid.

A10198

No.	Name	Level	Reset
10198	ORBITING RADIUS READING ERROR(CND)	Guide	WARN RESET

Causes: Reading of radius for pattern operation failed.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10199

No.	Name	Level	Reset
10199	IES FUNCTION ON SWITCHING DISABLED (CND)	Guide	WARN RESET

Causes: An attempt to turn on the IES function by manual operation was made.

Remedy: To enable the IES function by manual operation, turn on the bit 6 of parameter No.46 "MC COND. FUNCTION SELECT 2", then retry.

A10200 A10201

No.	Name	Level	Reset
10200	IES REQUEST DECODING TABLE ERROR(CND)	Guide	WARN RESET
10201	COMMAND CONTROL TABLE DECODING ERROR (CND)	Guide	WARN RESET

Causes: (COND) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10202

No.	Name	Level	Reset
10202	SPECIFIED MODEL DATA NO. OUT OF RANGE	Guide	WARN RESET

Causes: The specified model data number is out of allowable range.

Remedy: Check the entered value. Model data numbers: 0 - 99

A10203

No.	Name	Level	Reset
10203	STANDARD CONDITION REWRITING DISABLED(CND)	Guide	WARN RESET

Causes: An attempt to rewrite the write-protected machining conditions or model data was made.

Remedy: Check the entered value.

A10204

No.	Name	Level	Reset
10204	ILLEGAL COMMENT REWRITING POSITION	Guide	WARN RESET

Causes: The writing position of a comment for model data is wrong.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10205

No.	Name	Level	Reset
10205	UNDEFINED ERROR (CND)	Guide	WARN RESET

Causes: (COND) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10207

No.	Name	Level	Reset
10207	ILLEGAL COMMENT REWRITING POSITION (MDL)	Guide	WARN RESET

Causes: System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10209

No.	Name	Level	Reset
10209	SCHEDULE MANAGEMENT TASK ERROR	Guide	WARN RESET

Causes: (SCHEDULE) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10211 A10212

No.	Name	Level	Reset
10211	ILLEGAL INTERNAL RESOURCE ID	Guide	WARN RESET
10212	SPECIFIED RESOURCE AREA FULL	Guide	WARN RESET

Causes: (MODEL) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10213

No.	Name	Level	Reset
10213	SPECIFIED VARIABLE NO. NOT FOUND	Guide	WARN RESET

Causes: The specified macro variable number is not found.

Remedy: Check the input command value.

A10214

No.	Name	Level	Reset
10214	SPECIFIED VARIABLE NO. OUT OF RANGE	Guide	WARN RESET

Causes: The specified macro variable number is out of allowable range.

Remedy: Check the input command value.

A10215 A10216

No.	Name	Level	Reset
10215	ILLEGAL COMMAND ID SPECIFIED(MDL)	Guide	WARN RESET
10216	ILLEGAL RESOURCE ID SPECIFIED(MDL)	Guide	WARN RESET

Causes: (MODEL) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10217

No.	Name	Level	Reset
10217	INPUT VALUE OUT OF RANGE(MDL)	Guide	WARN RESET

Causes: The entered value is out of allowable range.

Remedy: Check the entered value, and retry. Range: -99999999 to 99999999

A10218

No.	Name	Level	Reset
10218	INPUT VALUE DESIGNATION ERROR(MDL)	Guide	WARN RESET

Causes: Incorrect command was specified.

Remedy: Check the specified command value, and retry.

A10219

No.	Name	Level	Reset
10219	ILLEGAL COMMAND SPECIFIED(MDL)	Guide	WARN RESET

Causes: (MODEL) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10220

No.	Name	Level	Reset
10220	INTERLOCK ERROR AUTO RUN EXECUTING	Guide	WARN RESET

Causes: An attempt to rewrite the setup simple macro data was made during automatic operation.

Remedy: Retry in the reset status.

A10221

No.	Name	Level	Reset
10221	INTERLOCK ERROR AXIS MOVING	Guide	WARN RESET

Causes: An attempt to rewrite the setup simple macro data was made while the axis is moving.

Remedy: Retry after the axis movement finished.

A10222 A10223

No.	Name	Level	Reset
10222	ILLEGAL TABLE DATA REQUESTED(MDL)	Guide	WARN RESET
10223	UNDEFINED ERROR(MDL)	Guide	WARN RESET

Causes: (MODEL) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10224

No.	Name	Level	Reset
10224	NC ANSWER ERROR	Guide	WARN RESET

(Option)

Causes: The online condition is not established.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10225

No.	Name	Level	Reset
10225	IMC COMMUNICATION LOG ACQ START POS OUT OF RANGE	Guide	WARN RESET

(Option)

Causes: The IMC communication log cannot be read.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10226

No.	Name	Level	Reset
10226	FMS IN OFF-LINE MODE	Guide	WARN RESET

(Option)

Causes: The IMC related operation was made in the offline mode.

Remedy: Retry in the online mode.

A10227

No.	Name	Level	Reset
10227	MACHINING CANNOT FINISH	Guide	WARN RESET

(Option)

Causes: An attempt to finish the machining was made though the IMC command does not start the machining.

Remedy: Retry after the machining has started.

A10228

No.	Name	Level	Reset
10228	COMMUNICATION MODE CHANGEABLE ONLY IN FMS OFF-LINE	Guide	WARN RESET

(Option)

Causes: An attempt to change the baud rate was made in other than offline mode.

Remedy: Retry in the offline mode.

A10229

No.	Name	Level	Reset
10229	CANNOT SET UP DURING TIME FLUID STARTING.	Guide	WARN RESET

Causes: It tried to change setting when the time fluid was ON.

Remedy: Please make a time fluid off when changing a set value.

A10230

No.	Name	Level	Reset
10230	INPUT TIME FLUID VALUE OUT OF RANGE (MCF)	Guide	WARN RESET

Causes: It tries to input TIME FLUID value out of range. Ex) 25:00, 61minutes, etc.

Remedy: Please set time in the range of the time fluid.

A10231

No.	Name	Level	Reset
10231	DEFECT OF THE PRESENT TIME. WHEN SET UP TIME FLUID, POWER SUPPLY RE-SUPPLY.	Guide	WARN RESET

Causes: Cannot be acquired at present time.

Remedy: Please re-supply the power supply.

A10236

No.	Name	Level	Reset
10236	ASSISTANCE FUNCTION UNDEFINED ERROR(MCF)	Guide	WARN RESET

Causes: (MCFUNC) System error.

Remedy:

(1) Operate again.

(2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10238

No.	Name	Level	Reset
10238	NOT RESET	Guide	WARN RESET

Causes: An attempt to enter O or N number was made during the memory run.

Remedy: Change the O or N number in the reset status.

A10239

No.	Name	Level	Reset
10239	PLEASE SPECIFY O NO. OR N NO.	Guide	WARN RESET

Causes: Only O or N address was specified without number, and the ENTER key was pressed.

Remedy: Check the input command value.

A10249

No.	Name	Level	Reset
10249	ILLEGAL LINE NO. SPECIFIED IN EDIT BLOCK	Guide	WARN RESET

Causes: System error.

Remedy:

(1) Operate again.

(2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10252

No.	Name	Level	Reset
10252	OPERATION DISABLED DURING MACRO DRAWING	Guide	WARN RESET

Description: Re-Draw operation was attempted during macro drawing.

A10255

No.	Name	Level	Reset
10255	MODEL BLOCK LENGTH TOO SHORT	Guide	WARN RESET

Causes: The model block length is not enough.

Remedy: Check the model block length. Range: 5 - 255

A10256

No.	Name	Level	Reset
10256	MODEL BLOCK LENGTH OVER	Guide	WARN RESET

Causes: The model block length is out of allowable range.

Remedy: Check the model block length. Range: 5 - 255

A10257

No.	Name	Level	Reset
10257	MODEL BLOCK CHECKING	Guide	WARN RESET

Causes: (MODEL) System error.

Remedy:

(1) Operate again.

(2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10258

No.	Name	Level	Reset
10258	NOT MODEL G BLOCK(MDL)	Guide	WARN RESET

Causes: The specified block does not contain G code.

Remedy: Correct the block data.

A10259

No.	Name	Level	Reset
10259	ILLEGAL G CODE SPECIFIED(MDL)	Guide	WARN RESET

Causes: The specified block cannot be converted into the model plan.

Remedy: Correct the block data. G code: 100~137 Address code: A~Z

A10260

No.	Name	Level	Reset
10260	NONE BLOCK END CODE (;)(MDL)	Guide	WARN RESET

Causes: There is no ";" (EOB) in the block.

Remedy: Correct the block data.

A10261 A10268

No.	Name	Level	Reset
10261	VMC INTERNAL DATA VARIATION DETECTED(MDL)	Guide	WARN RESET
10262	MODEL BLOCK STARTING ERROR(MDL)	Guide	WARN RESET
10263	ILLEGAL READ SYSTEM(MDL)	Guide	WARN RESET
10264	ILLEGAL READ SPECIFYING PACKET LENGTH(MDL)	Guide	WARN RESET
10265	NUMBER OF READ LINES SPECIFIED TO 0(MDL)	Guide	WARN RESET
10266	READ LINE CLEARED(MDL)	Guide	WARN RESET
10267	NUMBER OF READ LINES IS 0(MDL)	Guide	WARN RESET
10268	EFFECTIVE LINE DATA NOT FOUND(MDL)	Guide	WARN RESET

Causes: (MODEL) System error.

Remedy:

(1) Operate again.

(2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10269

No.	Name	Level	Reset
10269	O NUMBER OUT OF RANGE	Guide	WARN RESET

Causes: The specified O number is out of allowable range (pre-setting).

Remedy: Specify the O number in a range of 1 to 14999.

A10270 A10275

No.	Name	Level	Reset
10270	SEQUENTIAL READ FINISHED(MDL)	Guide	WARN RESET
10271	RANDOM READ POSITION OUT OF RANGE(MDL)	Guide	WARN RESET
10272	MODEL COMPILE OPEN ERROR	Guide	WARN RESET
10273	MODEL COMPILE MACRO ERROR	Guide	WARN RESET
10274	NOT COMPILE MODEL	Guide	WARN RESET
10275	NOT CONFIRM MODEL SET	Guide	WARN RESET

Causes: (MODEL) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10277 A10295

No.	Name	Level	Reset
10277	NO FILE OF A COPIED	Guide	WARN RESET
10278	COPIED FILE OPEN ERROR	Guide	WARN RESET
10279	COPY PLACE FILE OPEN ERROR	Guide	WARN RESET
10280	COPY PLACE FILE LINK ERROR OF SETTING ADDTION	Guide	WARN RESET
10281	COPY PLACE FILE ALREADY EXISTS WHEN CHECKING	Guide	WARN RESET
10284	02H:COMMAND ERROR TO N P C	Guide	WARN RESET
10285	10H:O NO. ERROR	Guide	WARN RESET
10286	11H:DOBBLE O NO.	Guide	WARN RESET
10287	12H:NO DEFINE O NO.	Guide	WARN RESET
10288	13H:SIMULTANEOUS CONTROL ERROR MAIN PROGRAM	Guide	WARN RESET
10289	14H:SIMULTANEOUS CONTROL ERROR SUB PROGRAM	Guide	WARN RESET
10290	15H:COMPILE ERROR	Guide	WARN RESET
10291	20H:ACCESS POINTER ERROR	Guide	WARN RESET
10292	28H:MEMORY OVER FLOW	Guide	WARN RESET
10293	2AH:FILE VALUE OVER FLOW	Guide	WARN RESET
10294	31H:CODE CHANGE ERROR	Guide	WARN RESET
10295	34H:BLOCK LENGTH ERROR	Guide	WARN RESET

Causes: (Program data) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10300

No.	Name	Level	Reset
10300	INVALID STOP STATUS	Guide	WARN RESET

Description: (IO management) The operation is disabled in the stop status.

A10301

No.	Name	Level	Reset
10301	NOT VALID IN START, STOP STS AND HW,	Guide	WARN RESET

Description: (IO management) Invalid in the start or stop status, or handle or zero return mode.

A10305 A10306

No.	Name	Level	Reset
10305	RUN FUNCTION NOT FOUND(NCAPI RESPONSE ERROR)	Guide	WARN RESET
10306	MODAL CHANGE ERROR	Guide	WARN RESET

Causes: (RUN OPERATION) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10307 A10312

No.	Name	Level	Reset
10307	SCHEDULE PROCESS ACCESS ERROR	Guide	WARN RESET
10308	SCHEDULE START ERROR	Guide	WARN RESET
10309	SCHEDULE MACRO START ERROR	Guide	WARN RESET
10310	SCHEDULE PROCESS NO. ERROR	Guide	WARN RESET
10311	SELECT SCHEDULE RUN MODE	Guide	WARN RESET
10312	NOT MEMORY MODE OR ALARM SIGN EXIST	Guide	WARN RESET

Causes: (SCHEDULE) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10316

No.	Name	Level	Reset
10316	PLEASE CONFIRM THAT THE MODE IS IN RESET STATUS AND THERE IS NO ALARM	Guide	WARN RESET

Causes: The revision function button is pressed at the alarm state.

Remedy: Please release the alarm, and make it to the reset state.

A10320

No.	Name	Level	Reset
10320	ILLEGAL TOOL OFFSET NO. RANGE	Guide	WARN RESET

Causes: The range with the Tool-offset number is wrong.

Remedy: Please check the Tool-offset number. (Range: 1 to 99)

A10321

No.	Name	Level	Reset
10321	ILLEGAL WORK OFFSET NO. RANGE	Guide	WARN RESET

Causes: The range with the Work-offset number is wrong.

Remedy: Please check the Work-offset number. (Range: 0[G54] to 7[G61])

A10322

No.	Name	Level	Reset
10322	ILLEGAL ELECT. OFFSET NO. RANGE	Guide	WARN RESET

Causes: The range with the Elect.-offset number is wrong.

Remedy: Please check the Elect.-offset number. (Range: 0 to 31)

A10323

No.	Name	Level	Reset
10323	ILLEGAL ELECT. BASE OFFSET NO. RANGE	Guide	WARN RESET

Causes: The range with the Elect. Base-offset number is wrong.

Remedy: Please check the Elect. Base-offset number. (Range: 0 to 99)

A10324

No.	Name	Level	Reset
10324	WORK GENERAL DATA READ ERROR	Guide	WARN RESET

Causes: "Work General Data Reading" System Error occurs

Remedy:

- (1) Please try again.
- (2) If the error occurs frequently, please contact us and take note on the error message number and the situation when the problem occurs.

A10325

No.	Name	Level	Reset
10325	ILLEGAL COOD ROTATE NO.	Guide	WARN RESET

Causes: "Coordinate Rotation Number Acquisition" System Error occurs.

Remedy:

- (1) Please try again.
- (2) If the error occurs frequently, please contact us and take note on the error message number and the situation when the problem occurs.

A10326

No.	Name	Level	Reset
10326	ILLEGAL WORK GRP NO.(GET ROTATE NO.)	Guide	WARN RESET

Causes: "Work Group Number Acquisition" System Error occurs.

Remedy:

- (1) Please try again.
- (2) If the error occurs frequently, please contact us and take note on the error message number and the situation when the problem occurs.

A10327

No.	Name	Level	Reset
10327	COORD ROTATE VALUE OUT OF RANGE	Guide	WARN RESET

Causes: "Coordinate Rotation Number Acquisition" System Error occurs.

Remedy:

- (1) Please try again.
- (2) If the error occurs frequently, please contact us and take note on the error message number and the situation when the problem occurs.

A10330

No.	Name	Level	Reset
10330	CALENDER OR TIME SETTING ERROR	Guide	WARN RESET

Description: Internal system error occurred when the calendar time of consumables is set.

A10331

No.	Name	Level	Reset
10331	CONSUMABLE NUMBER IS OUT OF RANGE	Guide	WARN RESET

Description: The out-of-range consumable number was specified.

A10332

No.	Name	Level	Reset
10332	PLEASE CHECK THE VALUE OF ACTUAL OR LIFE	Guide	WARN RESET

Description: The actual time exceeded the life time when the estimation of consumables is set.
Or, the life time has not been set.

A10333

No.	Name	Level	Reset
10333	ESTIMATE SETTING IS OUT OF RANGE	Guide	WARN RESET

Description: Internal system error occurred when the estimation of consumables is set.

A10334

No.	Name	Level	Reset
10334	SETTING IS NOT ALLOWED DURING ESTIMATE ON	Guide	WARN RESET

Description: The due date/time cannot be changed when the estimation of consumables is set to ON.

A10335

No.	Name	Level	Reset
10335	LIFE CANNOT BE SET WHEN DUE DATE/TIME IS SET	Guide	WARN RESET

Description: The life time cannot be changed when the due date/time is set.

A10336

No.	Name	Level	Reset
10336	PLEASE SELECT THE CONSUMABLE ITEM	Guide	WARN RESET

Cause: The ESTIMATE ON/OFF or CLEAR ITEM button on the CONSUMABLE screen was operated though a consumable item is not selected.

Remedy: Select a consumable item, and then press the ESTIMATE ON/OFF or CLEAR ITEM button.

A10337

No.	Name	Level	Reset
10337	PLEASE PRESS ENTER OR FKEY BUTTON TO TURN ON/OFF TO SETTING OF DUE DATE/TIME	Guide	WARN RESET

Description: The explanation of ESTIMATE ON or a setting method is displayed.

A10338

No.	Name	Level	Reset
10338	CONSUMABLE ITEM HAS REACHED ITS LIFETIME. PLEASE REPLACE AND SET [ACTUAL] TO 0.	Guide	WARN RESET

Description: The consumable reached its life time. Replace the consumable.

A10339

No.	Name	Level	Reset
10339	DISPLAY OR SETTING OF THE UTILIZED LIFETIME. THE FORMAT IS [HH/MM] OR [MM]	Guide	WARN RESET

Description: The explanation of actual time or a setting method is displayed.

A10340

No.	Name	Level	Reset
10340	DISPLAY OR SETTING OF CONSUMABLE LIFETIME. THE FORMAT IS [HH/MM] OR [MM]	Guide	WARN RESET

Description: The explanation of life time or a setting method is displayed.

A10341

No.	Name	Level	Reset
10341	DISPLAY OR SETTING OF CONSUMABLE DUE TIME. THE FORMAT IS [HH/MM] OR [MM]	Guide	WARN RESET

Description: The explanation of due date/time of replacement or a setting method is displayed.

A10342

No.	Name	Level	Reset
10342	DISPLAY OR SETTING OF PREV EXCHANGE DATE. THE FORMAT IS [YYYY/MM/DD], [MM/DD], [DD]PLEASE	Guide	WARN RESET

Description: The explanation of previous date of replacement or a setting method is displayed.

A10343

No.	Name	Level	Reset
10343	DISPLAY OR SETTING OF CONSUM DUE DATE. THE FORMAT IS [YYYY/MM/DD], [MM/DD], [DD].	Guide	WARN RESET

Description: The explanation of life date (calendar) or a setting method is displayed.

A10344

No.	Name	Level	Reset
10344	TIME SETTING IS OUT OF RANGE	Guide	WARN RESET

Description: The Setting data to [LIFETIME] in consumable screen is out of range.

Upper limit: 99999 Hour 59 Min

A10345

No.	Name	Level	Reset
10345	ESTIMATE CANNOT BE SET WHEN DUE DATE/TIME IS SET PLEASE REPLACE AND SET [ACTUAL] TO 0.	Guide	WARN RESET

Description: In Consumable screen, the estimate cannot be set when due date/time is set.

A10346

No.	Name	Level	Reset
10346	ACTUAL VALUE IS TOO SMALL OR PREV EXCHANGE DATE IS OUTDATED PLEASE REPLACE AND SET [ACTUAL] TO 0.	Guide	WARN RESET

Description: In Consumable screen, when estimate function set to ON, actual value is too small or prev exchange date is outdated.

Set the lifetime to become larger than "Time now – Prev date"

A10347

No.	Name	Level	Reset
10347	PARAMETER RESOURCE ACCESS ERROR	Guide	WARN RESET

Description: (Parameter resource control) System error

A10348

No.	Name	Level	Reset
10348	WIDE USE DATA ID ERROR	Guide	WARN RESET

Description: (Parameter resource control) An out-of-range value was specified for the general-purpose NCAP access function.

A10349

No.	Name	Level	Reset
10349	WIDE USE PARAMETER CANNOT BE REGISTERED	Guide	WARN RESET

Description: (Parameter resource control) There is no space in the register area for the general-purpose NCAP notice waiting function.

A10350

No.	Name	Level	Reset
10350	INDIRECT EDH WRITE IN PROTECTIONDISABLED	Guide	WARN RESET

Description: Edition of indirect EDH data is prohibited.

A10351

No.	Name	Level	Reset
10351	VERSION SETTING IS OUT OF RANGE	Guide	WARN RESET

Description: The command to acquire version information is wrong.

A10352 A10354

No.	Name	Level	Reset
10352	NO TRANSMISSION DATA HAS BEEN SELECTED	Guide	WARN RESET
10353	NO TRANSMISSION DATA (MACRO DATA) HAS BEEN SELECTED	Guide	WARN RESET
10354	NO TRANSMISSION DATA (NC FUNC) HAS BEEN SELECTED	Guide	WARN RESET

Description: The data transferred between graphic and main is not selected by parameters.

A10355

No.	Name	Level	Reset
10355	OPTION CONDITION REWRITING DISABLED	Guide	WARN RESET

Description: When the model data writing was permitted, it tried to rewrite the model data of the option.

A10356

No.	Name	Level	Reset
10356	EDITING OF MODEL DATA IS PROHIBITED DISABLED	Guide	WARN RESET

Causes: Edition of model data is prohibited

Remedy: To edit data, editing prohibition shall be reset.

- Edition of model data (M00 to M99) is prohibited by default.
- For model data for user (M90 to M99), editing prohibition can be disabled with parameter No.46 machining condition function selection 2 bit 4.

A10380

No.	Name	Level	Reset
10380	COND LIST UPLOAD ERROR	Guide	WARN RESET

Description: It failed in the binary upload processing of the condition list.

A10381

No.	Name	Level	Reset
10381	COND UPLOAD PARAMETER ERROR	Guide	WARN RESET

Description: The binary upload processing of the condition list is prohibited by setting the parameter.

A10400

No.	Name	Level	Reset
10400	BUTTON AT SELECTED POSITION IS INVALID NOW	Guide	WARN RESET

Causes: In the SPARK COND. ADJ. view on the COND screen, the jump adjustment was attempted though the jump item is not selected or the bar chart is not activated.

Remedy: Select either jump amount, jump cycle, or jump speed, and then retry.

A10401

No.	Name	Level	Reset
10401	JUMP MANUAL CHANGE PROHIBITED	Guide	WARN RESET

Causes: The jump manual change is prohibited, if the second digit of L code in the G76 command block is set to "1". Under this condition, the change of jump amount, jump cycle, and jump speed are disabled (program preferential protect function).

Remedy: Execute G76L0*; to reset the "JUMP MANUAL CHANGE PROHIBITED".

A10402

No.	Name	Level	Reset
10402	KEY-IN LINE IS EMPTY OR IMPROPER	Guide	WARN RESET

Causes: The key-in line is empty, or the out-of-range data was entered.

Remedy: Correct the input data.

A10403

No.	Name	Level	Reset
10403	ILLEGAL ID DETECTED IN EXECUTE CONDITION(APPLI.ERROR)	Guide	WARN RESET

Causes: Undefined execution condition was specified.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10404

No.	Name	Level	Reset
10404	DOCUMENT CLASS SETUP FAILED(APPLI. ERROR)	Guide	WARN RESET

Causes: (COND) System error.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10405

No.	Name	Level	Reset
10405	ILLEGAL ID DETECTED IN EXECUTE CONDITION (APPLI. ERROR)	Guide	WARN RESET

Causes: The undefined jump command was specified. Or, the jump command was specified when setting the execution condition.

Remedy:

- (1) Operate again.
- (2) In case of frequent occurrence, contact us of the trouble procedure and message no.

A10408

No.	Name	Level	Reset
10408	UNNECESSARY WORD EXISTS IN JUMP COMMAND	Guide	WARN RESET

Causes: An unnecessary word (alphabet) is contained in the G76 command block.

Remedy: Correct the program.

A10409

No.	Name	Level	Reset
10409	NECESSARY WORD DOES NOT EXIST IN JUMP COMMAND	Guide	WARN RESET

Causes: The necessary words in combination (alphabet) are missing in the G76 command block. Be sure to input the word which is not omissible in the intermittent jump function.

Remedy: Correct the program.

A10410

No.	Name	Level	Reset
10410	JUMP COMMAND VALUE IS IMPROPER	Guide	WARN RESET

Causes: The set value that is not permitted is commanded in the G76 command block.

Remedy: Correct the program.

A10411

No.	Name	Level	Reset
10411	JUMP COMMAND VALUE IS TOO SMALL	Guide	WARN RESET

Causes: In the G76 command block, a smaller value than allowable range was specified.

Remedy: Correct the program.

A10412

No.	Name	Level	Reset
10412	JUMP COMMAND VALUE IS TOO LARGE	Guide	WARN RESET

Causes: In the G76 command block, a larger value than allowable range was specified.

Remedy: Correct the program.

A10413

No.	Name	Level	Reset
10413	JUMP AMOUNT TAP 17 IS INVALID	Guide	WARN RESET

Causes: In the G76 command block, the TAP 17 was specified.

Remedy: Correct the program.

A10414

No.	Name	Level	Reset
10414	ILLEGAL MACHINING CONDITION SPECIFIED	Guide	WARN RESET

Description: Though the specified E number exists, either condition element value of that E number is out of the allowable range.

Causes:

- (1) Illegal E number was specified.
- (2) All element values are cleared to 0, or E number in which illegal value is set to even one element was specified.

Remedy: Check the specified value, or review the machining conditions.

A10415

No.	Name	Level	Reset
10415	SPECIFIED CONDITION COMMAND OUT OF RANGE	Guide	WARN RESET

Causes: The value out of allowable range was entered when the condition element was changed.

Remedy: Check the entered value.

A10416

No.	Name	Level	Reset
10416	SPECIFIED CONDITION IS OPTIONAL	Guide	WARN RESET

Causes: The machining condition (E number) requiring optional specifications such as power up type (60A), booster (optional for the power exceeding 120A), or tungsten carbide machining circuit was specified.

Remedy: Check the command value or E number.

A10417

No.	Name	Level	Reset
10417	SPECIFIED VALUE IS INTERLOCK ERROR	Guide	WARN RESET

Causes: The machining conditions are checked before output to prevent the overload on hardware (such as PC boards) due to combined condition elements. This pre-check detected an error.

Remedy: Correct the machining condition.

A10418

No.	Name	Level	Reset
10418	DOUBLE CONDITION ADJUSTING	Guide	WARN RESET

Causes: One or more items were adjusted in the SPARK COND. ADJ view on the CONDITION screen.

Remedy: Operate again.

A10421

No.	Name	Level	Reset
10421	SPECIFIED PARAMETER NO. NOT FOUND	Guide	WARN RESET

Causes: On the PARAMETER Screen, unregistered number was specified and the [SEARCH] button was pressed.

Remedy: Check the input command value.

A10422

No.	Name	Level	Reset
10422	ILLEGAL NUMERIC ON KEY-IN LINE	Guide	WARN RESET

Causes: The data entered on the key-in line was out of the numeric range of data value in the specified entry.

Remedy: Change the value on the key-in line.

A10423

No.	Name	Level	Reset
10423	ILLEGAL DATA ON KEY-IN LINE	Guide	WARN RESET

Causes: The data entered on the key-in line was out of range.

Remedy: Check the entered command.

A10424

No.	Name	Level	Reset
10424	PLEASE SET FROM DETAILS SET	Guide	WARN RESET

Causes: The parameter for unit or accuracy was attempted from PARAMETER screen.

Remedy: Change the parameter in the DETAILS SET dialog box of SET Screen.

A10426

No.	Name	Level	Reset
10426	INPUT OPERATION DISABLED	Guide	WARN RESET

Description: The [ENTER] key was pressed for the item to which the input operation is disabled.

A10444

No.	Name	Level	Reset
10444	TIMED DIELECTRIC TIMER OFF	Guide	WARN RESET

Description: It tried to cancel a time fluid in the case of the time fluid off.

A10445

No.	Name	Level	Reset
10445	TIMED DIELECTRIC TIMER ON	Guide	WARN RESET

Causes: It tried to change value of a time fluid in the case of the time fluid on.

Remedy: In case of setting change, please make the time fluid off.

A10446

No.	Name	Level	Reset
10446	MODE CHANGING	Guide	WARN RESET

Description: It is changing from the C axis mode to the turn mode.

A10448

No.	Name	Level	Reset
10448	SELECT MANUAL RUN MODE	Guide	WARN RESET

(Option)

Causes: An attempt to operate the pallet change was made on the IMC screen in other than the MANUAL RUN mode.

Remedy: Select the MANUAL RUN mode, then retry.

A10450

No.	Name	Level	Reset
10450	MODE CANNOT BE CHANGED DURING ROTATION	Guide	WARN RESET

(Option)

Causes: An attempt to change the mode was made during the rotation of MA/MR head.

Remedy: Select the ROTATE STOP, then retry.

A10451

No.	Name	Level	Reset
10451	SELECT ROTATION MODE	Guide	WARN RESET

(Option)

Causes: On the MA/MR screen, an attempt to perform the ROTATE START or ROTATE STOP was made, though the ROTATE MODE has not been selected.

Remedy: Select the ROTATION MODE, then retry.

A10453

No.	Name	Level	Reset
10453	LINE MODE IS REMOTE	Guide	WARN RESET

(Option)

Causes: The program input/output operation was performed when the IMC mode is REMOTE mode.

Remedy: Change over the IMC mode to the LOCAL mode, and retry.

A10454

No.	Name	Level	Reset
10454	LINE MODE IS LOCAL	Guide	WARN RESET

(Option)

Causes: On the MACH OPE, IMC screen, the function key for machining completion (IMC control screen) or pseudo completion (IMC maintenance screen) was pressed when IMC mode is local mode.

Remedy: Change the IMC mode from LOCAL to REMOTE, and retry operation.

A10455

No.	Name	Level	Reset
10455	MANUAL PROGRAM INPUT FROM HOST IS DISABLED	Guide	WARN RESET

(Option)

Causes:

- (1) In the IMC REMOTE mode, an attempt to input a program from the host computer made.
- (2) The specified O No. already exists in NC unit.

Remedy:

- (1) Change IMC mode to LOCAL, and retry operation.
- (2) Delete specified O No., if unnecessary, and then retry operation.

A10456

No.	Name	Level	Reset
10456	MANUAL PROGRAM OUTPUT TO HOST IS DISABLED	Guide	WARN RESET

(Option)

Causes: The O No. to be output is not found in NC unit.

Remedy: Change O No. to be output, and then retry operation.

A10458

No.	Name	Level	Reset
10458	LINE IS NOT IN ON-LINE MODE	Guide	WARN RESET

(Option)

Causes: In the off-line status, a function button on IMC control screen or IMC maintenance screen was operated.

Remedy: Set up on-line status, then retry operation.

A10459

No.	Name	Level	Reset
10459	COMMUNICATION RE-SETTABLE ONLY IN OFF-LINE MODE	Guide	WARN RESET

(Option)

Causes: In the on-line status, communication conditions to host computer were changed.

Remedy: Change communication conditions in the off-line status.

A10467

No.	Name	Level	Reset
10467	COMMAND CANNOT BE SET AT PRESENT	Guide	WARN RESET

(Option)

Causes: The function buttons for pseudo completion on IMC maintenance screen were pressed simultaneously.

Remedy: Press either one of function buttons for pseudo completion.

A10468

No.	Name	Level	Reset
10468	PRESS MACHINING COMPLETE OR MACHINING ABORT KEY	Guide	WARN RESET

(Option)

Description: This message is displayed to ask for next operation when a function button for pseudo completion on the IMC maintenance screen is pressed.

Press [COMPLETE] or [ABORT] button to select successful or unsuccessful pseudo completion.

A10470

No.	Name	Level	Reset
10470	ILLEGAL WORK OFFSET GROUP SPECIFIED	Guide	WARN RESET

Causes: On the Electrode Offsets screen, the work offset group number out of allowable range was specified.

Remedy: Check the work offset group number.

A10471

No.	Name	Level	Reset
10471	ILLEGAL WORK OFFSET NO. SPECIFIED	Guide	WARN RESET

Causes: On the Electrode Offsets screen, the work offset number out of allowable range was specified.

Remedy: Check the work offset number.

A10472

No.	Name	Level	Reset
10472	ILLEGAL OFFSET VALUE SPECIFIED	Guide	WARN RESET

Causes: On the WORK OFFSET screen, the Electrode Offsets screen, the offset value out of allowable range was specified.

Remedy: Check the offset value.

A10491

No.	Name	Level	Reset
10491	SPECIFIED VARIABLE No. CAN NOT BE FOUND	Guide	WARN RESET

Causes: On the MACRO DATA screen, specify the macro variable No. other than the user specified No. was specified and the SEARCH button was pressed.

Remedy: Input command error.

A10492

No.	Name	Level	Reset
10492	ILLEGAL NUMERIC ON KEY-IN LINE	Guide	WARN RESET

Causes: Numeric value on the key-in line is out of allowable range.

Remedy: Change the value on the key-in line.

A10493

No.	Name	Level	Reset
10493	ILLEGAL DATA ON KEY-IN LINE	Guide	WARN RESET

Causes: On the MACRO DATA screen, wrong data was entered and then the ENTER key was pressed.

Remedy: Check the entered command.

A10494

No.	Name	Level	Reset
10494	THERE IS NO PAGE TO BE DISPLAYED	Guide	WARN RESET

Causes: In a mode with two or more pages, there is no more pages when pages are turned by [PAGE UP] or [PAGE DOWN] key.

Remedy: If this message appears when [PAGE UP] key is used, use [PAGE DOWN] key to turn pages.

If this message appears when [PAGE DOWN] key is used, use [PAGE UP] key to turn pages.

A10500

No.	Name	Level	Reset
10500	PROGRAM WITH THE SAME NUMBER EXISTS, PLEASE SPECIFY A NEW ONE	Guide	WARN RESET

Causes: Entry of the same O No. as one already entered on the Program: List screen was attempted.

Remedy: Select O No. not in use.

A10501

No.	Name	Level	Reset
10501	THE SPECIFIED PROGRAM CANNOT BE FOUND	Guide	WARN RESET

Causes: On the Program: List screen, O No. not entered was specified and then the ERASE button was pressed.

Remedy: Check the O No. and N No.

A10502

No.	Name	Level	Reset
10502	THE CURRENT PROGRAM CANNOT BE DELETED	Guide	WARN RESET

Causes: O No. at execution was attempted to delete on the Program: List screen.

Remedy: Reset and then restart.

A10503

No.	Name	Level	Reset
10503	THE CURRENT PROGRAM CANNOT BE EDITED	Guide	WARN RESET

Causes: In the BLOCK view on the Program screen, an attempt to edit the program that running was made.

Remedy: To edit the current program, perform in the reset status.

A10504

No.	Name	Level	Reset
10504	THE DATA SPECIFIED IN KEY-INLINE AREA CONTAINS ERROR	Guide	WARN RESET

Causes: In the BLOCK view on the Program screen, the O number on the key-in line is wrong during the PROGRAM COPY mode.

Remedy: Check the O number on the key-in line.

A10505

No.	Name	Level	Reset
10505	THE PROGRAM NUMBER SPECIFIED IS ILLEGAL	Guide	WARN RESET

Causes: In the LIST view on the Program screen, the O number out of range was specified and then the [DELETE] button was pressed.

Remedy: Specify the O number in allowable range. O numbers: 0 - 14999

A10506

No.	Name	Level	Reset
10506	SEARCHING..., PLEASE WAIT A MOMENT	Guide	WARN RESET

Description: In the BLOCK view on the Program screen, [CHARACTER SEARCH] or [ERROR SEARCH] operation is under way.

A10507

No.	Name	Level	Reset
10507	PLEASE SPECIFY THE PROGRAM NUMBER	Guide	WARN RESET

Causes: In the LIST view on the Program screen, the [NEW FILE] button was pressed without entering O number.

Remedy: Enter the O number in the key-in line, and then press the function button.

A10508

No.	Name	Level	Reset
10508	NUMBER OF FILES OVERFLOW	Guide	WARN RESET

Description: Program No. can be registered to any number from O No. of 1 to 9999 but not all of these numbers can be used.

Total 3000 numbers are available for registration.

Causes: More than available numbers were used.

Remedy: Delete unnecessary program No.

A10509

No.	Name	Level	Reset
10509	MEMORY OVERFLOW	Guide	WARN RESET

Causes: The memory becomes full during the program input or manual input.

Remedy: Delete unnecessary programs for too many programs.

The program up to the cancelled point has been stored.

Check the program content. (Especially when cancelled halfway of the program, pay attention.)

A10510

No.	Name	Level	Reset
10510	CLOSING THE PROGRAM..., PLEASE WAIT A MOMENT	Guide	WARN RESET

Description: This message is displayed while closing the edited program. Moreover, the program is checked.

A10511

No.	Name	Level	Reset
10511	DELETING THE PROGRAM(S)..., PLEASE WAIT A MOMENT	Guide	WARN RESET

Description: The message shows that on the EDIT•LIST screen, O No. was specified and the program is being deleted.

A10512

No.	Name	Level	Reset
10512	TRANSFERRING PROGRAM..., PLEASE WAIT A MOMENT	Guide	WARN RESET

Description: On the EDIT•FILE screen, this message is displayed during the transfer of a program.

A10513

No.	Name	Level	Reset
10513	PROGRAM TRANSFER COMPLETED	Guide	WARN RESET

Description: On the EDIT•FILE screen, this message is displayed when the program transfer finished.

A10518

No.	Name	Level	Reset
10518	PROGRAM SEARCH COMPLETED	Guide	WARN RESET

Description: In the LIST view on the EDIT•PRG FILE screen, O number or comment search finished.

A10522

No.	Name	Level	Reset
10522	CHARACTERS REGISTERED IN THE BLOCK ARE TOO LONG	Guide	WARN RESET

Causes: One block entered in the key-in line exceeds 190 characters.

Remedy: The data up to 190 characters are registered. Note that the data exceeding 190 characters are cleared.

A10523

No.	Name	Level	Reset
10523	CHARACTERS SPECIFIED IN KEY-IN LINE ARE TOO LONG	Guide	WARN RESET

Causes: The number of characters entered in the key-in line exceeds the limit.

Remedy: The upper limit of the key-in line is 760 characters. Note that the data exceeding 760 characters are cleared.

A10524

No.	Name	Level	Reset
10524	ERROR HAS OCCURRED DURING THE PROGRAM TRANSFER	Guide	WARN RESET

Causes: An error occurred during the program transfer.

Remedy: Check the contents of operation, and retry.

A10525

No.	Name	Level	Reset
10525	PROGRAM EDITING IS PROHIBITED	Guide	WARN RESET

Description: The program to be edited is attached with an edit forbid attribute (program protection).

Causes: The contents of protection vary depending on a setting of the set data No.30, 31, and 32.

Ex) You attempted to write or delete the program though the set data No.30 is set to "1" (writing or deletion of O8000 - 8999 programs is forbidden.)

Remedy: Check a setting of the set data No.30, 31, and 32.

A10526

No.	Name	Level	Reset
10526	PLEASE MOVE THE CURSOR TO SELECT MULTIPLE ITEMS FROM CURRENT POINT	Guide	WARN RESET

Description: (CONTINUE) Specify a range to be selected. It can be cancelled by pressing the [CONTINUAL SELECT].

A10527

No.	Name	Level	Reset
10527	TO SELECT ITEM, PLEASE MOVE THE CURSOR AND PRESS [ENTER]	Guide	WARN RESET

Description: (SELECT) Move the cursor to the program to be selected, and press the [ENTER] to fix the selection.

A10528

No.	Name	Level	Reset
10528	PLEASE ACTIVATE [SELECT] MODE OR SPECIFY THE PROGRAM IN KEY-INLINE INPUT	Guide	WARN RESET

Description: Select a program in the SELECT mode, or key in the program.

A10529

No.	Name	Level	Reset
10529	OPERATION IS NOT ALLOWED DURING PROGRAM DIVIDE	Guide	WARN RESET

Causes: Change over to other view is disabled during program dividing.

Remedy: Retry change-over after a program division finished.

A10530

No.	Name	Level	Reset
10530	OPERATION IS NOT ALLOWED DURING [SELECT] MODE	Guide	WARN RESET

Causes: Cannot be used in the SELECT mode.

Remedy: Confirm the content of operation, and retry.

A10531

No.	Name	Level	Reset
10531	PLEASE SELECT THE FILE BEFORE ACTIVATING [CONTINUOUS SELECT] MODE	Guide	WARN RESET

Causes: Press the [CONTINUAL SELECT] button after specifying the head file to be selected.

Remedy: Confirm the content of operation, and retry.

A10532

No.	Name	Level	Reset
10532	THE PROGRAM CANNOT BE OVERWRITTEN, PLEASE DELETE THE PROGRAM AND TRY AGAIN	Guide	WARN RESET

Causes: The program cannot be overwritten. Delete a file at the destination of transfer, and then retry transfer.

Remedy: Confirm the content of operation, and retry.

A10533

No.	Name	Level	Reset
10533	FILE TRANSFER FAILS, MEMORY IS NOT ENOUGH	Guide	WARN RESET

Causes: The memory for program transfer is full.

Remedy: Delete files in the RAM disk.

A10534

No.	Name	Level	Reset
10534	EXCEPTION ERROR HAS OCCURRED DURING PROGRAM TRANSFER	Guide	WARN RESET

Causes: Exceptional processing occurred during the file transfer.

Remedy: If this alarm occurs frequently, notify us of the message number and the condition under which the alarm occurred.

A10535

No.	Name	Level	Reset
10535	[SELECT] MODE CANNOT BE ACTIVATED AT THE START BLOCK	Guide	WARN RESET

Causes: The [SELECT] button is disabled in the START block on the BLOCK screen.

Remedy: Move the cursor to other than START block, and press the [SELECT] button.

A10536

No.	Name	Level	Reset
10536	OPERATION IS NOT ALLOWED DURING THE COMMUNICATION	Guide	WARN RESET

Causes: Change over during communication is disabled.

Remedy: Confirm the content of operation, and retry.

A10537

No.	Name	Level	Reset
10537	PLEASE SELECT PROGRAM OR INPUT THE PROGRAM NUMBER AND PRESS [RS232C OUTPUT]	Guide	WARN RESET

Causes: Select the program to be outputted or enter the program name, and press the [RS232C OUTPUT] button.

Remedy: Confirm the content of operation, and retry.

A10538

No.	Name	Level	Reset
10538	PLEASE SPECIFY THE O NUMBER TO BE SET FOR THE INPUT FILE AND PRESS [RS232C INPUT]	Guide	WARN RESET

Causes: Enter the O number of the program to be entered, and press the [RS232C INPUT] button.

Remedy: Confirm the content of operation, and retry.

A10540

No.	Name	Level	Reset
10540	CONNECTING TO THE NETWORK..., PLEASE WAIT A MOMENT	Guide	WARN RESET

Description: The machine is being connected to the network.

The message will disappear when the connection has completed.

A10541

No.	Name	Level	Reset
10541	NETWORK NAME CAN NOT BE FOUND	Guide	WARN RESET

Causes: The network name to be connected is not found.

Remedy: Check the network path setting. (Not used at present)

A10542

No.	Name	Level	Reset
10542	THIS FUNCTION IS NOT SUPPORTED	Guide	WARN RESET

Causes: An attempt to operate the function not supported was made on the EDIT screen.

Remedy: Check the contents of operation.

A10543

No.	Name	Level	Reset
10543	NETWORK PATH IS NOT CONFIGURED	Guide	WARN RESET

Causes: The path name of the network to be accessed is not found.

Remedy: Check the setting of the network path.

A10550

No.	Name	Level	Reset
10550	PLEASE SPECIFY THE LINE NUMBER OR PRESS [↑] OR [↓] TO JUMP TO <START> OR <END>	Guide	WARN RESET

Description: In the BLOCK view on the EDIT•PRG FILE screen, the JUMP mode is active. To perform the jump, enter the line number in the key-in line.

Or, move to the top with [↑] key or last with [↓] key.

A10551

No.	Name	Level	Reset
10551	JUMPING..., PLEASE WAIT A MOMENT	Guide	WARN RESET

Description: The line number is being searched in the JUMP mode.

A10552

No.	Name	Level	Reset
10552	PLEASE SPECIFY THE WORD TO SEARCH AND REPLACE [↑] [↓] : SEARCH	Guide	WARN RESET

Description: The [REPLACE] (B3) button is pressed to activate the Replace mode.

A10553

No.	Name	Level	Reset
10553	PLEASE SPECIFY THE CHARACTER TO SEARCH AND PRESS [↑] OR [↓]	Guide	WARN RESET

Description: In the BLOCK view on the EDIT•PRG FILE screen, the CHARACTER SEARCH mode is active.
Enter the characters to be searched in the key-in line, and then start upward search with [↑] key, or downward search with [↓] key.

A10554

No.	Name	Level	Reset
10554	THE SPECIFIED CHARACTERS WERE NOT FOUND	Guide	WARN RESET

Description: In the BLOCK view on the EDIT•PRG FILE screen, the specified character string is not found in the CHARACTER SEARCH mode.

A10555

No.	Name	Level	Reset
10555	REPLACING..., PLEASE WAIT A MOMENT	Guide	WARN RESET

Description: In the Replace mode, [REPLACE ONE] (B9) or [REPLACE ALL] (B10) is executed and the searched character string is being replaced.

A10556

No.	Name	Level	Reset
10556	PLEASE PRESS [↑] OR [↓] KEYS FOR THE ERROR SEARCH DIRECTION	Guide	WARN RESET

Description: In the BLOCK view on the EDIT•PRG FILE screen, the ERROR SEARCH mode is active. Perform the upward error search with [↑] key or downward error search with [↓] key.

A10557

No.	Name	Level	Reset
10557	ALARM BLOCK WAS NOT FOUND	Guide	WARN RESET

Description: In the BLOCK view on the EDIT•PRG FILE screen, an alarm block is not found in the ERROR SEARCH mode.

A10558

No.	Name	Level	Reset
10558	REPLACEMENT COMPLETED! _ WORDS WERE REPLACED.	Guide	WARN RESET

Description: In the Replace mode, [REPLACE ALL] (B10) operation.

A10559

No.	Name	Level	Reset
10559	PLEASE INPUT THE WORD TO SEARCH	Guide	WARN RESET

Cause: In the Replace mode, you tried to execute the search or replacement without entering characters in the search edit box.

Remedy: Enter characters in the search edit box.

A10560

No.	Name	Level	Reset
10560	PLEASE SPECIFY THE PROGRAM NAME (O NUMBER) TO BE INSERTED BEFORE THE CURSOR	Guide	WARN RESET

Description: In the BLOCK view on the EDIT•PRG FILE screen, the PROGRAM COPY mode is active. Enter the O number in the key-in line.

A10561

No.	Name	Level	Reset
10561	COPYING THE PROGRAM..., PLEASE WAIT A MOMENT	Guide	WARN RESET

Description: In the BLOCK view on the EDIT•PRG FILE screen, the program copy is under way.

A10562

No.	Name	Level	Reset
10562	COPY COMPLETED	Guide	WARN RESET

Description: The program copy finished.

A10563

No.	Name	Level	Reset
10563	PLEASE ENTER THE LINE NUMBER AND PRESS ENTER KEY	Guide	WARN RESET

Description: The [JUMP] (B1) button is pressed, and then the system is waiting for your input.

A10565

No.	Name	Level	Reset
10565	PLEASE MOVE THE CURSOR TO SELECT THE RANGE OR PRESS [SELECT] AGAIN TO CANCEL	Guide	WARN RESET

Description: In the BLOCK view on the EDIT•PRG FILE screen, the SELECT mode is active.

Specify the range (blue highlighting) with [↑] [↓] keys or by touching directly the desired block, and then press the [COPY] or [DELETE] button. Or, press the [SELECT] button to cancel the SELECT mode.

A10566

No.	Name	Level	Reset
10566	NO BLOCK HAS BEEN SELECTED	Guide	WARN RESET

Causes: The [COPY] or [DELETE] button was pressed without selecting the block.

Remedy: Select the block.

A10567

No.	Name	Level	Reset
10567	OPERATION IS NOT ALLOWED DURING [SELECT] MODE	Guide	WARN RESET

Causes: The [PASTE] button was pressed in the SELECT mode.

Remedy: Specify the range and press the [COPY] button, then press the [PASTE] button.

A10568

No.	Name	Level	Reset
10568	OPERATION IS NOT ALLOWED WHEN EDITING MODE IS ACTIVE	Guide	WARN RESET

Causes: The EDIT mode such as JUMP, CHARACTER SEARCH, ERROR SEARCH, PROGRAM, COPY, SELECT, etc. is selected.

Remedy: Cancel the EDIT mode, and then retry the operation.

A10570

No.	Name	Level	Reset
10570	ILLEGAL NUMBER OF DIGITS ON KEY-IN LINE	Guide	WARN RESET

Causes: The number of digits on the key-in line is out of allowable range.

Remedy: Change the number of digits on the key-in line.

A10571

No.	Name	Level	Reset
10571	ILLEGAL NUMERIC DATA ON KEY-IN LINE	Guide	WARN RESET

Causes: Numeric value on the key-in line is out of allowable range.

Remedy: Change the numeric value on the key-in line.

A10572

No.	Name	Level	Reset
10572	MODEL BLOCK HAS BEEN ADDED	Guide	WARN RESET

Description: On the EDIT•MODEL screen, a block was added.

A10573

No.	Name	Level	Reset
10573	MODEL BLOCK HAS BEEN CHANGED	Guide	WARN RESET

Description: On the EDIT•MODEL screen, a block was changed.

A10574

No.	Name	Level	Reset
10574	MODEL BLOCK HAS BEEN DELETED	Guide	WARN RESET

Description: On the EDIT•MODEL screen, a block was deleted.

A10575

No.	Name	Level	Reset
10575	MODEL BLOCK CANNOT BE TRANSLATED INTO THE MODEL TALK ITEMS	Guide	WARN RESET

Description: On Program: Block screen, when the [MODEL] button key is pushed, its block cannot be changed to model plan.

A10576

No.	Name	Level	Reset
10576	MODEL BLOCK CANNOT BE FOUND	Guide	WARN RESET

Description: There is no model block to be searched for or deleted when the previous or next block is searched on the model screen, or block delete is conducted.

A10577

No.	Name	Level	Reset
10577	CONVERSATIONAL INPUT ERROR IN MODEL BLOCK	Guide	WARN RESET

Description: The message appears when in a model screen block add or block change are pushed, and the * mark item in the conversation item displays a message is blank.
Input the * mark item.

A10580

No.	Name	Level	Reset
10580	ILLEGAL TITLE SPECIFICATION (MULTI-LINE DETECTED)	Guide	WARN RESET

Cause: A title character string registered with the model plan interactive registering function contains the line feed code.

Example)

N9999;

G440;

PRFM ('ABC\$123\$'); Wrong Title character string contains the line feed code.

PRFM ("25"@2354@:/ ELECTRODE N"6F". \$');

M99;

Remedy: Delete the line feed code in a title character string. Only the line feed code at the end of a character string is allowed.

In the above example, correct as follows:

PRFM ('ABC 123\$'); Correct

A10581

No.	Name	Level	Reset
10581	MODEL HELP PAGE CAN BE CHANGED BY [PAGE UP][PAGE DOWN] KEY.	Guide	WARN RESET

Causes: When the model plan screen is open, the message is displayed when the model help screen is displayed by pressing [HELP] (F1) key.

This message disappears when the help screen is closed.

A10590

No.	Name	Level	Reset
10590	USE PORTABLE OPERATION PANEL TO CHANGE FEEDRATE	Guide	WARN RESET

Description: The feed rate cannot be changed over on the RUN MANUAL screen. To change the feed rate, use the portable operation panel.

A10591

No.	Name	Level	Reset
10591	CAN NOT MDI-CANCEL	Guide	WARN RESET

Causes: The [MDI CANCEL] button was pressed when the MDI RUN is not in stop status.

Remedy: Retry after the MDI RUN has stopped.

A10592

No.	Name	Level	Reset
10592	CAN NOT RE-EDIT	Guide	WARN RESET

Causes: The [RE-EDIT] button was pressed when the MDI RUN editing is disabled.

Remedy: Retry when the MDI RUN editing is enable.

A10593

No.	Name	Level	Reset
10593	RE-EDITED PROGRAM READING FAILED	Guide	WARN RESET

Description: The re-edited program file for the MDI RUN may not be created yet.

A10594

No.	Name	Level	Reset
10594	RE-EDITING MAY BE DISABLED	Guide	WARN RESET

Description: The re-edited program file may not be saved during the editing of the MDI RUN program.

A10595

No.	Name	Level	Reset
10595	INPUT CONTENTS IN KEY-IN LINE EX.)X1.	Guide	WARN RESET

Description: When performing the work set or relative set, key in specific axis name (X, Y, Z) or enter P for specifying all axes and set value (default is 0), and then press the appropriate function key.

A10596

No.	Name	Level	Reset
10596	[CNTR OFS.→ELECT.] WORKS ONLY IN [SET UP COORD.] DISPLAYED	Guide	WARN RESET

Description: The [C.OFFSET SAVE] button is active only when [SET UP COORD.] is selected.

A10597

No.	Name	Level	Reset
10597	CAN NOT EDIT IN START STATUS	Guide	WARN RESET

Description: Editing is disabled in the start status.

A10599

No.	Name	Level	Reset
10599	LOCAL COORD. IS CANCELED	Guide	WARN RESET

Description: The local coordinate is cancelled.

A10600

No.	Name	Level	Reset
10600	CAN NOT CHANGE DURING SCHEDULE RUN	Guide	WARN RESET

Description: Change over other run mode is disable during the schedule run.

A10601

No.	Name	Level	Reset
10601	PLEASE MAKE SURE THE AXES ARE AT SOME DISTANCES AWAY FROM MACHINE ZERO RETURN	Guide	WARN RESET

Description: When you perform a reference return, please check whether the reference return axis is in the position such that reference return operation is possible.

A distance of 20mm or more for X, Y, and the Z-axis while 30 degrees or more for C axis is required for reference point return operation.

Please move along the path such that the electrode and the work piece do not collide with each other.

A10602

No.	Name	Level	Reset
10602	OFFSET SETTING PERMISSION DENIED. PLEASE CHECK OFFSET-AXIS MASKING FUNCTION	Guide	WARN RESET

Description: [C.OFFSET SAVE] button was pressed with the axis setting that does not match with set parameter No.0192 "Axis Setting for Standard Offset Saving".

A10603

No.	Name	Level	Reset
10603	PLEASE SPECIFY AXIS CORRECTLY EX: X	Guide	WARN RESET

Description: Alphabet Letter other than Axis Address has been specified.

A10604

No.	Name	Level	Reset
10604	PAGE CAN BE CHANGED BY [PAGE UP] [PAGE DOWN] KEY	Guide	WARN RESET

Description: You can navigate between pages using the [PAGE UP] and [PAGE DOWN] keys.

A10610 A10618

No.	Name	Level	Reset
10610	DIAGNOSTIC INFORMATION WRITING TO EXT FILE	Guide	WARN RESET
10611	REGISTRY WRITING FROM EXTERNAL FILE	Guide	WARN RESET
10612	REGISTRY READING FROM EXTERNAL FILE	Guide	WARN RESET
10613	DETAIL SET DATA WRITING TO EXTERNAL FILE	Guide	WARN RESET
10614	DETAIL SET DATA READING TO EXTERNAL FILE	Guide	WARN RESET
10615	FILE WRITING SUCCEEDED	Guide	WARN RESET
10616	FILE WRITING FAILED	Guide	WARN RESET
10617	FILE READING SUCCEEDED	Guide	WARN RESET
10618	FILE READING FAILED	Guide	WARN RESET

Description: The message is displayed when the function buttons for maintenance are operated.

In case of frequent message display during normal operation, make sure the situation and message number, then please contact us.

A10619

No.	Name	Level	Reset
10619	EIS VIEW CAN NOT DISPLAY MORE THAN TWO	Guide	WARN RESET

Description: Two EIS views cannot be displayed.

A10620

No.	Name	Level	Reset
10620	DUMP DATA WRITING TO EXT FILE.. PLEASE WAIT FOR A FEW MINUTES.(DO NOT OPERATE)	Guide	WARN RESET

Description: The dump data is being output.

Please do not operate the screen while the message appears.

A10630

No.	Name	Level	Reset
10630	COPYING THE SELECTED BLOCK..., PLEASE WAIT A MOMENT	Guide	WARN RESET

Description: In the block view on the EDIT•PRG FILE screen, the selected block is being copied to the clipboard.

A10631

No.	Name	Level	Reset
10631	COPY COMPLETED. PRESS [PASTE] TO INSERT COPIED BLOCK INTO CURSOR POSITION	Guide	WARN RESET

Description: The copy of the selected block to the clipboard finished.

The block copied to the clipboard can be inserted in the cursor position by pressing the [PASTE] button.

A10632

No.	Name	Level	Reset
10632	DELETING THE SELECTED BLOCK..., PLEASE WAIT A MOMENT	Guide	WARN RESET

Description: The selected block is being deleted. At this time, the deleted block is inserted in the clipboard.

A10633

No.	Name	Level	Reset
10633	BLOCK DELETED. TO UNDO THE OPERATION, PRESS [PASTE] AT THE PREVIOUS POSITION	Guide	WARN RESET

Description: The deletion of the selected block is finished.

The deleted block can be inserted in the cursor position by pressing the [PASTE] button.

A10634

No.	Name	Level	Reset
10634	PASTE COMPLETED	Guide	WARN RESET

Description: The content of clipboard was pasted in the cursor position.

A10636

No.	Name	Level	Reset
10636	PASTING THE BLOCK(S)..., PLEASE WAIT A MOMENT	Guide	WARN RESET

Description: The content of clipboard is being pasted in the cursor position.

A10637

No.	Name	Level	Reset
10637	NO DATA TO PASTE	Guide	WARN RESET

Description: The [PASTE] button was pressed though there is no copied or deleted block in the clipboard. The [PASTE] button is effective when the [SELECT] and [COPY], or [SELECT] and [DELETE] operation was performed after the power on.

A10645

No.	Name	Level	Reset
10645	PROGRAM DIVIDE WAS COMPLETED WITH ERROR(S) (ERROR STATUS = _)	Guide	WARN RESET

Description: A dividing of the program completed, but an error occurred in the NC operating status.

A10655

No.	Name	Level	Reset
10655	INPUT E NUMBER IS NOT CORRECT	Guide	WARN RESET

Causes: The illegal E number was searched in the condition list dialog.

Remedy: Correct the search E number to 100-9999.

A10722

No.	Name	Level	Reset
10722	SELECT ADDITIONAL FILE, AFTER PUSH [FILE OUTPUT->] BUTTON	Guide	WARN RESET

Description: Enter the file name to which a program is added, and then press the [File Output ->] button.

A10723

No.	Name	Level	Reset
10723	NOT FOUND ADDITIONAL FILE	Guide	WARN RESET

Description: The file to which a program is added is not found.

A10724

No.	Name	Level	Reset
10724	ADDITIONAL FILE IS WRITE-PROTECTED	Guide	WARN RESET

Description: The file to which a program is added is write protected.

A10731

No.	Name	Level	Reset
10731	CANCELLED	Guide	WARN RESET

Description: A cancellation is made.

A10741

No.	Name	Level	Reset
10741	CONSECUTIVE EMPTY AREA IS NOT FOUND, PLEASE DECREASE THE NUMBER OF FORWARDING FILES.	Guide	WARN RESET

Causes: When "Auto O Num." function is effective, the consecutive empty area for files that are being transferred from the external device (network etc.) to the list program is not found.

Remedy: Please delete unnecessary O Number from the list program or decrease the number of files to be transferred.

A10742

No.	Name	Level	Reset
10742	THE SPECIFIED O NUMBER IS NOT CORRECT	Guide	WARN RESET

Causes: When the file is transferred from the external device (network etc.) to the list program, the O Number specified in the key inline is not correct.

Remedy: Please specify the correct O Number in key inline.

A10770

No.	Name	Level	Reset
10770	FAIL TO TRANSMIT PROGRAM	Guide	WARN RESET

(Option)

Causes: When download program from web server to the machine, the target program cannot be opened because the target program is running or opened in the Edit Screen.

Remedy: Download the program again after confirm the target program isn't running and isn't opened in the Edit Screen.

A10771

No.	Name	Level	Reset
10771	SUCCESS TO TRANSMIT PROGRAM	Guide	WARN RESET

(Option)

Description: The target program is successfully downloaded from web server to the machine.

A10772

No.	Name	Level	Reset
10772	THE PROGRAM IS BEING USED	Guide	WARN RESET

(Option)

Causes: When download program from web server to the machine, the target program cannot be opened because the target program is running or is opened in the Edit Screen.

Remedy: Download the program again after confirming that the target program isn't running and isn't opened in the Edit Screen.

A10773

No.	Name	Level	Reset
10773	FAIL TO DOWNLOAD PROGRAM.	Guide	WARN RESET

(Option)

Causes: Generic error when download program from web server to the machine.

Remedy: Check Html file and try again

A10774

No.	Name	Level	Reset
10774	ERROR WHEN CONNECTING TO THE SERVER	Guide	WARN RESET

(Option)

Causes: Connecting problem between web server and the machine.

Remedy: Check the TCP/IP connection and confirm the server software running correctly.

A10775

No.	Name	Level	Reset
10775	INVALID RESPONSE FROM THE SERVER	Guide	WARN RESET

(Option)

Causes: Fail to call queries for information about an HTTP request.

Remedy: Confirm the Web server software configuration and running correctly.

A10776

No.	Name	Level	Reset
10776	INVALID HTTP RESPONSE FROM THE SERVER	Guide	WARN RESET

(Option)

Causes: Failed to retrieve a HTTP 200 status.

Remedy: Confirm the Web server running and correctly Check Html file and try again.

A10777

No.	Name	Level	Reset
10777	ERROR WHEN DOWNLOADING THE FILE FROM SERVER	Guide	WARN RESET

(Option)

Causes: An exception occurred while writing to the download file or retrieving the file from server.

Remedy: Confirm the machine has enough storage space and confirm the connection between server and machine is good.

A10778

No.	Name	Level	Reset
10778	ERROR WHEN OPEN THE FILE FROM SERVER	Guide	WARN RESET

(Option)

Causes: Cannot open the file on server side.

Remedy: Confirm the file exists on the server, check Html file and try again.

A10779

No.	Name	Level	Reset
10779	DOWNLOADING IN PROGRESS	Guide	WARN RESET

(Option)

Description: Download in progress after click a link on web page to download NC program.

A10780

No.	Name	Level	Reset
10780	CREATE UPLOAD FILE ERROR	Guide	WARN RESET

(Option)

Causes: Error with the preparing a file for uploading machining history data on the machine.

Remedy: Check memory capacity and try again.

A10781

No.	Name	Level	Reset
10781	GET RESULT DATA ERROR	Guide	WARN RESET

(Option)

Causes: Read machining history data error when preparing the uploading file.

Remedy: Check there is some machining history data and try again.

A10782

No.	Name	Level	Reset
10782	UPLOADING IN PROGRESS	Guide	WARN RESET

(Option)

Description: Uploading in progress as you click a link on web page to upload machining history data file to the ftp server.

A10783

No.	Name	Level	Reset
10783	FAIL TO TRANSMIT PROGRAM	Guide	WARN RESET

(Option)

Causes: Sending machining history data error when use uploading function.

Remedy: Check the network connection and memory capacity.

A10784

No.	Name	Level	Reset
10784	ERROR WHEN CONNECTING TO THE SERVER	Guide	WARN RESET

(Option)

Causes: Connecting to the FTP server fail.

Remedy: Check the network connection and the ftp server configuration.

A10785

No.	Name	Level	Reset
10785	SUCCESS TO TRANSMIT PROGRAM	Guide	WARN RESET

(Option)

Description: Machining history data file is successfully uploaded from web server to the ftp server.

A10786

No.	Name	Level	Reset
10786	WRONG URL	Guide	WARN RESET

(Option)

Causes: The link on web page with a wrong URL.

Remedy: Check the Html web page design.

A10787

No.	Name	Level	Reset
10787	PLEASE CHANGE THE MODE TO MANUAL MODE BEFORE LOGON/LOG OFF PRIVILEGE FUNCTION	Guide	WARN RESET

Cause: The “ACTIVATE PRIVILEGE” button of the user privilege function or “LOG OFF” button was pressed in other than manual mode.

Remedy: Switch the mode to the manual mode, and then retry the operation.

A10788

No.	Name	Level	Reset
10788	THIS FUNCTION HAS BEEN DISABLED BY PRIVILEGE FUNCTION	Guide	WARN RESET

Cause: The function or button you tried to operate is inactivated by the user privilege function.

A10789

No.	Name	Level	Reset
10789	THE DEFAULT USERNAME IS [ADMINISTRATOR] WITH EMPTY PASSWORD	Guide	WARN RESET

Cause: This is the information for the log on when the user privilege is active. The default user name is “ADMINISTRATOR” and the password is blank.

A10790

No.	Name	Level	Reset
10790	INVALID USERNAME OR PASSWORD	Guide	WARN RESET

Cause: The entered user name or password is incorrect.

Remedy: Check the user name or password, and then re-enter it.

A10791

No.	Name	Level	Reset
10791	YOU HAVE REACHED THE MAX NUMBER OF USER ALLOWED	Guide	WARN RESET

Cause: The maximum number of users (20 persons) has already been registered.

A10792

No.	Name	Level	Reset
10792	[ADMINISTRATOR] ACCOUNT CANNOT BE DELETED	Guide	WARN RESET

Cause: You tried to delete the "ADMINISTRATOR" account.

A10793

No.	Name	Level	Reset
10793	EMPTY USERNAME IS NOT ALLOWED	Guide	WARN RESET

Cause: You tried to register a blank user name.

A10794

No.	Name	Level	Reset
10794	USERNAME HAS ALREADY EXISTS. PLEASE SELECT A NEW USERNAME.L	Guide	WARN RESET

Cause: You tried to register the user name that already exists.

Remedy: Enter a new user name.

A10795

No.	Name	Level	Reset
10795	NEW PASSWORD DOES NOT MATCH. PLEASE RE-ENTRY AGAIN	Guide	WARN RESET

Cause: The "CONFIRM NEW PASSWORD" does not match the entered "NEW PASSWORD".

Remedy: Check the "NEW PASSWORD" and "CONFIRM NEW PASSWORD", and then re-enter the password.

A10796

No.	Name	Level	Reset
10796	LOGON USER ACCOUNT CANNOT BE DELETED	Guide	WARN RESET

Cause: You tried to delete the logon user account.

Remedy: Please log out once, and log on the user of authority pattern "Full powers limit" again.

A10798

No.	Name	Level	Reset
10798	THIS FUNCTION IS DISABLED DURING REMOTE CONTROL MODE (EDM VIEWER)	Guide	WARN RESET

Description: The function or the button that tries to be operated is invalid according to the remote control of the EDM viewer.

A10800

No.	Name	Level	Reset
10800	ILLEGAL DATA ENTERED	Guide	WARN RESET

Causes: Illegal value was entered.

Remedy: Correct the entered value.

A10802

No.	Name	Level	Reset
10802	ENTER ELECTRODE REDUCTION	Guide	WARN RESET

Causes: The "process store" was executed without entering the electrode reduction value.

Remedy: Enter the electrode reduction value.

A10803

No.	Name	Level	Reset
10803	ENTER MC PACKAGE NO.	Guide	WARN RESET

Causes: The "process store" was executed without entering the machining package number.

Remedy: Enter the machining package number.

A10804

No.	Name	Level	Reset
10804	ENTER MC SHAPE NO.	Guide	WARN RESET

Causes: The "process store" was executed without entering the machining shape number.

Remedy: Enter the machining shape number.

A10805

No.	Name	Level	Reset
10805	ENTER CORNER/TAPER ANGLE	Guide	WARN RESET

Causes: The "process store" was executed without entering the corner/taper angle.

Remedy: Enter the corner/taper angle.

A10806

No.	Name	Level	Reset
10806	ENTER MC DEPTH	Guide	WARN RESET

Causes: The "process store" was executed without entering the machining depth.

Or, the "process store" was executed with the machining depth entered to the C axis only.

Remedy: Enter the machining depth.

A10807

No.	Name	Level	Reset
10807	ENTER MC POS X	Guide	WARN RESET

Causes: The "process store" was executed without entering the machining position X.

Remedy: Enter machining position X.

A10808

No.	Name	Level	Reset
10808	ENTER MC POS Y	Guide	WARN RESET

Causes: The "process store" was executed without entering the machining position Y.

Remedy: Enter machining position Y.

A10809

No.	Name	Level	Reset
10809	ENTER MC POS Z	Guide	WARN RESET

Causes: The "process store" was executed without entering the machining position Z.

Remedy: Enter the machining position Z.

A10810

No.	Name	Level	Reset
10810	POS DATA ARE NOT ENOUGH	Guide	WARN RESET

Causes: The "process store" was executed without entering necessary position data.

Remedy: Enter the position data.

A10811

No.	Name	Level	Reset
10811	INC IS ACCEPTABLE ON E ROTATE OFFSET STATE.	Guide	WARN RESET

Causes: The "process store" was executed with the absolute command instead of incremental command.

Remedy: Select the INC command mode.

A10812

No.	Name	Level	Reset
10812	ENTER COORDINATE NO.	Guide	WARN RESET

Causes: The "process store" was executed without entering the coordinate system number.

Remedy: Enter coordinate system number.

A10813

No.	Name	Level	Reset
10813	ENTER MC POS C	Guide	WARN RESET

Causes: The "process store" was executed without entering the machining position C.

Remedy: Enter machining position C.

A10816

No.	Name	Level	Reset
10816	MC PACKAGE NO. IS NOT DECIDED	Guide	WARN RESET

Causes: The machining condition package of the specified number is not found.

Remedy: Enter the machining condition package number that exists.

A10818

No.	Name	Level	Reset
10818	ENTER SUBPROGRAM NO. OR DATA STORE	Guide	WARN RESET

Causes: The "READY" was turned on/off for the process in which the machining program number is blank.

Remedy: Enter the machining program O number or execute the "process store".

A10819

No.	Name	Level	Reset
10819	THIS PROCESS HAS ALREADY STORED	Guide	WARN RESET

Causes: The "process store" was executed for the "preparation", "machining" and "finish" processes.

Remedy: Turn on/off the "READY".

A10821

No.	Name	Level	Reset
10821	THIS PROCESS DOES NOT HAVE DATA	Guide	WARN RESET

Description: The "process read" was executed for the process not stored. Or, the "process read" was executed for the process in which the program format was changed.

A10822

No.	Name	Level	Reset
10822	READ COMPLETED	Guide	WARN RESET

Description: The "process read" completed successfully.

A10823

No.	Name	Level	Reset
10823	STORED	Guide	WARN RESET

Description: An error occurred during the input of user package.

A10824

No.	Name	Level	Reset
10824	NOT ABLE TO STORE	Guide	WARN RESET

Description: Error occurs during deciding user package data.

A10825

No.	Name	Level	Reset
10825	USER PACKAGE DATA DECIDING	Guide	WARN RESET

Description: The user package is being entered.

A10826

No.	Name	Level	Reset
10826	USER PACKAGE DATA DECIDED	Guide	WARN RESET

Description: The user package input completed successfully.

A10827

No.	Name	Level	Reset
10827	ENTER THE DATA	Guide	WARN RESET

Causes: No data are entered to the items necessary for entering the user package.

Remedy: Enter data into necessary items.

A10829

No.	Name	Level	Reset
10829	INVALID BECAUSE OF OPTION	Guide	WARN RESET

Description: Optional button was pressed.

A10830

No.	Name	Level	Reset
10830	CLOSE FILE ON EDIT SCREEN	Guide	WARN RESET

Causes: The O number for "process store" has been opened on the EDIT screen.

Remedy: Execute the "file close" on the EDIT screen.

A10899

No.	Name	Level	Reset
10899	PLEASE CLOSE E-MAIL DIALOG IN OPTION SCREEN	Guide	WARN RESET

Description: Press [E-Mail] button in Option screen (L3) screen, the "E-mail" dialog will be displayed.
Close the "E-mail" dialog once you have set up your e-mail settings or check the contents.

A10901

No.	Name	Level	Reset
10901	NO HELP	Guide	WARN RESET

Description: The [HELP] key was pressured on the screen where no help is registered.

A10902

No.	Name	Level	Reset
10902	OPERATION CANCELED BECAUSE PUSHING TIME IS SHORT	Guide	WARN RESET

Causes: The time for which you pressed the timer set button was short.
Remedy: Press the button for more than the specified time (0.5, 1, 5 sec).

A10903

No.	Name	Level	Reset
10903	USER MASKING PARAMETER	Guide	WARN RESET

Causes: The function button that you pressed has been masked by the parameter.
Remedy: Change the parameter when that button is to be operated.

A11010 A11012

No.	Name	Level	Reset
11010	INPUT RENG : 0 - 9999	Guide	WARN RESET
11011	INPUT RENG : 54 - 61	Guide	WARN RESET
11012	INPUT OUT OF RANGE	Guide	WARN RESET

Description: The entered value is out of the range.

A11013 A11014

No.	Name	Level	Reset
11013	PLEASE PRESS [↑] OR [↓] TO SELECT THE MENU THEN PRESS [→] TO ACTIVATE TALK ITEM	Guide	WARN RESET
11014	PLEASE SPECIFY THE TALK ITEMS AND PRESS [START] ON FPB TO EXECUTE THE PROGRAM	Guide	WARN RESET

Description: Operation guide for the setup operation.

A11191

No.	Name	Level	Reset
11191	GRAPHIC DATA TRANSFERRED TO MACHINING DATA	Guide	WARN RESET

Description: The drawing data was transmitted to the machining data with pushing [graphic→machining] button on the Graphic screen.

A11192

No.	Name	Level	Reset
11192	MACHINING DATA TRANSFERRED TO GRAPHIC DATA	Guide	WARN RESET

Description: The machining data was transmitted to the drawing data with pushing [machining→graphic] button on the Graphic screen.

A11220

No.	Name	Level	Reset
11220	THE PRODUCT KEY IS NOT CORRECT. PLEASE INPUT AGAIN	Guide	WARN RESET

(Option)

Description: The input product key is not correct, and input the notified product key, please.

A11224

No.	Name	Level	Reset
11224	THE KEY AND CONFIRM KEY ARE NOT SAME. PLEASE INPUT AGAIN	Guide	WARN RESET

(Option)

Cause: The key and confirm key, which typed in the edit boxes, are not same.

Remedy: Check the input key, make sure they are same, and then click [SUBMIT] to continue.

A11225

No.	Name	Level	Reset
11225	MACHINE WILL BE LOCKED ONCE THE KEY IS EXPIRED. INPUT A NEW KEY BEFORE IT EXPIRES	Guide	WARN RESET

(Option)

Cause: The guide message will display at the active screen during the 5 days before the expiry date.

Remedy: Extend the expiry date by a new key.

A11226

No.	Name	Level	Reset
11226	PLEASE ENTER THE VALID MACHINE ACTIVATION KEY	Guide	WARN RESET

(Option)

Cause: The key, which keyed in at the edit box, is invalid key.

Remedy: Get a new valid enable, activate or disable key.

A11227

No.	Name	Level	Reset
11227	PLEASE ENTER THE VALID OEM KEY	Guide	WARN RESET

(Option)

Cause: The key, which keyed in at the edit box, is invalid key.

Remedy: Get a new valid OEM key.

A11228

No.	Name	Level	Reset
11228	THE KEY IS INVALID. PLEASE ENTER A VALID KEY.	Guide	WARN RESET

(Option)

Cause: The key, which keyed in at the edit box, is invalid key.

Remedy: Get a new valid activate or disable key.

A11229

No.	Name	Level	Reset
11229	PLEASE ENTER A NEW MACHINE ACTIVATION KEY	Guide	WARN RESET

(Option)

Cause: The key, which keyed in at the edit box, is invalid key.

Remedy: Get a new valid activation key.

A11230

No.	Name	Level	Reset
11230	OEM KEY IS NEEDED TO REACTIVATE THE MACHINE. PLEASE CONTACT	Guide	WARN RESET

(Option)

Cause: The machine is locked by the OEM lock; it is not allowed to use other key to reactivate.

Remedy: Please contact MINPULS company service to get a new valid OEM key

A11231

No.	Name	Level	Reset
11231	DATE AND TIME CANNOT BE CHANGED WHEN MAF IS ENABLED.	Guide	WARN RESET

(Option)

Cause: When machine activation function is enable, the edit boxes will be changed to grey colour, and not allow to change the date and time.

Remedy: Just rest the message, cannot continue the changing date and time operation.

A12010

No.	Name	Level	Reset
12010	OPERATION DISABLED DURING DRAWING	Guide	WARN RESET

Description: The operation is disabled during the drawing. Retry after the drawing finished.

A12011

No.	Name	Level	Reset
12011	INVALID DRAW-RESET STATUS	Guide	WARN RESET

Description: The operation is disabled in the drawing reset status. Retry in the trace machining status.

A14001

No.	Name	Level	Reset
14001	FILE HAS BEEN CLOSED ()	Guide	WARN RESET

Description: This file is closed.

A14002

No.	Name	Level	Reset
14002	ALARM BLOCK PRESENT IN PROGRAM	Guide	WARN RESET

Causes: Alarm blocks are included in this program.

Remedy: Please correct the part of the red character in the file.

A14003

No.	Name	Level	Reset
14003	SYNTAX ERROR WAS FOUND IN PROGRAM	Guide	WARN RESET

Causes: Alarm blocks are included in this program.

Remedy: Please correct the part of the red character in the file.

A14004

No.	Name	Level	Reset
14004	ILLEGAL PROGRAM No. WAS SPECIFIED	Guide	WARN RESET

Causes: Macro protect function for O10000~ is activated

Remedy: Please set PRM No. 32 to 0.

A14005

No.	Name	Level	Reset
14005	(MACRO)MEMORY WAS NOT ENOUGH DURING COMPILATION	Guide	WARN RESET

Causes: The memory area for program compilation is full.

Remedy: Please delete or move unnecessary program and try again.

A14006

No.	Name	Level	Reset
14006	KIND OF SUB PROGRAM ABOVE 301	Guide	WARN RESET

Causes: Because the kind of the call subprogram of the program input on the edit and the block screen was 301 or more, the check was not completed.

Remedy: Correct the program.

A14500

No.	Name	Level	Reset
14500	ENTER FOLDER NAME	Guide	WARN RESET

Causes: The [CREATE FOLDER] button was pressed without entering the folder name.

Remedy: Enter the folder name on the key-in line, and then press [CREATE FOLDER] button.

A14501

No.	Name	Level	Reset
14501	SAME NAME FOLDER EXIST	Guide	WARN RESET

Causes: You attempted to create a folder having same name as the folder or file that already exists.

Remedy: Enter new folder name on the key-in line to create the folder.

A14502

No.	Name	Level	Reset
14502	CAN'T CREATE FOLDER	Guide	WARN RESET

Description: The folder creation failed.

A14503

No.	Name	Level	Reset
14503	SELECT FOLDER. OR, ENTER FOLDER NAME	Guide	WARN RESET

Causes: The [DELETE FOLDER] button was pressed without entering the folder name or selecting the folder.

Remedy: Enter the folder name on the key-in line or move the cursor to the folder, and press the [DELETE FOLDER] button.

A14504

No.	Name	Level	Reset
14504	CAN'T DELETE EXCEPT FOLDER	Guide	WARN RESET

Causes: The [DELETE FOLDER] button was pressed by selecting other than the folder.

Remedy: In deleting the folder, first select the folder, and then press the [DELETE FOLDER] button.

A14505

No.	Name	Level	Reset
14505	FILE EXISTS IN FOLDER. YOU MUST REMOVE FILE	Guide	WARN RESET

Causes: The folder in which a file exists cannot be deleted.

Remedy: Delete all files in the folder, and then press the [DELETE FOLDER] button.

A14506

No.	Name	Level	Reset
14506	NOT FOUND DELETE FILE	Guide	WARN RESET

Causes: The [DELETE FOLDER] button was pressed by entering the folder name which does not exist.

Remedy: Check the folder name on the key-in line, and then press the [DELETE FOLDER] button.

A14507

No.	Name	Level	Reset
14507	CAN'T DELETE FOLDER	Guide	WARN RESET

Description: The folder deletion failed.

A14508

No.	Name	Level	Reset
14508	SELECT FILE FOR RENAME	Guide	WARN RESET

Causes: The [RENAME FILE] button was pressed without selecting the file to be renamed.

Remedy: Move the cursor to the file to be renamed, and enter the desired file name, then press the [RENAME FILE] button.

A14509

No.	Name	Level	Reset
14509	ENTER NEW FILE NAME	Guide	WARN RESET

Causes: The [RENAME FILE] button was pressed without entering new file name.

Remedy: Enter the desired file name on the key-in line, and then press the [RENAME FILE] button.

A14510

No.	Name	Level	Reset
14510	SAME NAME FILE EXIST	Guide	WARN RESET

Causes: The specified file name already exists.

Remedy: Change the file name to a new name.

A14511

No.	Name	Level	Reset
14511	FAILED RENAME	Guide	WARN RESET

Description: The file renaming failed.

A14512

No.	Name	Level	Reset
14512	INPUT FILE NAME TO OUTPUT	Guide	WARN RESET

Causes: The file name to be outputted must be entered.

Remedy: Enter the file name to be outputted, and then perform the next operation.

A14513

No.	Name	Level	Reset
14513	SELECT ADDITIONAL FILE	Guide	WARN RESET

Causes: The file name to which a program is added must be entered.

Remedy: Enter the file name to add a program, and then perform the next operation.

A14520

No.	Name	Level	Reset
14520	TRANSFERRING PROGRAM	Guide	WARN RESET

Causes: You attempted to transfer a file to the directory where the file having same name exists.

Remedy: If the same name file exists, file overwriting is disabled. First delete that file, and then retry.

A14521

No.	Name	Level	Reset
14521	SELECT FILE	Guide	WARN RESET

Causes: The [DELETE] button was pressed without selecting a file.

Remedy: Select the file to be deleted, and then press the [DELETE] button.

A14522

No.	Name	Level	Reset
14522	CAN'T DELETE FILE	Guide	WARN RESET

Description: Some files cannot be deleted.

A14523

No.	Name	Level	Reset
14523	ILLEGAL O NUMBER. SPECIFY O NO. OF 1 TO 14999	Guide	WARN RESET

Causes: The program (file name) that you attempted to enter in the NC is illegal O number.

Remedy: Change the file name to a correct O number, or specify the O number.

A14524

No.	Name	Level	Reset
14524	CREATING FOLDER!	Guide	WARN RESET

Description: A folder is being created in external storage unit.

A14525

No.	Name	Level	Reset
14525	DELETING FOLDER!	Guide	WARN RESET

Description: A folder in external storage unit is being deleted.

A14526

No.	Name	Level	Reset
14526	FOLDER COMPLETE	Guide	WARN RESET

Description: The folder creation in external storage unit completed.

A14527

No.	Name	Level	Reset
14527	DELETING FILE!	Guide	WARN RESET

Description: A file in external storage unit is being deleted.

A14528

No.	Name	Level	Reset
14528	DELETE OF THE FILE WAS FINISHED	Guide	WARN RESET

Description: The file deletion in external storage unit completed.

A14529

No.	Name	Level	Reset
14529	DELETE OF THE FILE WAS CANCELLED	Guide	WARN RESET

Description: The file deletion in external storage unit was cancelled.

A14530

No.	Name	Level	Reset
14530	THE DISK IS FULL !	Guide	WARN RESET

Causes: The memory to which the files are outputted becomes full.

Remedy: Make a space in the disk for file output.

A14531

No.	Name	Level	Reset
14531	CAN'T CREATE FOLDER	Guide	WARN RESET

Causes: It isn't possible to create folder in the editorial screen when data is transferred.

(1) The same folder name exists already.

(2) The Floppy disk is protected not to re-write.

Remedy: Please operate again after checking above symptom.

A14532 A14533

No.	Name	Level	Reset
14532	ENTER FOLDER NAME	Guide	WARN RESET
14533	INPUT FILE NAME TO OUTPUT	Guide	WARN RESET

Causes: It doesn't specify a folder name or a file name.

Remedy: Please input a folder name or a file name.

A14535

No.	Name	Level	Reset
14535	NOT ENOUGH SPACE ON THE DISK	Guide	WARN RESET

Causes: It failed in the transfer of the program because of the disk free area lack.

Remedy: Please increase disk free area.

A14600

No.	Name	Level	Reset
14600	MEMORY OVER-FLOW! EDITED PROGRAM IS NOT SAVED	Guide	WARN RESET

Causes: It failed to write in because of the disk free area lack.

Remedy: Please increase disk free area.

A14601

No.	Name	Level	Reset
14601	MEMORY OVER-FLOW! CAN'T CREATE O-NO. LIST	Guide	WARN RESET

Causes: It failed to create O-List because of the disk free area lack.

Remedy: Please increase disk free area.

A15201

No.	Name	Level	Reset
15201	INPUT MACHINING CONDITION NUMBER EX.)9000 or E9000	Guide	WARN RESET

Description: Specify the machining condition number, such as E9000.

A15202

No.	Name	Level	Reset
15202	MOVE CURSOR ON THE E NUMBER	Guide	WARN RESET

Description: Perform operation with the cursor moved on the specified O number.

A15203

No.	Name	Level	Reset
15203	OPEN THE PAGE BEFORE THE KEY OPERATION	Guide	WARN RESET

Description: Move the cursor to the specified page, and then perform operation.

A15204

No.	Name	Level	Reset
15204	INPUT SV TO COPY EXE. CONDITION	Guide	WARN RESET

Description: Enter SV and then perform operation.

A24011

No.	Name	Level	Reset
24011	NO MENU IS SELECTED	Guide	WARN RESET

Causes: A button displayed on the screen was pressed without selecting the guidance help.

A32010

No.	Name	Level	Reset
32010	OUTPUTTING PROGRAM	Guide	WARN RESET

Description: The program is being outputted. This guide message disappears when output is completed.

A32012

No.	Name	Level	Reset
32012	OUTPUTTING PROGRAM...PLEASE OPERATE AGAIN AFTER WAITS FOR A WHILE	Guide	WARN RESET

Description: You tried to do the program output while outputting the program.

Remedy: Please operate it again after it waits for a while.

A32013

No.	Name	Level	Reset
32013	CANNOT BE OUTPUTTED BECAUSE PROGRAM IS OPENED GRAPHIC DRAWING OR EXECUTED.	Guide	WARN RESET

Description: Programs at the output destination are in the following either state.

- The program in Program screen is opened.
- The program in Run screen is during starting draw or stopping draw.
- In the start status.

Remedy: (1) Operate it again after confirming above-status.

(2) Turn off the power switch once and then turn it on again, or press the [SCREEN REBOOT] button.

A35000

No.	Name	Level	Reset
35000	DECREASE THE NUMBER OF SELECTED ITEMS TO 10 OR LESS	Guide	WARN RESET

Description: More than 10 files were selected, and the OPEN button was pressed.

Remedy: Operate it again after selecting 10 files or less.

A35001

No.	Name	Level	Reset
35001	SELECT ONE OR MORE FILES	Guide	WARN RESET

Description: Any file was no selected and the OPEN button was pressed.

Remedy: Operate it again after selecting one or more files.

A35003

No.	Name	Level	Reset
35003	CURRENT PROGRAM CANNOT BE OPENED. PLEASE OPERATE AGAIN AFTER RESET	Guide	WARN RESET

Description: Program to open is in the following either state.

- The program in Program screen is opened.
- The program in Run screen is during starting draw or stopping draw.
- In the start status.

Remedy: (1) Operate it again after confirming above-status.

(2) Operate it again after RESET button press.

A35004

No.	Name	Level	Reset
35004	ILLEGAL PROGRAM NO. SPECIFIED	Guide	WARN RESET

Description: The program to be edited is attached with an edit forbid attribute (program protection).

Causes: The contents of protection vary depending on a setting of the set data No.0030, 0031, and 0032.

Ex) You attempted to write or delete the program though the set data No.0030 is set to "1" (writing or deletion of 08000 - 8999 programs is forbidden.)

Remedy: Check a setting of the set data No.0030, 0031, and 0032.

A35005

No.	Name	Level	Reset
35005	DECREASE THE NUMBER OF SELECTED ITEMS TO 1	Guide	WARN RESET

Description: Two or more programs were selected, and Divide/Compile/Comment etc. were operated.

Remedy: Select only one program, and operate it again.

A35006

No.	Name	Level	Reset
35006	DIVIDING PROGRAM	Guide	WARN RESET

Description: The program is being divided. This guide message disappears when division is completed.

A35007

No.	Name	Level	Reset
35007	PLEASE WAIT UNTIL DIVIDING FINISH.	Guide	WARN RESET

Description: You tried to do the program division while dividing the program.

Remedy: Please operate it again after the division finished.

A35008

No.	Name	Level	Reset
35008	DIVIDING PROGRAM ERROR	Guide	WARN RESET

Description: The division of the program failed.

Remedy: (1) Turn off the power switch once and then turn it on again, or press the [SCREEN REBOOT] button.

(2) In case of frequent occurrence, contact to us for repair.

A35009

No.	Name	Level	Reset
35009	CURRENT PROGRAM CANNOT BE OPENED. PLEASE OPERATE AGAIN AFTER RESET	Guide	WARN RESET

Description: Programs to open is in the following either state.

- The program in Program screen is opened.
- The program in Run screen is during starting draw or stopping draw.
- In the start status.

Remedy: (1) Operate it again after confirming above-status.

(2) Operate it again after RESET button press.

A35016

No.	Name	Level	Reset
35016	DIVIDING OF PROGRAM COMPLETED	Guide	WARN RESET

Description: The division of program was completed in PROGRAM screen.

A35017

No.	Name	Level	Reset
35017	PLEASE WAIT FOR PROGRAM DELETE END	Guide	WARN RESET

Description: The program is being deleted in Program screen.

A35018

No.	Name	Level	Reset
35018	PROGRAM DELETE WAS FINISHED	Guide	WARN RESET

Description: The deletion of program was finished in Program screen.

A35019

No.	Name	Level	Reset
35019	PROGRAM DELETE WAS FAILED	Guide	WARN RESET

Description: Program to delete is in the following either state.

- The program in Program screen is opened.
- The program in Run screen is during starting draw or stopping draw.
- In the start status.

Remedy: (1) Operate it again after confirming above-status.

(2) Turn off the power switch once and then turn it on again, or press the [SCREEN REBOOT] button.

A35100

No.	Name	Level	Reset
35100	CONNECT THE NETWORK	Guide	WARN RESET

Description: The machine is being connected to the network.

The message will disappear when the connection has completed.

A35101

No.	Name	Level	Reset
35101	CAN NOT FIND NETWORK NAME	Guide	WARN RESET

Description: The specified network path is wrong.

Remedy: Check the network path setting. (Not used at present)

Note) Refer to the chapter of "Network connection" of OPERATION manual.

A35109

No.	Name	Level	Reset
35109	NETWORK CONNECT FAIL	Guide	WARN RESET

Description: The setting of the network is incorrect.

Remedy: Refer to the chapter of "Network connection" of OPERATION manual.

A35110

No.	Name	Level	Reset
35110	SEARCHING FOLDER	Guide	WARN RESET

Description: The specified folder is being searched.

A35200

No.	Name	Level	Reset
35200	DO NOT HAVE ACCESS RIGHT	Guide	WARN RESET

Description: You made the folder, deleted the folder, or changed the folder name without the access authority.

Remedy: Consult your in-house network administrator about your access authority.

A35201

No.	Name	Level	Reset
35201	PLEASE SPECIFY THE FOLDER NAME	Guide	WARN RESET

Description: File/Folder was deleted without specifying file/folder name.

Remedy: Operate it again after specifying file/folder name.

A35202

No.	Name	Level	Reset
35202	FOLDER NAME IS TOO LONG	Guide	WARN RESET

Description: Because the specified folder name is too long, the folder cannot be made.

Remedy: Operate it again after shortening the folder name.

A35203

No.	Name	Level	Reset
35203	FOLDER NAME IS DISABLE	Guide	WARN RESET

Description: You deleted the file in the folder that does not exist.

Remedy: Operate it again after specifying the existing folder.

A35204

No.	Name	Level	Reset
35204	CAN NOT MAKE ONLY COLON FOLDER NAME	Guide	WARN RESET

Description: You made the folder of the name only of colon (:) newly.

Remedy: Operate it again after specifying another name.

A35205

No.	Name	Level	Reset
35205	CAN NOT BE MADE FOR THE FOLDER TO READ ONLY FOLDER	Guide	WARN RESET

Description: You made the folder newly in the folder only for reading.

Remedy: Operate it again after specifying another folder. Or release the attribute for read only.

A35206

No.	Name	Level	Reset
35206	THE FILE/FOLDER EXISTS. PLEASE SPECIFY THE ANOTER NAME.	Guide	WARN RESET

Description: You made newly file/folder of the same name as the file/folder that already existed.

Remedy: Operate it again after specifying another name.

A35207

No.	Name	Level	Reset
35207	THERE IS NO ACCESS RIGHT, OR THE FILE IS READ ONLY	Guide	WARN RESET

Description: You deleted the file in the folder without the access authority. Or the file is read only.

Remedy: Release the attribute for read only. Or consult your in-house network administrator.

A35208

No.	Name	Level	Reset
35208	THE NAME IS EMPTY OR IMPROPER	Guide	WARN RESET

Description: You made new file/folder that contained the character not permitted.

Remedy: Operate it again after specifying another name.

A35209

No.	Name	Level	Reset
35209	THE SPECIFIED NAME OR PATH IS TOO LONG	Guide	WARN RESET

Description: Because the specified character string is too long, the file/folder cannot be made.

Remedy: Operate it again after specifying another name.

A35210

No.	Name	Level	Reset
35210	RENAME FAILED	Guide	WARN RESET

Description: The name of file/folder was not able to be changed.

A35305

No.	Name	Level	Reset
35305	THE SPECIFIED CHARCTERS WERE NOT FOUND	Guide	WARN RESET

Description: The specified character string is not found in Program screen.

A35306

No.	Name	Level	Reset
35306	REPLACEMENT COMPLETED	Guide	WARN RESET

Description: The replacement of searched character string in Program screen was completed.

A35800

No.	Name	Level	Reset
35800	PASSWORD IS WRONG	Guide	WARN RESET

Description: The entered password in Program screen is incorrect.

Remedy: Input the correct password.

A35801

No.	Name	Level	Reset
35801	USER NAME OR PASSWORD OR DOMAIN IS WRONG	Guide	WARN RESET

Causes: Input logon user or password is wrong.

Remedy: Check the network setting.

Set the domain when you use the domain. Or consult your in-house network administrator.

A35900

No.	Name	Level	Reset
35900	CURRENT PROGRAM CANNOT BE SAVED. PLEASE OPERATE AGAIN AFTER RESET	Guide	WARN RESET

Description: Program to delete is in the following either state.

- The program in Program screen is opened.
- The program in Run screen is during starting draw or stopping draw.
- In the start status.

Remedy: (1) Operate it again after confirming above-status.

(2) Operate it again after RESET button press.

A35949 A35980

No.	Name	Level	Reset
35949	SYSTEM ERROR(1)	Guide	WARN RESET
35950	SYSTEM ERROR(2)	Guide	WARN RESET
35951	SYSTEM ERROR(3)	Guide	WARN RESET
35952	SYSTEM ERROR(4)	Guide	WARN RESET
35953	SYSTEM ERROR(5)	Guide	WARN RESET
35980	SYSTEM ERROR(6)	Guide	WARN RESET

Description: System error.

Remedy: (1) Turn off the power switch once and then turn it on again, or press the [SCREEN REBOOT] button.

(2) In case of frequent occurrence, contact to us for repair.

A35981

No.	Name	Level	Reset
35981	SPECIFIED PROGRAM NOT FOUND	Guide	WARN RESET

Description: The specified file was not opened in Program screen.

Remedy: (1) Turn off the power switch once and then turn it on again, or press the [SCREEN REBOOT] button.

(2) In case of frequent occurrence, contact to us for repair.

A35982 A35989

No.	Name	Level	Reset
35982	SYSTEM ERROR(7)	Guide	WARN RESET
35983	SYSTEM ERROR(8)	Guide	WARN RESET
35984	SYSTEM ERROR(9)	Guide	WARN RESET
35985	SYSTEM ERROR(10)	Guide	WARN RESET
35986	SYSTEM ERROR(11)	Guide	WARN RESET
35987	SYSTEM ERROR(12)	Guide	WARN RESET
35988	SYSTEM ERROR(13)	Guide	WARN RESET
35989	SYSTEM ERROR(14)	Guide	WARN RESET

Description: System error.

Remedy: (1) Turn off the power switch once and then turn it on again, or press the [SCREEN REBOOT] button.

(2) In case of frequent occurrence, contact to us for repair.

