

ALARM LIST

for

MAZATROL FUSION 640M

MANUAL No. : H735SA0023E

Serial No. :

Before using this machine and equipment, fully understand the contents of this manual to ensure proper operation. Should any questions arise, please ask the nearest Technical/Service Center.

IMPORTANT NOTICE

1. Be sure to observe the safety precautions described in this manual and the contents of the safety plates on the machine and equipment. Failure may cause serious personal injury or material damage. Please replace any missing safety plates as soon as possible.
2. No modifications are to be performed that will affect operation safety. If such modifications are required, please contact the nearest Technical/Service Center.
3. For the purpose of explaining the operation of the machine and equipment, some illustrations may not include safety features such as covers, doors, etc. Before operation, make sure all such items are in place.
4. This manual was considered complete and accurate at the time of publication, however, due to our desire to constantly improve the quality and specification of all our products, it is subject to change or modification. If you have any questions, please contact the nearest Technical/Service Center.
5. Always keep this manual near the machinery for immediate use.
6. If a new manual is required, please order from the nearest Technical/Service Center with the manual No. or the machine name, serial No. and manual name.

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SAFETY PRECAUTIONS

Preface

Safety precautions relating to the CNC unit (in the remainder of this manual, referred to simply as the NC unit) that is provided in this machine are explained below. Not only the persons who create programs, but also those who operate the machine must thoroughly understand the contents of this manual to ensure safe operation of the machine.

Read all these safety precautions, even if your NC model does not have the corresponding functions or optional units and a part of the precautions do not apply.

Rule

1. This section contains the precautions to be observed as to the working methods and states usually expected. Of course, however, unexpected operations and/or unexpected working states may take place at the user site.
During daily operation of the machine, therefore, the user must pay extra careful attention to its own working safety as well as to observe the precautions described below.
2. The meanings of our safety precautions to DANGER, WARNING, and CAUTION are as follows:



DANGER

: Failure to follow these instructions could result in loss of life.



WARNING

: Failure to observe these instructions could result in serious harm to a human life or body.



CAUTION

: Failure to observe these instructions could result in minor injuries or serious machine damage.

Basics



- After turning power on, keep hands away from the keys, buttons, or switches of the operating panel until an initial display has been made.
- Before proceeding to the next operations, fully check that correct data has been entered and/or set. If the operator performs operations without being aware of data errors, unexpected operation of the machine will result.
- Before machining workpieces, perform operational tests and make sure that the machine operates correctly. No workpieces must be machined without confirmation of normal operation. Closely check the accuracy of programs by executing override, single-block, and other functions or by operating the machine at no load. Also, fully utilize tool path check, solid check, and other functions, if provided.
- Make sure that the appropriate feed rate and rotational speed are designated for the particular machining requirements. Always understand that since the maximum usable feed rate and rotational speed are determined by the specifications of the tool to be used, those of the workpiece to be machined, and various other factors, actual capabilities differ from the machine specifications listed in this manual. If an inappropriate feed rate or rotational speed is designated, the workpiece or the tool may abruptly move out from the machine.
- Before executing correction functions, fully check that the direction and amount of correction are correct. Unexpected operation of the machine will result if a correction function is executed without its thorough understanding.
- Parameters are set to the optimum standard machining conditions prior to shipping of the machine from the factory. In principle, these settings should not be modified. If it becomes absolutely necessary to modify the settings, perform modifications only after thoroughly understanding the functions of the corresponding parameters. Modifications usually affect any program. Unexpected operation of the machine will result if the settings are modified without a thorough understanding.

Remarks on the cutting conditions recommended by the NC



- Before using the following cutting conditions:
 - Cutting conditions that are the result of the MAZATROL Automatic Cutting Conditions Determination Function
 - Cutting conditions suggested by the Machining Navigation Function
 - Cutting conditions for tools that are suggested to be used by the Machining Navigation Function

Confirm that every necessary precaution in regards to safe machine setup has been taken – especially for workpiece fixturing/clamping and tool setup.
- Confirm that the machine door is securely closed before starting machining.
Failure to confirm safe machine setup may result in serious injury or death.

Programming



- Fully check that the settings of the coordinate systems are correct. Even if the designated program data is correct, errors in the system settings may cause the machine to operate in unexpected places and the workpiece to abruptly move out from the machine in the event of contact with the tool.
- During surface velocity hold control, as the current workpiece coordinates of the surface velocity hold control axes approach zeroes, the spindle speed increases significantly. For the lathe, the workpiece may even come off if the chucking force decreases. Safety speed limits must therefore be observed when designating spindle speeds.
- Even after inch/metric system selection, the units of the programs, tool information, or parameters that have been registered until that time are not converted. Fully check these data units before operating the machine. If the machine is operated without checks being performed, even existing correct programs may cause the machine to operate differently from the way it did before.
- If a program is executed that includes the absolute data commands and relative data commands taken in the reverse of their original meaning, totally unexpected operation of the machine will result. Recheck the command scheme before executing programs.
- If an incorrect plane selection command is issued for a machine action such as arc interpolation or fixed-cycle machining, the tool may collide with the workpiece or part of the machine since the motions of the control axes assumed and those of actual ones will be interchanged. (This precaution applies only to NC units provided with EIA functions.)
- The mirror image, if made valid, changes subsequent machine actions significantly. Use the mirror image function only after thoroughly understanding the above. (This precaution applies only to NC units provided with EIA functions.)
- If machine coordinate system commands or reference position returning commands are issued with a correction function remaining made valid, correction may become invalid temporarily. If this is not thoroughly understood, the machine may appear as if it would operate against the expectations of the operator. Execute the above commands only after making the corresponding correction function invalid. (This precaution applies only to NC units provided with EIA functions.)
- The barrier function performs interference checks based on designated tool data. Enter the tool information that matches the tools to be actually used. Otherwise, the barrier function will not work correctly. (This precaution applies only to the M640T and M640MT.)



- If axis-by-axis independent positioning is selected and simultaneously rapid feed selected for each axis, movements to the ending point will not usually become linear. Before using these functions, therefore, make sure that no obstructions are present on the path.

Operations



WARNING

- Single-block, feed hold, and override functions can be made invalid using system variables #3003 and #3004. Execution of this means the important modification that makes the corresponding operations invalid. Before using these variables, therefore, give thorough notification to related persons. Also, the operator must check the settings of the system variables before starting the above operations.
- If manual intervention during automatic operation, machine locking, the mirror image function, or other functions are executed, the workpiece coordinate systems will usually be shifted. When making machine restart after manual intervention, machine locking, the mirror image function, or other functions, consider the resulting amounts of shift and take the appropriate measures. If operation is restarted without any appropriate measures being taken, collision with the tool or workpiece may occur.
- Use the dry run function to check the machine for normal operation at no load. Since the feed rate at this time becomes a dry run rate different from the program-designated feed rate, the axes may move at a feed rate higher than the programmed value.
- After operation has been stopped temporarily and insertion, deletion, updating, or other commands executed for the active program, unexpected operation of the machine may result if that program is restarted. No such commands should, in principle, be issued for the active program.



CAUTION

- During manual operation, fully check the directions and speeds of axial movement.
- For a machine that requires manual homing, perform manual homing operations after turning power on. Since the software-controlled stroke limits will remain ineffective until manual homing is completed, the machine will not stop even if it oversteps the limit area. As a result, serious machine damage will result.
- Do not designate an incorrect pulse multiplier when performing manual pulse handle feed operations. If the multiplier is set to 100 times and the handle operated inadvertently, axial movement will become faster than that expected.

OPERATIONAL WARRANTY FOR THE NC UNIT

The warranty of the manufacturer does not cover any trouble arising if the NC unit is used for its non-intended purpose. Take notice of this when operating the unit.

Examples of the trouble arising if the NC unit is used for its non-intended purpose are listed below.

1. Trouble associated with and caused by the use of any commercially available software products (including user-created ones)
2. Trouble associated with and caused by the use of any Windows operating systems
3. Trouble associated with and caused by the use of any commercially available computer equipment

- NOTE -

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- NOTE -

1 INTRODUCTION

This list describes the meaning of various alarms used for the MAZATROL FUSION 640M and the procedure to eliminate their cause. For detailed description of the NC system MAZATROL FUSION 640M, refer to the Operating Manual.

If an alarm message is displayed in the alarm display section of the screen, call the **DIAGNOSIS (ALARM)** display to make sure of the type of the alarm.

Then refer to this Alarm List to locate and eliminate the cause of the alarm.

Read this Alarm List and the Operating Manual carefully in order to make the best use of the possibilities of the MAZATROL FUSION 640M.

- NOTE -

2 GENERAL OUTLINE

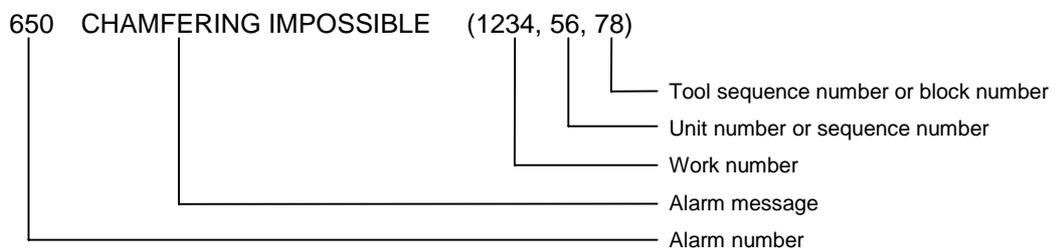
If machine failures occur or if erroneous operations are carried out, appropriate alarm numbers and messages will be displayed in the alarm display section of the screen. If alarm display appears, refer to the Alarm List to locate and eliminate the cause of the alarm. More than one alarm may be raised at once, depending on the particular status of alarm occurring. In the event of alarm display, therefore, it is highly recommended that the operator should call the **DIAGNOSIS (ALARM)** display on the screen and make sure of the type of alarm.

2-1 Machine-Status Indicator Lamps

In the event of alarm, the machine-status indicator lamp ?ALARM on the operation panel will light up.

2-2 Alarm Display

An alarm will be displayed on the **DIAGNOSIS (ALARM)** display in the following format:



For the **DIAGNOSIS (ALARM)** display, refer to Part 3 OPERATING NC UNIT AND PREPARATION FOR AUTOMATIC OPERATION, 10-1 DIAGNOSIS (ALARM) Display of the Operating Manual.

2-3 Color of Alarm Display and its Elimination

Alarm display is presented in either red or blue.

Display color	Alarm elimination
Red	Press the reset key.
Blue	Press the clear key.

- NOTE -

3 STRUCTURE OF THE ALARM LIST

No.	Message	Type of error	Stopped status	Clearing procedure	Display
[1]	[2] Note 1 (, ,)	[3]	[4]	[5]	Note 2
Cause	Cause of alarm				
Action	Action to be taken to eliminate the cause.				

Note 1: See 1 of 4. PRECAUTIONS below.

Note 2: See 2-3 Color of Alarm Display and its Elimination.

[1] Alarm number

[2] Alarm message

[3] Type of error

Code	Type	Description
A	Operation	A wrong key has been pressed. Or the machine has been operated incorrectly.
B	Registered data	The program or tool data includes an error(s).
C	Servo	Malfunctioning of the servo control mechanism
D	Spindle	Malfunctioning of the spindle control mechanism
E	NC equipment	System (hardware/software) error
F	Machine (PLC)	Machine failure
G	External I/O unit	Malfunctioning of external I/O unit

[4] Stopped status

	Status
H	Emergency stop
I	Reset stop
J	Single-block stop
K	Feed stop (hold)
L	Operation continued

[5] Clearing procedure

Code	Procedure
M	Power off → Eliminate cause → Power back on
N	Eliminate cause → Power off → Power back on
O	Eliminate cause → Press reset key
P	Press reset key
Q	Eliminate cause → Press clear key
S	Press clear key

- NOTE -

4 PRECAUTIONS

1. If program-related alarm display appears, that portion of the program in which the alarm has occurred will be displayed within the parentheses next to the alarm message. The meaning of each code in parentheses on the Alarm List is listed in the table below.

Code	Meaning
WNo.	Work number (MAZATROL or EIA/ISO)
UNo.	Unit number (MAZATROL)
SNo.	Tool sequence number (MAZATROL)
NNo.	Sequence number (EIA/ISO)
BNo.	Block number (EIA/ISO)
<i>blank</i>	No display, or intra-system alarm processing code

2. The stopped status ([4]), clearing procedure ([5]), and display color for some types of alarm depend on whether the alarm-encountered program is on the foreground (program selected on the **POSITION** display) or on the background (program selected on the **PROGRAM** display). The above mentioned three types of information for the latter case are indicated with parentheses in the Alarm List.
3. Alarms related to the mechanical and control systems use alarm code numbers from 200 to 399. For descriptions of the alarm code numbers from 200 to 399, refer to the Alarm List of the Machine Operation Manual and the ELECTRIC WIRING DIAGRAM.

4 PRECAUTIONS

- NOTE -

5 ALARM LIST

No.	Message	Type of error	Stopped status	Clearing procedure	Display
001	EMERGENCY STOP (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				
002	EMERGENCY STOP (, ,)	E	H	M	Red
<i>Cause</i>	Trouble has occurred in the hardware.				
<i>Action</i>	Turn power off and then back on. If this does not clear the alarm status, please contact your YAMAZAKI MAZAK products service station.				
003	EMERGENCY STOP (, ,)	A	H	M	Red
<i>Cause</i>	The emergency stop button on the operation panel has been pressed.				
<i>Action</i>	Release the pressed state of the emergency stop button and reset the NC system to its initial state.				
004	— (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				
005	SYSTEM SOFTWARE ERROR (, ,)	E	H	M	Red
<i>Cause</i>	The contents of the system software and/or custom software have been destroyed.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
006	REMOTE I/O ERROR (, ,)	E	H	M	Red
<i>Cause</i>					
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
007	SRAM MALFUNCTION (, ,)	E	H	M	Red
<i>Cause</i>	The S-RAM mounted on the CPU card has become abnormal.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
008	RAM MALFUNCTION (, ,)	E	H	M	Red
<i>Cause</i>	The RAM mounted on the CPU card has become abnormal.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
009	ABSOLUTE POSITION MALFUNCTION (Alarm No., axis,)	E	H	M	Red
<i>Cause</i>	The absolute position detection system has lost absolute position data.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
010	DETECTOR MALFUNCTION (Alarm No., axis,)	E	H	M	Red
<i>Cause</i>	The absolute position detection system has detected its detector error(s).				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
011	POSITION REFERENCE MALFUNCTION (Alarm No., axis,)	E	H	M	Red
<i>Cause</i>	The absolute position detection system has detected an error(s) by cross-checking the absolute position of its detector and the internal coordinate data of the NC system.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
012	ABSOLUTE POSITION WARNING (Alarm No., axis,)	E	H	M	Red
<i>Cause</i>	The absolute position detection system has detected abnormal data.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
013	PRE-PROCESSOR MALFUNCTION (, ,)	E	H	M	Red
<i>Cause</i>	The software is not correctly working.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
	(, ,)				
<i>Cause</i>					
<i>Action</i>					
021	SYSTEM ERROR (, ,)	E	H	M	Red
<i>Cause</i>	The software of the system has become abnormal.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
022	AMPLIFIER NOT EQUIPPED (, ,)	E	H	M	Red
<i>Cause</i>	Amplifier power is not yet turned on. Or no signals are transferred yet.				
<i>Action</i>	Check for an incorrectly connected cable, an incorrectly attached connector, an inadequate input supply voltage to the amplifier, an incorrect axis-number switch setting, etc.				
	(, ,)				
<i>Cause</i>					
<i>Action</i>					
031	SERVO MALFUNCTION 1 (, ,)	C	H	M	Red
<i>Cause</i>	The servo (power-off level) is abnormal.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
032	SERVO PARAMETER MALFUNCTION (, ,)	C	H	M	Red
<i>Cause</i>	The parameters that have been transferred from the NC system to the servo amplifier during NC power-on are not correct.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
033	SERVO MALFUNCTION 2 (, ,)	C	H	M	Red
<i>Cause</i>	The servo (NC reset level) is abnormal.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
034	SERVO MALFUNCTION 3 (, ,)	C	H	M	Red
<i>Cause</i>	The servo (amplifier power-off level) is abnormal.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
	(, ,)				
<i>Cause</i>					
<i>Action</i>					
041	SPINDLE MALFUNCTION 1 (, ,)	C	H	M	Red
<i>Cause</i>	The spindle (power-off level) is abnormal.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
042	SPINDLE PARAMETER MALFUNCTION (, ,)	C	H	M	Red
<i>Cause</i>	The parameters that have been transferred from the NC system to the spindle amplifier during NC power-on are not correct.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
043	SPINDLE MALFUNCTION 2 (, ,)	C	H	M	Red
<i>Cause</i>	The spindle (NC reset level) is abnormal.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
044	SPINDLE MALFUNCTION 3 (, ,)	C	H	M	Red
<i>Cause</i>	The spindle (amplifier power-off level) is abnormal.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
	(, ,)				
<i>Cause</i>					
<i>Action</i>					

5 ALARM LIST

No.	Message	Type of error	Stopped status	Clearing procedure	Display
051	E2ROM MALFUNCTION (, ,)	E	L	D	Blue
<i>Cause</i>	Parameters cannot be correctly written into the E2ROM.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
052	BATTERY ALARM (, ,)	E	L	D	Blue
<i>Cause</i>	The battery provided to retain parameters, machining programs and other types of data within the NC system has reached the minimum voltage level permissible or has run down.				
<i>Action</i>	It is required that the machining data is rechecked for possible loss or that the battery is recharged or replaced. For battery recharging or replacement, refer to the relevant description given in the Maintenance Manual.				
053	NC TEMPERATURE WARNING (, ,)	E	L		Blue
<i>Cause</i>	The temperature of the control unit or operation board has increased above the required level.				
<i>Action</i>	Reduce the temperature by turning off the NC power or by mounting a cooling unit.				
054	DIO5V MALFUNCTION (, ,)	E	H	O	Blue
<i>Cause</i>					
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
055	DIO24V MALFUNCTION (Note, ,)	E	H	O	Blue
<i>Cause</i>					
<i>Action</i>	<p>Please contact your YAMAZAKI MAZAK products service station.</p> <p>Note: & 00 00 01 00</p> <p>The above example indicates that an communications error has occurred in station 1 of the No. 2 system.</p>				
056	SYSTEM SOFTWARE CHECKING (, ,)		H		Red
<i>Cause</i>	The ROMs mounted in the system ROM card are currently being checked for abnormalities.				
<i>Action</i>	<p>Wait for a while.</p> <p>Please contact your YAMAZAKI MAZAK products service station if the alarm is not cleared.</p>				
	(, ,)				
<i>Cause</i>					
<i>Action</i>					

No.	Message	Type of error	Stopped status	Clearing procedure	Display
066	PARAMETER MALFUNCTION (, ,)	E	H	O	Blue
<i>Cause</i>					
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
	(, ,)				
<i>Cause</i>					
<i>Action</i>					
071	ILLEGAL SERVO PARAMETER (, ,)	E	H	O	Blue
<i>Cause</i>					
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
072	SERVO WARNING (, ,)	E	H	O	Blue
<i>Cause</i>					
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
	(, ,)				
<i>Cause</i>					
<i>Action</i>					
081	ILLEGAL SPINDLE PARAMETER (, ,)	E	H	O	Blue
<i>Cause</i>					
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
082	SPINDLE WARNING (, ,)	E	H	O	Blue
<i>Cause</i>					
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
	(, ,)				
<i>Cause</i>					
<i>Action</i>					

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
100	— (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				
101	SOFT LIMIT +X (, ,)	A	K	P	Blue
<i>Cause</i>	During NC operation, the operator has input an incorrect data which would cause the machine to overstep the +X limit regulated by parameter.				
<i>Action</i>	Correct the program and other data so that the machine will move within the soft limits.				
102	SOFT LIMIT -X (, ,)	A	K	P	Blue
<i>Cause</i>	During NC operation, the operator has input an incorrect data which would cause the machine to overstep the -X limit regulated by parameter.				
<i>Action</i>	Correct the program and other data so that the machine will move within the soft limits.				
103	SOFT LIMIT +Y (, ,)	A	K	P	Blue
<i>Cause</i>	During NC operation, the operator has input an incorrect data which would cause the machine to overstep the +Y limit regulated by parameter.				
<i>Action</i>	Correct the program and other data so that the machine will move within the soft limits.				
104	SOFT LIMIT -Y (, ,)	A	K	P	Blue
<i>Cause</i>	During NC operation, the operator has input an incorrect data which would cause the machine to overstep the -Y limit regulated by parameter.				
<i>Action</i>	Correct the program and other data so that the machine will move within the soft limits.				
105	SOFT LIMIT +Z (, ,)	A	K	P	Blue
<i>Cause</i>	During NC operation, the operator has input an incorrect data which would cause the machine to overstep the +Z limit regulated by parameter.				
<i>Action</i>	Correct the program and other data so that the machine will move within the soft limits.				
106	SOFT LIMIT -Z (, ,)	A	K	P	Blue
<i>Cause</i>	During NC operation, the operator has input an incorrect data which would cause the machine to overstep the -Z limit regulated by parameter.				
<i>Action</i>	Correct the program and other data so that the machine will move within the soft limits.				
107	SOFT LIMIT +4th (, ,)	A	K	P	Blue
<i>Cause</i>	During NC operation, the operator has input an incorrect data which would cause the machine to overstep the +4th-axis limit regulated by parameter.				
<i>Action</i>	Correct the program and other data so that the machine will move within the soft limits.				
108	SOFT LIMIT -4th (, ,)	A	K	P	Blue
<i>Cause</i>	During NC operation, the operator has input an incorrect data which would cause the machine to overstep the -4th-axis limit regulated by parameter.				
<i>Action</i>	Correct the program and other data so that the machine will move within the soft limits.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
109	SOFT LIMIT +5th (, ,)	A	K	P	Blue
<i>Cause</i>	During NC operation, the operator has input an incorrect data which would cause the machine to overstep the +5th-axis limit regulated by parameter.				
<i>Action</i>	Correct the program and other data so that the machine will move within the soft limits.				
110	SOFT LIMIT -5th (, ,)	A	K	P	Blue
<i>Cause</i>	During NC operation, the operator has input an incorrect data which would cause the machine to overstep the -5th-axis limit regulated by parameter.				
<i>Action</i>	Correct the program and other data so that the machine will move within the soft limits.				
111	SOFT LIMIT +6th (, ,)	A	K	P	Blue
<i>Cause</i>	During NC operation, the operator has input an incorrect data which would cause the machine to overstep the +6th-axis limit regulated by parameter.				
<i>Action</i>	Correct the program and other data so that the machine will move within the soft limits.				
112	SOFT LIMIT -6th (, ,)	A	K	P	Blue
<i>Cause</i>	During NC operation, the operator has input an incorrect data which would cause the machine to overstep the -6th-axis limit regulated by parameter.				
<i>Action</i>	Correct the program and other data so that the machine will move within the soft limits.				
113	OVER TRAVEL +X (, ,)	A	K	P	Red
<i>Cause</i>	The X-axis has reached its plus (+) stroke limit.				
<i>Action</i>	Move the axis away from the end in manual operation mode.				
114	OVER TRAVEL -X (, ,)	A	K	P	Red
<i>Cause</i>	The X-axis has reached its minus (-) stroke limit.				
<i>Action</i>	Move the axis away from the end in manual operation mode.				
115	OVER TRAVEL +Y (, ,)	A	K	P	Red
<i>Cause</i>	The Y-axis has reached its plus (+) stroke limit.				
<i>Action</i>	Move the axis away from the end in manual operation mode.				
116	OVER TRAVEL -Y (, ,)	A	K	P	Red
<i>Cause</i>	The Y-axis has reached its minus (-) stroke limit.				
<i>Action</i>	Move the axis away from the end in manual operation mode.				
117	OVER TRAVEL +Z (, ,)	A	K	P	Red
<i>Cause</i>	The Z-axis has reached its plus (+) stroke limit.				
<i>Action</i>	Move the axis away from the end in manual operation mode.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
118	OVER TRAVEL -Z (, ,)	A	K	P	Red
<i>Cause</i>	The Z-axis has reached its minus (-) stroke limit.				
<i>Action</i>	Move the axis away from the end in manual operation mode.				
119	OVER TRAVEL +4th (, ,)	A	K	P	Red
<i>Cause</i>	The 4th-axis has reached its plus (+) stroke limit.				
<i>Action</i>	Move the axis away from the end in manual operation mode.				
120	OVER TRAVEL -4th (, ,)	A	K	P	Red
<i>Cause</i>	The 4th-axis has reached its minus (-) stroke limit.				
<i>Action</i>	Move the axis away from the end in manual operation mode.				
121	OVER TRAVEL +5th (, ,)	A	K	P	Red
<i>Cause</i>	The 5th-axis has reached its plus (+) stroke limit.				
<i>Action</i>	Move the axis away from the end in manual operation mode.				
122	OVER TRAVEL -5th (, ,)	A	K	P	Red
<i>Cause</i>	The 5th-axis has reached its minus (-) stroke limit.				
<i>Action</i>	Move the axis away from the end in manual operation mode.				
123	OVER TRAVEL +6th (, ,)	A	K	P	Red
<i>Cause</i>	The 6th-axis has reached its plus (+) stroke limit.				
<i>Action</i>	Move the axis away from the end in manual operation mode.				
124	OVER TRAVEL -6th (, ,)	A	K	P	Red
<i>Cause</i>	The 6th-axis has reached its minus (-) stroke limit.				
<i>Action</i>	Move the axis away from the end in manual operation mode.				
125	ILLEGAL AXIS EXISTS (, ,)	E	H	O	Red
<i>Cause</i>	During reference-point return, the proximity-point detection limit switch has overrun the position in which the watchdog is mounted.				
<i>Action</i>	Either extend the length of the proximity-point watchdog or reduce the reference-point returning speed. After that, carry out the zero-point returning operation once again.				
126	Z AXIS NOT AT HOME (, ,)	E	H	O	Red
<i>Cause</i>	During initial reference-point return following the power-on action, an axis has not passed through the Z phase of the corresponding detector.				
<i>Action</i>	First actuate the handle for manual pulse feed to move the axis back in the opposite direction to the zero-point, and then carry out the zero-point returning operation once again.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
127	ILLEGAL DIR. FOR ORIGIN RETURN (, ,)	A	K	P	Red
<i>Cause</i>	The axis-movement direction selected with the axis selector button is not correct for the reference-point return in manual operation mode.				
<i>Action</i>	Set the correct direction using the axis selector buttons (+, -).				
128	OUTSIDE INTERLOCK AXIS (, ,)	A	K	P	Red
<i>Cause</i>	An axis is interlocked because the interlock function has become active (input signal has turned off).				
<i>Action</i>	Clear the active state of the interlock function.				
129	INSIDE INTERLOCK AXIS (, ,)	A	K	P	Red
<i>Cause</i>	The very direction in which the manual skip function has become effective is specified in the axis-movement command. Or the servo-off function is active.				
<i>Action</i>	Deactivate the servo-off function.				
130	NO OPERATION MODE (, ,)	A	K	P	Red
<i>Cause</i>	This message is displayed in the event of incorrect mode selection or a mode selector switch malfunction.				
<i>Action</i>	In the latter case, check the wiring of the mode selector switches.				
131	CUTTING FEED OVERRIDE ZERO (, ,)	A	K	P	Blue
<i>Cause</i>	The cutting-feed override value is set to 0 on the machine operation panel.				
<i>Action</i>	Change the cutting-feed override value to one greater than 0. If this alarm message is displayed when the cutting-feed override value is not 0, check the signal line for a short-circuit.				
132	FEEDRATE ZERO (, ,)	A	K	P	Blue
<i>Cause</i>	An attempt has been made to execute dry-run in the automatic operation mode or in cutting feed mode, with the manual feedrate remaining set to 0 on the machine operation panel.				
<i>Action</i>	Change the manual feedrate to a value greater than 0. If this alarm message is displayed when the manual feedrate is not 0, check the signal line for a short-circuit.				
133	STOP SPINDLE (, ,)	D	K	N	Red
<i>Cause</i>	Spindle rotation did not start when the spindle rotation start command was issued during automatic operation.				
<i>Action</i>	The spindle amplifier and the encoder must be checked for normal operation. Please contact your YAMAZAKI MAZAK products service station.				
134	SPINDLE ROTATION EXCEEDED (, ,)	D	K	N	Red
<i>Cause</i>	The spindle-speed limit has been exceeded.				
<i>Action</i>	Reduce the spindle speed. The spindle amplifier must be checked for normal operation. Please contact your YAMAZAKI MAZAK products service station.				
135	BLOCK START INTERLOCK (, ,)	B	K	N	Red
<i>Cause</i>	The interlock signal to lock the start of the program block has been input.				
<i>Action</i>	The sequence program needs checking for normal functioning. Please contact your YAMAZAKI MAZAK products service station.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
145	REQUIRE ABSOLUTE RECOVERY (Alarm No., ,)	C	K	P	Blue
<i>Cause</i>	The absolute position data has become lost. Trouble has occurred in the absolute position detector.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
147	C AXIS TURNING ANGLE OVER (WNo.,NNo.,BNo.)	E	I (L)	O	Red
<i>Cause</i>	1. The rotational angle limit at the shaping block connections has been exceeded. 2. The radius of the arc has decreased below the rotational radius of the C-axis.				
<i>Action</i>	1. Review the program. 2. Review the setting of parameter K1 (rotational radius of the C-axis).				
<i>Cause</i>					
<i>Action</i>					
191	FILE SYSTEM I/O ERROR (WNo., UNo., SNo.)	E	L	S	Blue
<i>Cause</i>	An internal error(s) has occurred during program data change by the function of VFC, MMS etc.				
<i>Action</i>	After checking the entire data of the program being executed, tool data, tool file, parameters, etc., save the data using the data I/O operation (CMT) and then contact your YAMAZAKI MAZAK products service station.				
192	EXECUTION IMPOSSIBLE (WNo., UNo., SNo.)	E	L	S	Blue
<i>Cause</i>	An internal error(s) has occurred during execution of the MMS unit.				
<i>Action</i>	After checking the entire data of the program being executed, tool data, tool file, parameters, etc., save the data using the data I/O operation (CMT) and then contact your YAMAZAKI MAZAK products service station.				
193	NO TOOL IN MAGAZINE (WNo.,UNo., SNo.)	B	L	S	Blue
<i>Cause</i>	Tool data that correspond to the pocket numbers being displayed in the "TNo." item of the POSITION display are unregistered.				
<i>Action</i>	Register the tool data.				
194	NO TOOL DATA IN PROGRAM (WNo., UNo., SNo.)	E	L	S	Blue
<i>Cause</i>	An internal error(s) has occurred when circumferential speed or feedrate changing by VFC function was under way.				
<i>Action</i>	After checking the entire data of the program being executed, tool data, tool file, parameters, etc., save the data using the data I/O operation (CMT) and then contact your YAMAZAKI MAZAK products service station.				
195	WRONG MEASURING DIRECTION (, ,)	A	L	P	Red
<i>Cause</i>	During the second or subsequent rounds of manual measurement, an attempt has been made to perform skipping in a direction not available for measurement.				
<i>Action</i>	Perform measurements in the correct direction.				
196	WRONG MEASURING POINT (, ,)	A	L	P	Red
<i>Cause</i>	During the second or subsequent rounds of manual measurement, an attempt has been made to measure an illegal point.				
<i>Action</i>	Measure correct points.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
197	UNREGISTERED HEAD DATA (, ,)	B	L	S	Blue
<i>Cause</i>	Head data of the head number being used during MMS or MDI MMS manual measurement does not exist.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
198	NO HEAD DATA (, ,)	B	L	S	Blue
<i>Cause</i>	Head data of the head number being used during MMS or MDI MMS manual measurement is partly missing.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
199	DIVISION BY ZERO (, ,)		K	S	Blue
<i>Cause</i>	An attempt has been made to carry out divisions by zero inside the NC system during measurement of the degree-of-straightness on the MEASURE display.				
<i>Action</i>	Check the touch sensor for abnormalities. Carry out measurements once again if the touch sensor is normal.				
	(, ,)				
<i>Cause</i>					
<i>Action</i>					

No.	Message	Type of error	Stopped status	Clearing procedure	Display
400	— (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				
401	ILLEGAL FORMAT (, ,)	A	L	S	Blue
<i>Cause</i>	The format of the input data is not an available one. Example: Negative data has been input to an item that rejects negative data input.				
<i>Action</i>	Press the data cancellation key and then input correct data.				
402	ILLEGAL NUMBER INPUT (, ,)	A	L	S	Blue
<i>Cause</i>	1. The work number of a display inhibiting program was specified. 2. The numeric value that has been input is out of the allowable range.				
<i>Action</i>	1. The operation concerned cannot be performed for the program of display inhibition (Program management function). 2. Press the clear key and then input correct data.				
403	PROGRAM TOO LARGE (, ,)	A	L	S	Blue
<i>Cause</i>	The limit of 250 lines per program has been exceeded.				
<i>Action</i>	Recreate the program so that it consists of 250 lines or less.				
404	MEMORY CAPACITY EXCEEDED (, ,)	A	L	S	Blue
<i>Cause</i>	1. Additional creation of a machining program is no longer possible since the memory has already been filled up to its machining-program data storage capacity. 2. Additional preparation of process control data is no longer possible since 100 sets of such data have already been stored. 3. Additional preparation of program layout data is no longer possible since 1000 sets of such data have already been stored.				
<i>Action</i>	Make an available storage area by either erasing an unnecessary machining program from the memory or saving a machining program onto an external storage, and then create a new machining program.				
405	PROGRAM No. NOT FOUND (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to select a program whose work number has not been registered.				
<i>Action</i>	Select a program whose work number has been registered.				
406	MEMORY PROTECT (, ,)	A	L	S	Blue
<i>Cause</i>	1. Inhibiting operation (editing, erasing, renumber of work number and entry of names) has been performed for the edit-inhibiting program. 2. PROGRAM LOCK/ENABLE switch on the operation panel is set to the LOCK position. 3. An attempt has been made to carry out "TOOL NAME ORDER" operation while a tool remains set in the spindle.				
<i>Action</i>	1. The operation concerned cannot be performed for the edit-inhibiting program (program management function). 2. Set the PROGRAM LOCK/ENABLE switch to the ENABLE position. 3. Remove the tool from the spindle, and then carry out the operation once again.				
407	DESIGNATED DATA NOT FOUND (, ,)	A	L	S	Blue
<i>Cause</i>	The number or character string that has been designated does not exist in the program.				
<i>Action</i>	Designate an existent number or character string.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
408	PROGRAM ERROR (, ,)	A	L	S	Blue
<i>Cause</i>	The memory contents in the machining-program data storage area have been destroyed.				
<i>Action</i>	Delete the corresponding program.				
409	ILLEGAL INSERTION (, ,)	A	L	S	Blue
<i>Cause</i>	Program data insertion is not possible.				
<i>Action</i>	It is not possible to insert data before the common program unit.				
410	ILLEGAL DELETION (, ,)	A	L	S	Blue
<i>Cause</i>	Program deletion is not possible. - An attempt has been made to erase “%” during editing of the MAZATROL program.				
<i>Action</i>	It is not possible to delete the common unit. - Edit the program only after moving the cursor to the position where the data exists.				
411	POWER OFF DURING PROGRAM EDIT (, ,)	A	L	S	Blue
<i>Cause</i>	A portion of the program may have been destroyed because power has been turned off during program editing.				
<i>Action</i>	Check the corresponding program for incorrect data, and correct the program data if an error(s) exists in it.				
412	SUB PROGRAM NESTING EXCEEDED (, ,)	A	L	S	Blue
<i>Cause</i>	The number of repeats of subprogram nesting has exceeded nine times.				
<i>Action</i>	Correct the program so that the total number of repeats of subprogram nesting becomes nine or less.				
413	MAX. No. OF REGIST PROG EXCEEDED (, ,)	A	L	S	Blue
<i>Cause</i>	The program registration has exceeded its maximum value available (up to 960 programs).				
<i>Action</i>	Delete an unnecessary program(s) from the memory, or save all the necessary programs onto an external storage and then delete an unnecessary program.				
414	AUTO CALCULATION IMPOSSIBLE (Note, ,)	A	L	S	Blue
<i>Cause</i>	Automatic calculation of circumferential speed and feedrate is not possible. Note: The sub-error codes displayed when the NAVIGATE menu is selected on the MACHINING NAVIGATION-PREDICTION display are listed below. -1: MAZATROL program file-opening error -2: MAZATROL program file-reading error -3: Tool materials mismatch error (when tool materials numbers are acquired) -4: Surface velocity auto-setting error -5: File-opening error relating to the basic coefficients of the workpiece materials upper-limit values -6: Workpiece materials mismatch error -7: File-opening error relating to surface velocity data tables -8: Tool materials mismatch error 2: Navigation file missing				
<i>Action</i>	Check and correct the tool sequence data or machining unit of the program.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
415	MIS-SET G CODE (, ,)	B	L	S	Blue
<i>Cause</i>	A G-code not covered by the specifications has been designated.				
<i>Action</i>	Check and correct the G-code addresses within the program.				
416	AUTO PROCESS IMPOSSIBLE (, ,)	A	L	S	Blue
<i>Cause</i>	Tools cannot be automatically developed because of errors of the machining-unit data.				
<i>Action</i>	Check and correct the machining-unit data.				
417	EDITING PROHIBITED (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to modify a program whose editing is prohibited.				
<i>Action</i>	Modify the data only after cancelling the parameter setting of prohibition of editing.				
418	EIA/ISO CONVERTING (, ,)	A	L	S	Blue
<i>Cause</i>	During EIA/ISO conversion, an attempt has been made to perform erasure, work number change or editing of the conversion source program. Or an attempt has been made to select the TOOL PATH CHECK display.				
<i>Action</i>	During EIA/ISO conversion, erasure, work number change or editing of the conversion source program cannot be done. The TOOL PATH CHECK display cannot be selected.				
419	AUTO TAP PROCESS IMPOSSIBLE (, ,)	A	L	S	Blue
<i>Cause</i>	The pitch or other data cannot be automatically set because of incorrectness of the tap nominal diameter in the tapping-unit data. Despite the fact that U.S.A. specifications-based pipe tap auto-setting is valid (D95 bit 0 = 1), the auto-setting function cannot be executed since the auto-setting text file (Pipescdt. txt) is incorrect or contains no data.				
<i>Action</i>	Check and correct the tapping-unit data and tapping-tool sequence data of the program. Check and correct the auto-setting text file (Pipescdt. txt).				
420	SAME DATA EXISTS (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to input the same data as that which has already been registered. 1. Pocket number in the TOOL LAYOUT display. 2. Machining-program number (changed) 3. Machining priority number				
<i>Action</i>	Check and correct the data settings.				
421	DATA NOT FOUND (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to designate the data that does not exist.				
<i>Action</i>	Check whether the designated data exists.				
422	MEMORY PROTECT (I/O BUSY) (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to edit or input the machining program, tool data, etc. during I/O operation.				
<i>Action</i>	Wait until the I/O operation is completed, and then repeat the editing or input operation from the beginning.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
423	MAX NUMBER OF TOOLS EXCEEDED (, ,)	A	L	S	Blue
<i>Cause</i>	During tool layout, the number of tools used in the designated program has exceeded the maximum available number.				
<i>Action</i>	Check and correct the corresponding machining program so that the maximum available number of tools is not exceeded.				
424	ALL POCKET NUMBERS NOT ASSIGNED (, ,)	A	L	S	Blue
<i>Cause</i>	It is not possible to finish the tool layout operation because the pocket number has not yet been assigned to all the required tools.				
<i>Action</i>	Assign the pocket number(s) and then finish the tool layout operation.				
425	DATA MISSING (, ,)	A	L	S	Blue
<i>Cause</i>	Processing is not possible because of lack of data. 1. Saving or loading has been attempted without designating any data (such as work numbers, etc.) on the DATA I/O display. 2. The data to be input for restart operation is wanting.				
<i>Action</i>	Input data correctly.				
426	PROGRAM DATA MISSING (, ,)	A	L	S	Blue
<i>Cause</i>	The tool sequence data cannot be automatically developed because of partial lack of the machining-unit data.				
<i>Action</i>	Fill up all the machining-unit data items with data.				
427	MEMORY PROTECT (AUTO MODE) (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to input unallowable data in the automatic operation mode.				
<i>Action</i>	Change the mode over to the manual mode, and then input the data.				
428	MEMORY PROTECT (AUTO OPERATION) (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to input unallowable data on a display (such as the TOOL DATA display) during automatic operation.				
<i>Action</i>	Input allowable data only after placing the NC equipment in its reset state or after changing the current mode over to another mode.				
429	MEASURING NOT ALLOWED (, ,)	A	L	S	Blue
<i>Cause</i>	The following conditions were not satisfied: Coordinate measurement 1. Automatic operation must not be in progress. 2. The spindle must have a tool mounted on it. 3. The tool data of the tool mounted on the spindle must have already been input. Tool-length measurement 1. Automatic operation must not be in progress.				
<i>Action</i>	Set the specified conditions and then make the measurement.				
430	ILLEGAL TOOL DESIGNATED (, ,)	A	L	S	Blue
<i>Cause</i>	During creation of a machining program, an attempt has been made to input a tool name not available for the particular program unit, in the tool sequence.				
<i>Action</i>	Designate a correct tool name.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
431	ILLEGAL PALLET No. (, ,)	A	L	S	Blue
<i>Cause</i>	A nonexistent pallet number has been designated.				
<i>Action</i>	Designate a correct pallet number.				
432	ILLEGAL TOOL No. (, ,)	A	L	S	Blue
<i>Cause</i>	A nonexistent tool number has been designated.				
<i>Action</i>	Designate a correct tool number.				
433	SAME PROGRAM EXISTS (, ,)	A	L	S	Blue
<i>Cause</i>	The number of the machining program that has been designated for program reading from an external unit already exists within the NC memory.				
<i>Action</i>	Check the number of the machining program.				
434	NO ASSIGNED TOOL IN TOOL FILE (, ,)	A	L	S	Blue
<i>Cause</i>	The milling tools (face-mills, end-mills, chamfering cutters, and ball end-mills) that have been designated on the machining program include a one(s) that is not yet registered in the TOOL FILE display.				
<i>Action</i>	Register the corresponding tools in the TOOL FILE display.				
435	PROGRAM CHECK NOT ALLOWED (, ,)				
<i>Cause</i>	An attempt has been made to restart on the TOOL PATH display during checking of the tool path.				
<i>Action</i>	Interrupt the tool path checking operation before restarting.				
436	UNREGISTERED TNo. (, ,)	A	L	S	Blue
<i>Cause</i>	An unregistered tool number has been designated in the automatic tool-length measurement mode.				
<i>Action</i>	Designate a tool number registered in the TOOL DATA display.				
437	NO NOM- ϕ DATA IN PROGRAM (, ,)	A	L	S	Blue
<i>Cause</i>	It has been found during tool layout that there is a tool without a nominal diameter in the designated program.				
<i>Action</i>	Check if nominal diameters have been assigned to all tools registered in the designated program.				
438	END UNIT NOT FOUND (, ,)	A	L	S	Blue
<i>Cause</i>	The end unit is not included in the machining program.				
<i>Action</i>	Create the end unit at the end of the program.				
439	MAZATROL PROGRAM DESIGNATED (, ,)	A	L	S	Blue
<i>Cause</i>	1. The machining program that has been designated for the tape punching machine is a MAZATROL program. 2. A MAZATROL program has been designated for copying purposes during EIA/ISO program editing.				
<i>Action</i>	No MAZATROL programs can be designated for tape punching machine or for copying purposes during EIA/ISO program editing.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
440	EIA/ISO PROGRAM DESIGNATED (, ,)	A	L	S	Blue
<i>Cause</i>	1. The machining program that has been designated on the TOOL LAYOUT or PROCESS CONTROL display is an EIA/ISO program. 2. An EIA/ISO program has been designated for copying purposes during MAZATROL program editing. 3. An EIA/ISO program has been designated as the source program of EIA/ISO conversion. 4. An EIA/ISO program has been designated when writing coordinate values on the MEASURE display.				
<i>Action</i>	No EIA/ISO programs can be designated for operation on the TOOL LAYOUT , PROCESS CONTROL or MEASURE display or during EIA/ISO conversion or MAZATROL program editing.				
441	UNREGISTERED HEAD DATA (, ,)	B	L	S	Blue
<i>Cause</i>	The head number that has been designated during MDI-MMS setting does not exist in the head data.				
<i>Action</i>	Review the designated head number.				
442	DATA RENEWAL NOT ALLOWED (, ,)	A	L	S	Blue
<i>Cause</i>	No updates can be made to the machining program.				
<i>Action</i>	This message may also be displayed when the NC equipment is busy processing data. Press the clear key and then carry out the operation once again.				
443	HELP IS NOT AVAILABLE (, ,)	A	L	S	Blue
<i>Cause</i>	No help display is prepared for items other than machining units.				
<i>Action</i>	Move the cursor to a machining unit line to get a help display.				
444	EDITING PROHIBITED AREA (, ,)	A	L	S	Blue
<i>Cause</i>	During automatic operation based on the EIA MONITOR display, an attempt has been made to move the cursor to the program section whose editing was prohibited.				
<i>Action</i>	The cursor cannot be moved to the area where editing is prohibited.				
445	ILLEGAL UNIT (, ,)	B	L	S	Blue
<i>Cause</i>	An attempt has been made to set tool layout data in a MAZATROL program containing an illegal unit(s).				
<i>Action</i>	Review the program.				
446	RESTART TIMES EXCEEDED (, ,)	A	L	S	Blue
<i>Cause</i>	The block to be searched for at the time of restart of the EIA/ISO program does exist, but the designated number of times of reappearance of the block is too large.				
<i>Action</i>	Check the number of times of reappearance of the block.				
447	PROGRAM ERROR (, ,)	A	L	S	Blue
<i>Cause</i>	A program error(s) has occurred during EIA/ISO restart search.				
<i>Action</i>	The program being searched for includes an error(s). Perform a tool-path check upon the program contents.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
448	RESTART SEARCH UNFINISHED (, ,)				
<i>Cause</i>	EIA/ISO restart searching has not been executed.				
<i>Action</i>	Designate the restart position and press the EIA/ISO SEARCH to search the intended restart position.				
449	RESTART SEARCH FINISHED (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to carry out another search operation when EIA/ISO restart searching had already been finished.				
<i>Action</i>	Press the reset key and then carry out the restart operation once again.				
450	TOUCH SENSOR NOT IN SPINDLE (, ,)	A	L	S	Blue
<i>Cause</i>	The spindle did not have a mounted touch sensor when an attempt was made to set MAZATROL coordinate measurement data on the PROGRAM display (MAZATROL).				
<i>Action</i>	Mount a touch sensor in the spindle before setting the data.				
451	SAME MATERIAL ENTERED (, ,)	B	L	S	Blue
<i>Cause</i>	The materials name that has been designated on the CUTTING CONDITION (MATERIAL) display already exists.				
<i>Action</i>	Designate a new materials name.				
452	NO SHAPE DATA IN UNIT (, ,)	A	L	S	Blue
<i>Cause</i>	No shape data exists in the program unit that has been designated in an attempt to make a copy of shape data.				
<i>Action</i>	Check the contents of the program unit for which shape copying is to be made.				
453	NO SHAPE DATA TO COPY IN UNIT (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to copy shape data whose type is not available for the particular program unit.				
<i>Action</i>	It is not possible to copy shape data of the pallet-changing unit, index unit, or other units that do not have a shape sequence.				
454	CURSOR POSITION INCORRECT (, ,)	A	L	S	Blue
<i>Cause</i>	Processing not permissible for the current cursor position has been attempted. Example 1: An attempt has been made to carry out a shape copying operation with the cursor on the tool sequence line. Example 2: The SHAPE CHECK display has been selected on a shape sequence line not actually executed during automatic operation.				
<i>Action</i>	Example 1: No shape data can be copied on the tool sequence line. Example 2: Review the program.				
455	SAME PROGRAM No. DESIGNATED (, ,)	A	L	S	Blue
<i>Cause</i>	The machining program currently being edited has been appointed for the particular program copying operation.				
<i>Action</i>	Copying within the same program is not possible. Check the designated program number.				
456	NO TOOL IN SPINDLE (, ,)	A	L	S	Blue
<i>Cause</i>	The spindle does not currently have a tool mounted on it.				
<i>Action</i>	After mounting a tool on the spindle, carry out the particular operation once again.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
457	DATA ADDRESS NOT FOUND (, ,)	A	L	S	Blue
<i>Cause</i>	During creation of manual program mode unit, data setting has been attempted without addressing.				
<i>Action</i>	During creation of the manual program mode unit, designate an address before setting data.				
458	INTERFERING TOOL REGISTERED (, ,)				
<i>Cause</i>	An attempt has been made to register a tool most likely to interfere with an adjacent pocket. Example 1: An attempt has been made to register tool data or tool change data on the TOOL DATA display. Example 2: An attempt has been made to set such a tool on the TOOL LAYOUT display that is likely to interfere with an adjacent pocket.				
<i>Action</i>	Select a pocket that does not cause interference with an adjacent one.				
459	DISPLAY PROTECT (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to display a program whose display is prohibited.				
<i>Action</i>	Display the program only after cancelling the parameter setting of prohibition of display.				
460	PRINTER IN OPERATION (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt was made to print out the data by using of the DATA I/O display (PRINTER) while the hard copy is being made. An attempt was made on the TRACE display to perform display scaling change, material shape and tool path drawing while the hard copy is being made.				
<i>Action</i>	After finishing the hard copy, carry out the operations.				
461	PRIORITY No. OVERLAP (WNo., UNo., SNo.)	A	L	S	Blue
<i>Cause</i>	The same priority number is assigned to different tools.				
<i>Action</i>	Within one process, the same priority number must not be assigned to different tools. Change the priority number.				
462	ILLEGAL PRIORITY NUMBER (WNo., UNo., SNo.)	A	L	S	Blue
<i>Cause</i>	The priority numbering order within a unit is not correct.				
<i>Action</i>	The machining order within one unit has been reversed by the incorrect priority numbering. Change the priority numbers.				
463	PRIORITY No. OVERFLOW (, ,)	A	L	S	Blue
<i>Cause</i>	A priority number exceeding 99 has occurred because an attempt has been made to move a priority number(s) on the PROGRAM LAYOUT display.				
<i>Action</i>	Set priority numbers in the correct order, and then move the desired priority number(s).				
464	ILLEGAL ADDRESS INPUT (, ,)	A	L	S	Blue
<i>Cause</i>	An address not covered by the specifications has been designated during input of subprogram unit addresses on the PROGRAM display (MAZATROL).				
<i>Action</i>	Check and correct the address. Check the specifications.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
465	EIA SHAPE DATA NOT FOUND (, ,)	A	L	S	Blue
<i>Cause</i>	Although an attempt has been made to draw a workpiece shape using the selected EIA/ISO program, shape data is not present in that program.				
<i>Action</i>	Recheck the program. If the program is that which has been obtained by EIA/ISO conversion output, change the setting of the bit 0 of parameter F89 to 1 and then carry out the converting operation once again.				
466	INCORRECT EIA SHAPE DATA (, ,)	A	L	S	Blue
<i>Cause</i>	Although an attempt has been made to draw a workpiece shape using the selected EIA/ISO program, the corresponding shape data is not correct.				
<i>Action</i>	Review the program.				
467	— (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				
468	MAINTENANCE CHECK WARNING (, ,)		L	S	Blue
<i>Cause</i>	The target time of the items which had been set on the MAINTENANCE CHECK display has been exceeded.				
<i>Action</i>	Carry out periodic checks, and then after completion of the checks, reset the target time of the check items of the MAINTENANCE CHECK display to zero (0).				
469	TPC DATA EDIT IMPOSSIBLE (, ,)	A	L	S	Blue
<i>Cause</i>	The TPC data setting is not possible for the designated unit.				
<i>Action</i>	Check the program.				
470	ILLEGAL TPC DATA (, ,)	B	L	S	Blue
<i>Cause</i>	The TPC data for the unit is not correct. After setting the TPC data, the unit machining mode has been changed.				
<i>Action</i>	Delete the TPC data and set correct TPC data once again whenever required.				
471	TPC DATA NOT FOUND (, ,)	A	L	S	Blue
<i>Cause</i>	While the cursor was on a line of unit not containing TPC data on the display, the TPC menu key was pressed during the program list mode.				
<i>Action</i>	Press the TPC menu key after shifting to the programming mode.				
472	CALCULATION ERROR (, ,)	B	L	S	Blue
<i>Cause</i>	The calculation expressions displayed in the desk calculator window includes expressions that result in a calculation failure.				
<i>Action</i>	Review the calculation expressions, and correct nonexecutable sections, such as those which may include division by 0 or result in a negative number in SQRT.				
473	— (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				

5 ALARM LIST

No.	Message	Type of error	Stopped status	Clearing procedure	Display
474	NO PROGRAM DISPLAY (TAPE MODE) (, ,)	A	L	S	Blue
Cause	1. During tape operation mode, an attempt has been made to select the EIA MONITOR display or to open the EIA monitor window. 2. An attempt has been made to change the operation mode to tape operation mode when the EIA MONITOR display is selected or the EIA monitor window is opened.				
Action	1. During tape operation mode, programs cannot be displayed on the EIA MONITOR display or in the EIA monitor window. 2. Select other than the EIA MONITOR display or close the EIA monitor window before changing the operation mode to tape operation mode.				
475	NO EIA/ISO OPTION (, ,)	A	L	S	Blue
Cause	An attempt has been made to use an EIA/ISO-option related function in spite of the absence of an EIA/ISO option.				
Action	An EIA/ISO-option related function cannot be used since the system has no EIA/ISO option.				
476	NO OPTION (, ,)	A	L	S	Blue
Cause	An attempt has been made to use an optional function in spite of the absence of that option.				
Action	This function cannot be used since the system does not have the option for the function.				
477	SOLID DESCRIPTION IMPOSSIBLE (STS, ,)				
Cause	STS	Cause			
	1	Memory insufficient			
	2	Calculation impossible			
	3	Necessary data not set			
Action	STS	Action			
	1	Divide the program.			
	2	Check the parameter.			
	3	Check the setting range of the tool data.			
478	MEMORY PROTECT (MEASURING) (, ,)	A	L	S	Blue
Cause	An attempt has been made to copy the coordinates data in WRITE DATA column of the MEASURE display into the designated position, while measurement using the MEASURE display is in progress.				
Action	Copy the coordinates data only after the measurement has been completed.				
	(, ,)				
Cause					
Action					
497	HEAD ANGLE INCORRECT (, ,)	A	L	S	Blue
Cause	1. An attempt has been made to strage the tool tip position with the head not in its horizontal machining position (TOOL DATE or TOOL OFFSET display only). 2. An attempt has been made to perform MDI-MMS operation with the head not in its horizontal or vertical machining position.				
Action	1. Tool tip position strage (tool length measurement) is possible only with the head in its horizontal machining position. 2. MDI-MMS is possible only with the head in its horizontal or vertical machining position.				
					<HV>
498	NO HEAD DATA (, ,)	A	L	S	Blue
Cause	Offset data for the selected head is not registered on the HEAD OFFSET display.				
Action	Check if the selected head data is registered on the HEAD OFFSET display.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
499	ILLEGAL HEAD TYPE (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to perform tool tip position storage for on the TOOL DATE or TOOL OFFSET display during use of the horizontal type of head.				
<i>Action</i>	To perform tool tip position storage for tool length measurement, mount a vertical head or a cover.				

5 ALARM LIST

No.	Message	Type of error	Stopped status	Clearing procedure	Display
500	— (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				
501	ILLEGAL FORMAT (, ,)	A	L	S	Blue
<i>Cause</i>	A cassette tape or floppy disk that contains data other than M640M or M PLUS data has been set.				
<i>Action</i>	Set the cassette tape or floppy disk that contains M640M or M PLUS data.				
502	CANNOT LOAD (PROG SIZE EXCEED) (WNo., ,)	A	L	S	Blue
<i>Cause</i>	The contents of the cassette tape or floppy disk are not correct. (Loading of a MAZATROL program of more than 250 lines of data has been attempted.)				
<i>Action</i>	Either use another cassette tape (or floppy disk) or save the program data once again. After that, carry out the load operation once again.				
503	CANNOT LOAD (TOO MANY PROGRAMS) (WNo., ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to load more machining programs than the maximum number of programs that can be registered within the NC system.				
<i>Action</i>	Delete unnecessary programs, or save the programs onto an external storage and then delete them. After that, load the particular program.				
504	CANNOT LOAD (AUTO OPERATION) (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made during automatic operation to load data other than machining programs.				
<i>Action</i>	Load the data only after completion of automatic operation.				
505	CANNOT LOAD (MISMATCH) (, ,)	A	L	S	Blue
<i>Cause</i>	Loading has been attempted although the data within the cassette tape or floppy disk does not match to the NC system (Mismatching in data size, etc.).				
<i>Action</i>	Check if the data saved on the cassette tape or floppy disk is the data to be used for the machine currently in operation.				
506	SAME PROGRAM No. DESIGNATED (WNo., ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to load the machining program that has the same work number as that of a machining program registered within the NC system.				
<i>Action</i>	Check for an overlapping work numbers.				
507	NO DESIGNATED PROGRAM (WNo., ,)	A	L	S	Blue
<i>Cause</i>	The machining program whose saving onto CMT has been attempted does not exist in the NC system.				
<i>Action</i>	Check if the machining program with the specified work number exists in the NC system.				
508	MEMORY CAPACITY EXCEEDED (WNo., ,)	A (G)	L (L)	S (S)	Blue (Blue)
<i>Cause</i>	<ol style="list-style-type: none"> 1. An attempt has been made to load more machining programs than the maximum number of programs that can be registered within the NC system. 2. The end-of-tape (or end-of-disk) code has been detected in the middle of saving onto the cassette tape or floppy disk. 				
<i>Action</i>	<ol style="list-style-type: none"> 1. Delete unnecessary programs, or save the programs onto an external storage and then delete them. After that, load the particular program. 2. Split the data into segments according to the particular size of the free saving area within the cassette tape or floppy disk, and then carry out the saving operations once again. 				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
509	MEMORY PROTECT (, ,)	A	L	S	Blue
<i>Cause</i>	Loading has been attempted when the PROGRAM LOCK/ENABLE switch setting was LOCK.				
<i>Action</i>	Set the switch to ENABLE, and then carry out the loading operation.				
510	DATA DO NOT MATCH (WNo., ,)	A	L	S	Blue
<i>Cause</i>	Comparison between the cassette tape or floppy disk contents and the NC memory contents has shown disparities in data size, type of file information, etc.				
<i>Action</i>	1. Locate those disparities on the PROGRAM FILE display and correct them, and then make the comparison once again. 2. If the disparities exist in data other than machining program data, check if the data is for the machine being used.				
511	PROGRAM DATA NOT SAME (WNo., UNo., SNo.)	A	L	S	Blue
<i>Cause</i>	Comparison between the cassette tape or floppy disk contents and the NC data settings has shown several disparities.				
<i>Action</i>	1. After correcting the disparities within the machining program, make the comparison once again. 2. If the disparities exist in data other than machining program data, locate those disparities on each display. Note: This alarm message may be displayed if data is saved prior to automatic operation and then subjected to comparison with that after automatic operation. This is because execution of automatic operation may cause automatic data overriding.				
512	NO EIA/ISO OPTION (WNo., ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to load an EIA/ISO program in spite of the absence of an EIA/ISO option.				
<i>Action</i>	An EIA/ISO program cannot be loaded since the system has no EIA/ISO option.				
513	PROGRAM DATA TYPE INCORRECT (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to load a machining program different in structure from the programs within the NC memory.				
<i>Action</i>	Check if the contents of the cassette tape or floppy disk are for M640M or M PLUS.				
514	DATA TYPE INCORRECT (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to load data (other than machining program data) that differs in structure from the NC memory data.				
<i>Action</i>	Check if the contents of the cassette tape or floppy disk are for M640M or for the machine being used.				
515	INCORRECT DESIGNATED DATA (, ,)	A	L	S	Blue
<i>Cause</i>	1. During I/O operation with an IC card, an attempt has been made to load data the structure of which is not correct. 2. During I/O operation with a floppy disk, an attempt has been made to load data the structure of which is not correct.				
<i>Action</i>	1. Check if the data saved during I/O operation with an IC card is for M640M. 2. Check if the data saved during I/O operation with a floppy disk is for M640M.				
516	SYSTEM ERROR (, ,)	E	L	S	Blue
<i>Cause</i>	An error has occurred within the system.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station. (At this time, also please notify them of what kind of operating procedure you had carried out before the alarm message appeared and what values were displayed in parentheses.)				

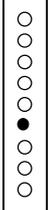
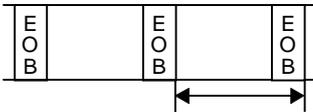
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No.	Message	Type of error	Stopped status	Clearing procedure	Display
517	PROG.OPERATION NOT ALLOWED (WNo., ,)	A	L	S	Blue
<i>Cause</i>	1. An attempt has been made to save a display inhibiting program. (Program management function) 2. An attempt has been made to save the program being edited (or the program being loaded using another I/O unit).				
<i>Action</i>	1. Check if the specified work number is for the program of display inhibition. 2. Carry out a saving operation only after completion of the program editing operation (or the program loading operation using another I/O unit).				
518	DATA OPERATION NOT ALLOWED (, ,)	A	L	S	Blue
<i>Cause</i>	1. An attempt has been made during automatic operation to load data other than machining program data. 2. An attempt has been made to save the data being loaded using another I/O unit. 3. An attempt has been made to load the data being saved using another I/O unit.				
<i>Action</i>	Wait until automatic operation has been completed (or until the loading or saving operation using another I/O unit has been completed).				
519	DATA SIZE EXCEEDED (WNo., Note,)	A	L	S	Blue
<i>Cause</i>	The EIA/ISO machining program includes a block that consists of more than 256 characters. (EOB or EOR does not appear within 256 characters.) Note: The number displayed next to the work number is a line number, which corresponds to the number displayed in the lower right section of the PROGRAM display.				
<i>Action</i>	Correct the EIA/ISO machining program. (Insert EOB within 256 characters.)				
520	EIA/ISO CONVERT ERROR (WNo., ,)	B	L	S	Blue
<i>Cause</i>	Nonconvertible sections have been found when an attempt was made to convert the MAZATROL program into an EIA/ISO program.				
<i>Action</i>	Review the MAZATROL program.				
	(, ,)				
<i>Cause</i>					
<i>Action</i>					
530	CMT MIS-CONNECTED (, ,)	G	L	S	Blue
<i>Cause</i>	This message implies incorrect cable connection between CMT (cassette magnetic tape unit) or microdisk unit and the NC system, or implies a power-off status or an incorrect baud-rate setting. In the case of microdisk unit, this message also implies incorrect setting of a floppy disk.				
<i>Action</i>	1. Check for correct cable connections. 2. Check if power is turned on. 3. Check for correct baud-rate setting. (Parameter for the NC system: Baud rate) 4. For microdisk unit, check if the floppy disk is correctly set.				
531	DESIGNATED FILE NOT FOUND (WNo., ,)	A	L	S	Blue
<i>Cause</i>	The machining program or another data that has been designated for the LOAD or COMPARE operation does not exist within the cassette tape or floppy disk.				
<i>Action</i>	Carry out a DIRECTORY operation to check what type of data is stored on the cassette tape or floppy disk.				
532	CMT NOT CONNECTED (, ,)	A	L	S	Blue
<i>Cause</i>	A cassette tape or floppy disk drive has not been mounted.				
<i>Action</i>	Correctly mount a cassette tape or floppy disk drive.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
533	NO OPERABLE DATA IN CMT (, ,)	A	L	S	Blue
<i>Cause</i>	The current M PLUS-use cassette tape or floppy disk does not contain a saved machining program (only machining programs can be loaded from M PLUS-use cassette tapes or floppy disks).				
<i>Action</i>	The cassette tape or floppy disk that has been registered for M PLUS use, does not contain a registered machining program. Perform checks using the M-32 or M PLUS.				
534	CMT I/O ERROR (, ,)	G	L	S	Blue
<i>Cause</i>	A hardware error has occurred in the CMT or microdisk unit.				
<i>Action</i>	Check the CMT or microdisk unit baudrate setting (RS-232C setting parameter), and replace the cassette tape or floppy disk.				
535	CMT WRITE PROTECT (, ,)	A	L	S	Blue
<i>Cause</i>	Data saving onto a write-protected cassette tape or floppy disk has been attempted.				
<i>Action</i>	The cassette tape or floppy disk is protected against data writing. Release the write-protected state. (For cassette tape, fill in the hole on the tape surface with tape.)				
536	POWER OFF DURING CMT OPERATION (, ,)	A	L	S	Blue
<i>Cause</i>	Power has been turned off during operation of the CMT or microdisk unit.				
<i>Action</i>	Check the machining program being transferred. If an anomaly is found, repeat the desired operation. If this alarm state has occurred during loading of a machining program, erase the loaded portion of the program and then execute the loading again.				
537	CMT MALFUNCTION (, ,)	G	L	S	Blue
<i>Cause</i>	Data cannot be read because of the presence of check sum errors, for example, within the cassette tape or floppy disk contents.				
<i>Action</i>	Reread the data only after setting a new cassette tape or floppy disk or after saving the corresponding data.				
538	— (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				
539	— (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				
540	TAPE READER MIS-CONNECTED (, ,)	G	L	S	Blue
<i>Cause</i>	This message implies incorrect cable connection between tape reader or microdisk unit and the NC system or implies a power-off state. In the case of microdisk unit, this message also implies incorrect setting of a floppy disk.				
<i>Action</i>	<ol style="list-style-type: none"> 1. Check for correct cable connections. 2. Check if power is turned on. 3. In the case of microdisk unit, check if the floppy disk is correctly set. 				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
541	TAPE PUNCHER MIS-CONNECTED (, ,)	G	L	S	Blue
<i>Cause</i>	This message implies incorrect cable connection between tape puncher or microdisk unit and the NC system or implies a power-off state. In the case of microdisk unit, this message also implies incorrect setting of a floppy disk.				
<i>Action</i>	<ol style="list-style-type: none"> 1. Check for correct cable connections. 2. Check if power is turned on. 3. In the case of microdisk unit, check if the floppy disk is correctly set. 				
542	NO TAPE READER PUNCHER OPTION (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to carry out a tape I/O operation although the tape reader/puncher option is not provided.				
<i>Action</i>	Provide the NC system with a tape reader/puncher option. (Only with this option, tape I/O operations can be carried out.)				
543	WNo. NOT FOUND ON PAPER TAPE (, ,)	A	L	S	Blue
<i>Cause</i>	Loading or comparing is not possible since no O numbers (work numbers) are stored on the paper tape or floppy disk.				
<i>Action</i>	Call the DATA I/O display (TAPE) and designate a work number(s).				
544	SET NEW PAPER TAPE (, ,)	A	L	S	Blue
<i>Cause</i>	<ol style="list-style-type: none"> 1. The tape reader/puncher is not correctly loaded with paper tape. 2. Differences in baud-rate or other parameter settings for RS-232C exist between the tape reader/puncher (or microdisk unit) and the NC system. 				
<i>Action</i>	<ol style="list-style-type: none"> 1. Check if the tape reader/puncher is correctly loaded with paper tape. 2. Check for differences in RS-232C parameter settings between the I/O unit and the NC system. 				
545	POWER OFF TAPE READ/PUNCH OPER. (, ,)	A	L	S	Blue
<i>Cause</i>	Power has been turned off during operation of the tape reader/puncher or microdisk unit.				
<i>Action</i>	If power has been turned off during loading, check the machining program loaded. If an error(s) is found, delete the loaded data and then reload the program. If power has been turned off during punching, repunch the tape.				
546	TAPE READER ERROR (, ,)	G	L	S	Blue
<i>Cause</i>	A hardware error has occurred in the tape reader or the microdisk unit.				
<i>Action</i>	Before operating the tape reader or microdisk unit, check that no differences in RS-232C parameter settings exist between the tape reader or microdisk unit and the NC system and replace the paper tape or floppy disk.				
547	TAPE PUNCHER ERROR (, ,)	G	L	S	Blue
<i>Cause</i>	A hardware error has occurred in the tape puncher or the microdisk unit.				
<i>Action</i>	Before operating the tape puncher or microdisk unit, check that no differences in RS-232C parameter settings exist between the tape puncher or microdisk unit and the NC system and replace the paper tape or floppy disk.				
548	MAZATROL PROGRAM DESIGNATED (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to punch a MAZATROL program onto paper tape.				
<i>Action</i>	Designate an EIA/ISO program. (Only EIA/ISO programs can be punched on paper tape.)				
549	DESIGNATED DATA NOT FOUND (, ,)	A	L	S	Blue
<i>Cause</i>	The designated data was not found on the paper tape or floppy disk.				
<i>Action</i>	Select another set of data or make a search once again from the beginning of the paper tape or floppy disk.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
550	PARITY H ERROR (, ,)	A	L	S	Blue
Cause	 <p>The contents of the paper tape or floppy disk cannot be read since they include a parity-H error(s). (The number of holes on tape must always be even for ISO; it must be odd for EIA).</p>				
Action	Reading must be carried out only after replacing the paper tape or floppy disk or after repunching the program.				
551	PARITY V ERROR (, ,)	A	L	S	Blue
Cause	<p>The contents of the paper tape or floppy disk cannot be read since they include a parity-V error(s).</p>  <p>The number of sprocket holes in this area must be even.</p>				
Action	Make reading possible by making bit 1 of parity V-check valid/invalid parameter TAP25 invalid.				
552	PROGRAM END NOT FOUND (, ,)	A	L	S	Blue
Cause	<p>A machining program in which EOR precedes the end M code (M02, M30 or M99) or the next O number (work number) was loaded.</p> <p>The end-of-program condition can be changed by varying the settings of the parameter (TAP27).</p>				
Action	Since the machining program has already been loaded, the PROGRAM display must be called and then one of the above three end M codes must be inserted in the program.				
553	WORK No. UNITS EXCEEDED (, ,)	B	L	S	Blue
Cause	An attempt has been made to load the program of a work number of more than four digits in spite of the fact that the maximum allowable number of digits in one work number is set to four.				
Action	Check bit 3 of parameter TAP26 .				
554	POWER OFF IN EIA/ISO CONVERT (, ,)	A	L	S	Blue
Cause	Power has been turned off during EIA/ISO conversion.				
Action	Check the EIA/ISO program being converted. If an anomaly is found, erase the program and repeat the conversion.				
	(, ,)				
Cause					
Action					
557	DESIGNATED DIRECTORY NOT FOUND (, ,)	B (A)	I (L)	O (S)	Red (Blue)
Cause	The designated directory does not exist.				
Action	Check if the designated directory exists.				

5 ALARM LIST

No.	Message	Type of error	Stopped status	Clearing procedure	Display
	(, ,)				
<i>Cause</i>					
<i>Action</i>					
560	PRINTER MIS-CONNECTED (, ,)	G	L	S	Blue
<i>Cause</i>	This message implies incorrect cable connection between the printer and NC system or implies a power-off status.				
<i>Action</i>	<ol style="list-style-type: none"> 1. Check if the printer cables are correctly connected. 2. Check if printer power is turned on. 				
561	SET NEW PAPER (, ,)		L	S	Blue
<i>Cause</i>	Output onto the printer was attempted when it was not loaded with paper or when it was not in a READY status.				
<i>Action</i>	<ol style="list-style-type: none"> 1. Load the printer with paper. 2. Set the printer ready for operation. 				
562	NO PRINTER OPTION (, ,)	G	L	S	Blue
<i>Cause</i>	Printer operation was attempted although the printer option is not provided.				
<i>Action</i>	Provide the NC system with a printer option. (Only with this option, printer operation can be carried out.)				
563	PRINTER I/O ERROR (, ,)	G	L	S	Blue
<i>Cause</i>	<ul style="list-style-type: none"> - A hardware error has occurred on the printer. - The baud-rate or other RS-232C parameter settings differ between the printer and the NC system. 				
<i>Action</i>	Check for differences in the above settings between the printer and NC system.				
564	— (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				
565	ID MIS-CONNECTED (, ,)	G	L	S	Blue
<i>Cause</i>	Erroneous cable connection has occurred during connection of the ID unit and the NC system, or power has remained turned off.				
<i>Action</i>	Check for incorrect cable connections. Or check if the power is turned on.				
566	POWER STOPPED DURING ID OPER. (, ,)	A	L	S	Blue
<i>Cause</i>	Power has been turned off during the operation of the ID unit.				
<i>Action</i>	Check the current tool data, and if errors are found, operate the unit once again.				
567	ID I/O ERROR (, ,)	G	L	S	Blue
<i>Cause</i>	Communication between the NC system and the ID unit has become interrupted because of hardware trouble (such as line noise).				
<i>Action</i>	Please contact YAMAZAKI MAZAK products service station.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
	(, ,)				
<i>Cause</i>					
<i>Action</i>					
570	NO DNC OPTION (, ,)	A	L	S	Blue
<i>Cause</i>	DNC operation was attempted although DNC option is not provided.				
<i>Action</i>	Provide the NC system with a DNC option. (Only with this option, DNC operation can be carried out.)				
571	ILLEGAL FORMAT (, ,)	A	L	S	Blue
<i>Cause</i>	Data other than M640M or M PLUS use data has been transmitted from the host system. (The format of the transmitted data is not correct.)				
<i>Action</i>	Check if the transmitted data from the host system is M640M or M PLUS use data.				
572	CANNOT LOAD (PROG SIZE EXCEED) (WNo., ,)	A	L	S	Blue
<i>Cause</i>	The contents of the transmitted machining program from the host system are not correct. (More than 250 lines of MAZATROL program data have been transmitted.)				
<i>Action</i>	Check the size of the program which has been transmitted from the host system.				
573	CANNOT LOAD (TOO MANY PROGRAMS) (WNo., ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to load more machining programs than the maximum number of programs that can be registered within the NC system.				
<i>Action</i>	Delete unnecessary programs, or save the programs onto an external storage and then delete them. After that, load the particular program.				
574	CANNOT LOAD (AUTO OPERATION) (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made during automatic operation to load data other than machining program data.				
<i>Action</i>	Load such data only after completion of automatic operation.				
575	CANNOT LOAD (MISMATCH) (, ,)	A	L	S	Blue
<i>Cause</i>	Loading has been attempted when the transmitted data from the host system does not match to the data or other parameter settings within the NC system (mismatching in data size, etc.).				
<i>Action</i>	Check if the data that has been transmitted from the host system is that which is to be used for the machine being used.				
576	SAME PROGRAM No. DESIGNATED (WNo., ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to load the machining program that has the same work number as that of a machining program registered within the NC system.				
<i>Action</i>	Check for an overlapping work number. This alarm message also implies that the parameter (DNC26 , bit 2) is set for the priority of the old program over a new one. If the parameter is set to 0, the old data will automatically be deleted in such a case as mentioned above and the new program data can be loaded with the specified work number.				

5 ALARM LIST

No.	Message	Type of error	Stopped status	Clearing procedure	Display
577	NO DESIGNATED PROGRAM (WNo., ,)	A	L	S	Blue
<i>Cause</i>	<ul style="list-style-type: none"> - The machining program whose transmission from the NC system to the host system has been attempted does not exist within the NC system. - The machining program that has been designated using a control command (work number search or program deletion) does not exist within the NC system. 				
<i>Action</i>	Check if the machining program with the specified work number exists in the NC system.				
578	MEMORY CAPACITY EXCEEDED (WNo., ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to load more machining programs than the maximum number of programs that can be registered within the NC system.				
<i>Action</i>	Delete unnecessary programs, or save the programs onto an external storage and then delete them. After that, load the particular program.				
579	MEMORY PROTECT (, ,)	A	L	S	Blue
<i>Cause</i>	Loading has been attempted when the PROGRAM LOCK/ENABLE switch setting was LOCK.				
<i>Action</i>	Set the switch to ENABLE, and then carry out the loading operation. This alarm message also implies that the setting of the parameter (DNC26, bit 3) is OFF (0). Change this parameter setting to ON (1). Data loading will then become possible.				
580	CARD NOT READY (, ,)	A	L	S	Blue
<i>Cause</i>	A memory card has not been correctly mounted in the NC system.				
<i>Action</i>	Check if the memory card is correctly mounted.				
581	FLOPPY NOT READY (, ,)	A	L	S	Blue
<i>Cause</i>	A floppy disk has not been correctly mounted in the floppy disk drive.				
<i>Action</i>	Correctly mount a floppy disk in the floppy disk drive.				
582	DESIGNATED FILE NOT TRANSFERED (, ,)	A	L	S	Blue
<i>Cause</i>	A file different from the one that has been requested from NC system to the host system was transferred from the latter.				
<i>Action</i>	Check the details of the file that has been transferred from the host system.				
583	PROGRAM DATA TYPE INCORRECT (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to load a machining program that is different in structure from those stored within the NC system.				
<i>Action</i>	<ul style="list-style-type: none"> - Check if the program that has been transferred from the host system is for use with M640M or M PLUS. - Check if the contents of the file transfer message (header block) are correct. 				
584	RECEIVED DATA TYPE INCORRECT (, ,)	A	L	S	Blue
<i>Cause</i>	<ul style="list-style-type: none"> - An attempt has been made to load data other than machining program data and also different in structure from the data stored within the NC system. - The contents of the header block or data block in the file transfer message (including machining programs) are not correct. 				
<i>Action</i>	<ul style="list-style-type: none"> - Check if the data that has been transferred from the host system is for use with M640M or for use with the machining being operated. - Check the contents of the header block (version number, etc.) or data block (sequence number, etc.) in the file transfer message. 				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
585	CABLE MIS-CONNECTED (, ,)	G	L	S	Blue
Cause	This message implies incorrect cable connection between the host system and the NC system or implies a power-off status.				
Action	<ul style="list-style-type: none"> - Check if the DNC cables are correctly connected. - Check if the host system is turned on and ready for data transmission/reception. There may be cases that although a DNC option is provided, DNC itself is not to be used for the time being and thus the DNC cables are not yet connected. If this is the case, then set the appropriate parameter (DNC26 , bit 1) to OFF (0). This will clear the alarm display.				
586	SYSTEM ERROR (, ,)	E	L	S	Blue
Cause	An error has occurred within the system.				
Action	Please contact your YAMAZAKI MAZAK products service station. (At this time, also please notify them of what kind of operating procedure you had carried out before the alarm message appeared and what values were displayed in parentheses.)				
587	PROG.OPERATION NOT ALLOWED (WNo., ,)	A	L	S	Blue
Cause	<ol style="list-style-type: none"> 1. An attempt has been made to transmit a display inhibiting program to the host system. (Program management function) 2. An attempt has been made to transmit to the host system the program being edited (or the program being loaded using another I/O unit). 				
Action	<ol style="list-style-type: none"> 1. Check if the specified work number is for the program of display inhibition. 2. Carry out the transfer operation only after completion of the program editing (or program loading using another I/O unit). 				
588	DATA OPERATION NOT ALLOWED (, ,)	A	L	S	Blue
Cause	<ul style="list-style-type: none"> - An attempt has been made during automatic operation to load data other than machining program data. - An attempt has been made to transmit to the host system the data being loaded using another I/O unit. - An attempt has been made to load the data being saved using another I/O unit. 				
Action	Wait until automatic operation has been completed (or until the loading or saving operation using another I/O unit has been completed).				
589	DATA SIZE EXCEEDED (WNo., Note ,)	A	L	S	Blue
Cause	The EIA/ISO machining program includes a block that consists of more than 256 characters. (EOB or EOR is not present within 256 characters.) Note: The number displayed next to the work number is a line number, which corresponds to the number displayed in the lower right section of the PROGRAM display.				
Action	Correct the machining program. (Insert EOB within 256 characters.)				
590	DNC COMMAND IMPOSSIBLE (, ,)	A	L	S	Blue
Cause	The particular status of the NC system disables execution of the control command that has been requested from the host system. <ul style="list-style-type: none"> - A request for work number search has been made during automatic operation. - During automatic operation, a request for deleting the machining program being used for the automatic operation has been made. 				
Action	Wait until the NC system becomes ready for processing or until the automatic operation is completed, and then make the request once again.				
591	NO OPTION (WNo., ,)	A	L	S	Blue
Cause	An attempt has been made to load (save) the data not supported by the current option of the DNC unit.				
Action	Only data supported by the option can be processed.				

5 ALARM LIST

No.	Message	Type of error	Stopped status	Clearing procedure	Display
592	ILLEGAL COMMAND RECEIVED (, ,)	A	L	S	Blue
<i>Cause</i>	<ul style="list-style-type: none"> - The control command or file transfer command that has been requested from the host system is a nonexistent command. - The machine number that has been designated for the loading of data other than machining program data does not agree with any of the machine numbers within the NC system. 				
<i>Action</i>	<ul style="list-style-type: none"> - Check the details of the command message that has been sent from the host system. - Check if the machine number is the same as that registered within the NC system (parameter DNC19). 				
593	DNC I/O ERROR (, ,)	G	L	S	Blue
<i>Cause</i>	<ul style="list-style-type: none"> - During use of DNC, processing has been aborted by line noise or other hardware factors. - RS-232C communication parameter settings (such as those of the baud-rate, etc.) between the host system and NC system differ. - Timer, number-of-retries or other settings are not correct. 				
<i>Action</i>	<ul style="list-style-type: none"> - Make line checks and hardware checks of the host and NC systems. - Match the RS-232C communication parameter settings between the host system and NC system. - Set the timer, number-of-retries, or other settings to those of the host system. (Parameters for the NC system: DNC parameters) 				
594	SEND-RECEIVE ERROR (, ,)	G	L	S	Blue
<i>Cause</i>	<ul style="list-style-type: none"> - The preset number of retries has been exceeded during transmission/reception of command messages. - RS-232C communication parameter settings (such as those of the baud-rate, etc.) between the host system and NC system differ. - Timer, number-of-retries or other settings are not correct. 				
<i>Action</i>	<ul style="list-style-type: none"> - Make line checks and message checks of the host systems. - Match the RS-232C communication parameter settings between the host system and NC system. - Set the timer, number-of-retries or other settings to those of the host system. (Parameters for the NC system: DNC parameters) 				
595	FILE TRANSFER ERROR (, ,)	G	L	S	Blue
<i>Cause</i>	<ul style="list-style-type: none"> - The preset number of retries has been exceeded during transmission/reception of the messages. - RS-232C communication parameter settings (such as those of the baud-rate, etc.) between the host system and NC system differ. - Timer, number-of-retries or other settings are not correct. 				
<i>Action</i>	<ul style="list-style-type: none"> - Make line checks and message checks of the host systems. - Match the RS-232C communication parameter settings between the host system and NC system. - Set the timer, number-of-retries or other settings to those of the host system. (Parameters for the NC system: DNC parameters) 				
596	DNC MALFUNCTION (, ,)	G	L	S	Blue
<i>Cause</i>	An irretrievable hardware error has occurred during reception of the first message (ENQ) from the host system.				
<i>Action</i>	After making hardware checks of the NC and host systems and line checks, turn the NC system power back on and then restart the receiving operation.				
597	POWER OFF DURING DNC OPERATION (, ,)	A	L	S	Blue
<i>Cause</i>	Power has been turned off during DNC operation.				
<i>Action</i>	Check for errors in the machining program being used, and if errors are found, carry out the DNC operation once again. Note, however, that if the machining program is being loaded, then loading must be carried out once again after erasing the loaded contents of the program.				
598	NO EIA/ISO OPTION (, ,)	A	L	S	Blue
<i>Cause</i>	An attempt has been made to transfer EIA/ISO program although the NC system is not provided with an EIA/ISO option.				
<i>Action</i>	Without an EIA/ISO option, EIA/ISO program processing is not possible.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
599	DESIGNATED DATA NOT FOUND (, ,)	A	L	S	Blue
<i>Cause</i>	The host system has issued a request for transmission/reception of data not existing within the NC system. - A drum-tool data transfer request has been issued to the NC system though it is not provided with a drum. - A request for transfer of a larger volume of data than the control data stored within the NC system has been made.				
<i>Action</i>	Check the contents of the command messages that have been sent from the host system.				

5 ALARM LIST

No.	Message	Type of error	Stopped status	Clearing procedure	Display
600	— (, ,)				
Cause	—				
Action	—				
601	SYSTEM ERROR (, ,)	E	I (L)	O (S)	Red (Blue)
Cause	A processing error has occurred within the NC system.				
Action	Using data I/O operation (CMT), save the program data, tool data, tool file data, parameters, etc. that are currently being used. After that, please contact your YAMAZAKI MAZAK products service station.				
602	PROG. OPERATION NOT ALLOWED (, ,)	B	I (L)	O (S)	Red (Blue)
Cause	An attempt has been made to start the program being transferred.				
Action	After the transfer operation is completed, start the program.				
603	NO DESIGNATED PROGRAM (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
Cause	<ul style="list-style-type: none"> - The program having the work number that has been set in the subprogram unit does not exist within the memory. - No work number has been set in the subprogram unit. - The work number that has been designated as the restart position does not exist within the memory. 				
Action	Review the machining programs to see if the designated program exists.				
604	NO PITCH IN MULTI WORKPIECES (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
Cause	<ul style="list-style-type: none"> - Pitch X is not yet set in spite of the fact that multi-piece machining in the direction of the X-axis is to take place. - Pitch Y is not yet set in spite of the fact that multi-piece machining in the direction of the Y-axis is to take place. 				
Action	Review the particular machining program and then set an appropriate multi-piece machining pitch in the common unit.				
605	NO TOOL DATA IN PROGRAM (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
Cause	The point-, line- or face-machining (including 3-D) unit does not contain any tool sequences.				
Action	Review the particular machining program to see if there are units that do not contain necessary tool sequences.				
606	NO FIGURE IN PROGRAM (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
Cause	The point-, line- or face-machining (including 3-D) unit does not have any shape data.				
Action	Review the particular machining program to see if there are units that do not contain necessary shape data.				
607	MISSING INPUT DATA (POINT) (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
Cause	A point-machining unit lacks data.				
Action	Review the particular machining program, and set data if a point-machining unit lacks data.				
608	MISSING INPUT DATA (LINE) (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
Cause	A line-machining unit lacks data.				
Action	Review the particular machining program, and set data if a line-machining unit lacks data.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
609	MISSING INPUT DATA (FACE) (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A face-machining unit lacks data.				
<i>Action</i>	Review the particular machining program, and set data if a face-machining unit lacks data.				
610	MISSING TOOL DATA FOR POINT (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A point-machining tool sequence lacks data.				
<i>Action</i>	Review the particular machining program, and set data if a point-machining tool sequence lacks data.				
611	MISSING TOOL DATA FOR LINE (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A line-machining tool sequence lacks data.				
<i>Action</i>	Review the particular machining program, and set data if a line-machining tool sequence lacks data.				
612	MISSING TOOL DATA FOR FACE (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A face-machining (including 3-D) tool sequence lacks data.				
<i>Action</i>	Review the particular machining program, and set data if a face-machining tool sequence lacks data.				
613	DATA MISSING IN WPC UNIT (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The WPC unit lacks data.				
<i>Action</i>	Review the particular machining program, and set data if the WPC unit lacks data.				
614	SUB PROGRAM NESTING EXCEEDED (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The maximum permissible number of repeats of MAZATROL program nesting has been exceeded nine.				
<i>Action</i>	Review and correct the particular machining program so that the total number of repeats of nesting does not exceed nine.				
615	DATA MISSING IN OFFSET UNIT (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The offset unit lacks data.				
<i>Action</i>	Review the particular machining program, and set data if the offset unit lacks data.				
616	DATA ERROR IN M CODE UNIT (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The M code unit contains no data.				
<i>Action</i>	Review the particular machining program, and input data to the M code unit.				
617	EXECUTION IMPOSSIBLE (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The data processing operation cannot be performed because of contradiction in data. This condition occurs if an attempt is made to start automatic operation when the specified work number is an unregistered number.				
<i>Action</i>	Search out the contradictory data making reference to WNo., UNo., SNo. (which are displayed together with the alarm message), and then correct the data.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
618	POINT CUTTING PARAMETER ERROR (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
Cause	The point-machining parameter setting(s) is out of its permissible range.				
Action					
619	LINE/FACE CUTTING PAR. ERROR (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
Cause	The line- or face-machining parameter settings are out of their permissible ranges.				
Action	The parameter E13 is set to "0"; change it to a value other than "0".				
620	CUTTING SPEED ZERO (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
Cause	Of tool sequence data (except for chip removal), the circumferential speed (C-SP) is unset or set to "0".				
Action	Review the machining program and set the desired circumferential speed (C-SP).				
621	FEEDRATE ZERO (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
Cause	Of tool sequence data (except for chip removal), the feedrate (FR) is unset or set to "0".				
Action	Review the machining program and set the desired feedrate (FR).				
622	DESIGNATED UNIT NOT FOUND (, ,)	B	I (L)	O (S)	Red (Blue)
Cause	The unit that has been designated as the restart position is not present in the program with the specified work number.				
Action	Review the machining program and designate the correct unit number.				
623	DESIGNATED SNo. NOT FOUND (, ,)	B	I (L)	O (S)	Red (Blue)
Cause	The tool sequence that has been designated as the restart position is not present in the unit of the specified work number; two or more lines of tool sequence data are present in the line-machining chamfering unit.				
Action	Review the machining program and designate the correct tool sequence number.				
624	RESTART IMPOSSIBLE (, ,)	B	I (L)	O (S)	Red (Blue)
Cause	<ul style="list-style-type: none"> - The unit that has been designated as the restart position is the end unit. - The designated number of times of reappearance (L) is too large and the corresponding restart position is not present. - The restart data is incomplete. 				
Action	Check the contents of the restart data or the program.				
625	ENDMILL DIAMETER EXCEEDED (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
Cause	<ul style="list-style-type: none"> - The value of "(groove width) – (finish allowance R) × 2" of the endmill groove unit is smaller than the "tool diameter" value of the rough-machining tool. - The "groove width" value of the endmill groove unit is smaller than the "tool diameter" value of the finishing tool. 				
Action					
626	NO TOOL IN MAGAZINE (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
Cause	The tool(s) specified in the program is not registered in the tool data.				
Action	Carry out a tool layout operation and register the necessary tool(s) on the TOOL DATA display.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
627	TOOL DATA INPUT PROCESS ERROR (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The data of the tool length or tool diameter is not yet input on the TOOL DATA display.				
<i>Action</i>	Review the tool data and input the tool length or tool diameter.				
628	NO ASSIGNED TOOL IN TOOL FILE (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The tool specified in the program is not registered on the TOOL FILE display.				
<i>Action</i>	Register the tool data that is to be used in the program into the tool file.				
629	TOOL FILE INPUT PROCESS ERROR (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The tool file lacks of data.				
<i>Action</i>	Review the data on the TOOL FILE display and fill in any empty items with data.				
630	Z DEPTH OF CUT TOO LARGE (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Of the line- or face-machining tool sequence data, the value of the Z depth of cut is in excess of the depth of cut on the TOOL FILE display.				
<i>Action</i>	Review the machining program and correct the value of the Z depth of cut.				
631	STOCK REMOVAL R TOO LARGE (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The value of "(removal allowance R) – (finish allowance R)" in the line-machining unit is larger than the value of the tool diameter of the rough-cutting tool. The value of removal allowance R in the line-machining unit is larger than the value of the tool diameter of the finishing tool.				
<i>Action</i>	Review the machining program and correct the values of removal allowance R and finishing allowance R in the line-machining unit.				
632	RADIAL DEPTH OF CUT ZERO (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Of line- or face-machining tool sequence data, the radial depth of cut is set to zero or smaller.				
<i>Action</i>	Review the machining program and set the radial depth of cut to the correct value.				
633	Z DEPTH OF CUT ZERO (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Of line- or face-machining tool sequence data, the Z depth of cut is set to zero or smaller.				
<i>Action</i>	Review the machining program and set the Z depth of cut to the correct value.				
634	FINISH DEPTH OF CUT ZERO (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The finish allowance value in the line- or face-machining unit is set to zero in spite of the fact that a finishing tool is registered.				
<i>Action</i>	Review the machining program and set data in the finish allowance data item.				
635	TOOL DIAMETER ZERO (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Of tool data, the tool diameter setting is zero.				
<i>Action</i>	Review the data on the TOOL DATA display and set data in the tool diameter item.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
636	STOCK REMOVAL Z TOO SMALL (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	In the line- or face-machining unit, removal allowance Z is smaller than finish allowance Z.				
<i>Action</i>	Review the line- or face-machining unit and increase removal allowance Z to a value greater than that of finish allowance Z.				
637	STOCK REMOVAL R TOO SMALL (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	In the line- or face-machining unit, removal allowance R is smaller than finish allowance R.				
<i>Action</i>	Review the line- or face-machining unit and increase the value of removal allowance R to a value greater than that of finish allowance R.				
638	R DEPTH OF CUT TOO LARGE (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Of the face-machining tool sequence data, the setting of the radial depth of cut is smaller than the tool diameter setting on the TOOL DATA display.				
<i>Action</i>	Review the machining program and increase the radial depth of cut to a value greater than the tool diameter setting in the tool data.				
639	DESIGNATED PALLET NOT FOUND (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The pallet number that has been set in the pallet changing unit is larger than the maximum allowable number of pallets set in the parameter L46 .				
<i>Action</i>	Review the machining program and set an allowable pallet number.				
640	ILLEGAL INDEX ANGLE INPUT (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The data that has been set in the angle item of the indexing unit is that which cannot be divided by the parameter L37 setting (minimum allowable angle of index).				
<i>Action</i>	Review the machining program and set an allowable angle of index.				
641	MISSING INPUT DATA (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The pallet changing unit or the indexing unit lacks of unit data. Initial point Z is not yet set in the common unit.				
<i>Action</i>	Review the machining program and set all the necessary values in the unit.				
642	ILLEGAL NEXT PALLET No. INPUT (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The same pallet number as the current pallet number has been set as the next one.				
<i>Action</i>	Review the machining program and make sure of the pallet numbers.				
643	DATA ERROR IN MAN. PROG. UNIT (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The manual program mode unit contains a sequence that has no data.				
<i>Action</i>	Review the machining program, and fill in any incomplete sequence with data or erase such sequences.				
644	NOMINAL DIAMETER NOT FOUND (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The nominal diameter item of the tool sequence data is not complete. The nominal diameter item of the MMS unit or the manual program mode unit (when a tool is set) is not complete.				
<i>Action</i>	Review the machining program, and set data in the nominal diameter item of the MMS unit or the manual program mode unit (when a tool is set) or erase the corresponding portion.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
645	PRIORITY No. OVERLAP (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The same priority number is assigned to different tools.				
<i>Action</i>	Within one process, the same priority number must not be assigned to different tools. Change the priority number.				
646	ILLEGAL PRIORITY NUMBER (WNo.,UNo.,SNo.)* (LNo. 1, LNo. 2,)**	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The priority numbering order within a unit is not correct. * During setting the priority numbers on the PROGRAM display. ** During setting the priority numbers on the PROGRAM LAYOUT display - data in the layout lines LNo. 1 and LNo. 2 are not correct.				
<i>Action</i>	The machining order within one unit has been reversed by the incorrect priority numbering. Change the priority numbers.				
647	END UNIT NOT FOUND (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The end unit is not present in the program.				
<i>Action</i>	Review the machining program and set the end unit at the end of the program.				
648	MULTI OFFSET DATA TOO LARGE (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	More than 10 sets of offset data have been input for multi-piece machining.				
<i>Action</i>	The machining program is in an abnormal state. If the program is already saved onto CMT, microdisk or other media, erase the program and then reload it. If the program is not yet saved, make corrections with the editing function and fully scan for more data errors.				
649	MMS SEQUENCE INCOMPLETE (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The MMS sequence lacks of data.				
<i>Action</i>	Review the machining program, and input data to the MMS sequence to make it complete.				
650	CHAMFERING IMPOSSIBLE (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Cutting is impossible because the chamfering cutter is likely to come into contact with the wall or bottom of the workpiece during chamfering. The data of the specified chamfering cutter on the TOOL DATA or TOOL FILE display is not appropriate.				
<i>Action</i>	Review the machining program or the tool file, and correct inappropriate data.				
651	GEAR PARAMETER ERROR (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An attempt has been made to execute the point-, line- or face-machining MAZATROL program when the setting of parameter L28 was "5" or more.				
<i>Action</i>	Change the setting of parameter L28 to a value between 0 and 4.				
<i>Action</i>	Change the corresponding code(s) to an available one(s). 2-gear { H : M39 L : M38 3-gear { H : M39 M : M38 L : M37 4-gear { H : M39 MH : M38 ML : M37 L : M36				

5 ALARM LIST

No.	Message	Type of error	Stopped status	Clearing procedure	Display
653	ILLEGAL TOOL DESIGNATED (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Tools that cannot be used have been designated.				
<i>Action</i>	Review the machining program and designate tools that are usable.				
654	TOOL DATA ERROR (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The tool length and tool diameter settings on the TOOL DATA display are negative.				
<i>Action</i>	Set positive tool length and tool diameter values.				
655	PROGRAM DATA CORRUPT (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The program is destroyed.				
<i>Action</i>	Erase a part of the program and then re-create the destroyed part; or erase the entire program and then carry out a loading operation using the data I/O operation (CMT) or other functions once again.				
656	MMS SEQUENCE DATA NOT FOUND (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The MMS units include one that has no sequence data.				
<i>Action</i>	Create one or more lines of sequence data in the corresponding MMS unit, or erase the unit.				
657	ILLEGAL NUMBER INPUT (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The program contains incorrect data.				
<i>Action</i>	Review the machining program and make data corrections.				
658	INITIAL Z < MATERIAL DEPTH (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The setting of the material height in the 3-D machining unit is greater than that of initial point Z in the common unit.				
<i>Action</i>	Change the program to give a material height value smaller than the initial point Z value.				
659	NO TOOL PATH CHECK (I/O BUSY) (WNo., ,)	A	L	S	Blue
<i>Cause</i>	The tool path check cannot be performed since I/O operation (loading) is in progress.				
<i>Action</i>	Make the tool path check after the I/O operation has been completed.				
660	CANNOT MOVE DESIGNATED AXIS (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The Y-axis or Z-axis of the index position has been appointed using the indexing unit when the parameter L41 is set to "2".				
<i>Action</i>	Using the data cancellation key, erase the Y-axis or Z-axis data of the index position.				
661	ILLEGAL M CODE (WNo.,UNo.,SNo.)				
<i>Cause</i>	M195 (tool breakage detection start command code) has been set for the M code unit or for the manual program mode sequence.				
<i>Action</i>	M195 cannot be executed on MAZATROL programs. Delete that command code from the program.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
662	NO INCLINED PLANE OPTION (WNo., UNo.,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An attempt has been made to execute the inclined-plane machining program in the absence of an inclined-plane machining option.				
<i>Action</i>	Inclined-plane machining is not possible because of the absence of an inclined-plane machining option. <HV>				
663	WRONG HEAD ANGLE (WNo., UNo.,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	<ol style="list-style-type: none"> 1. A corner-face unit or plane inclination measurement has been designated in process data other than inclined-plane machining process data. 2. Table rotational machining has been designated in spite of the fact that the facial angle data in the face definition sequence is not for the top plane. 3. Calibration measurement has been designated for the top plane or an inclined plane. 4. Groove center, hole center, boss center, and step width measurements have been designated for an inclined plane. 				
<i>Action</i>	<ol style="list-style-type: none"> 1. A corner-face unit and plane inclination measurement can be designated only for an inclined plane. 2. Table rotational machining can be executed only for the top plane. 3. Calibration measurement is possible only for the side. 4. Only reference plane measurement and plane inclination measurement are possible for inclined planes. <HV>				
664	3-D UNIT NOT FOUND IN PROGRAM (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A 3-D machining unit has been set in the program in spite of the fact that 3-D machining option is not provided.				
<i>Action</i>	Erase the 3-D machining unit from the machining program.				
665	ILLEGAL DATA IN 3-D UNIT (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The 3-D machining unit lacks of unit data.				
<i>Action</i>	Review the machining program and set necessary data in the 3-D machining unit.				
666	PLANE DATA NOT FOUND IN PROGRAM (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The 3-D machining unit lacks of plane definition data.				
<i>Action</i>	Review the machining program and set plane definition data in the 3-D machining unit.				
667	CHECK SURFACE DATA NOT FOUND (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The 3-D machining unit lacks of check surface data.				
<i>Action</i>	Review the machining program and set check surface data in the 3-D machining unit.				
668	ILLEGAL PLANE DATA IN PROGRAM (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The plane definition data in the 3-D machining unit is not complete.				
<i>Action</i>	Review the machining program and set data in the plane definition data item.				
669	ILLEGAL TOLERANCE DATA INPUT (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The value of the tolerance parameter that has been designated in the tool sequence is "0"				
<i>Action</i>	Check the parameters E67 through E75 , and set a value other than "0" in the parameter whose setting is "0".				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
670	ILLEGAL SEQUENCE DATA IN PRG. (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The tool sequence in the 3-D machining unit lacks of data.				
<i>Action</i>	Review the machining program and input data to the tool sequence.				
671	ILLEGAL MOVE SURFACE DATA (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The coordinate conversion data in the 3-D machining unit is not complete.				
<i>Action</i>	Review the machining program and make the coordinate conversion data complete.				
672	ILLEGAL AREA DATA INPUT (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	In the check surface data of the 3-D machining unit, the setting of the maximum value is smaller than that of the minimum value.				
<i>Action</i>	Review the check surface data, and make corrections so that the setting of the maximum value is equal to or greater than that of the minimum value for each axis.				
673	FL NUMBER EXCEEDED (3-D UNIT) (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	In the ruled-surface unit, the number of FLs is in excess of 20, or in the line- or face-machining unit, the number of defined figures is in excess of 2.				
<i>Action</i>	Review the machining program and correct the shape data.				
674	NO 5FACE CUTTING OPTION (WNo., UNo.,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An attempt has been made to execute a five-surface machining program when the five-surface machining option was not present.				
<i>Action</i>	Set the five-surface machining option to execute a five-surface machining program.				
675	ILLEGAL CUTTING FACE DESIGNATED (WNo.,UNo.,SNo.)	B	I (L)	P (S)	Red (Blue)
<i>Cause</i>	A face that cannot be cut with the selected head has been designated.				
<i>Action</i>	Change either the selected face or the head.				
676	ILLEGAL UNIT (WNo., UNo.,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	<ol style="list-style-type: none"> The face definition unit or five-surface machining unit includes illegal units and measurement sequences. Illegal units and sequences: face definition unit, pallet change unit, process end unit, index unit, WPC unit, and measurement of workpiece inclination. An MMS unit has been set in the program that has table rotational machining designated in its face definition sequence. 				
<i>Action</i>	<ol style="list-style-type: none"> Remove all illegal units and sequences from the machining program. MMS measurement is not possible while table rotational machining is effective. 				
					<HV>
677	UNREGISTERED HEAD DATA (WNo., UNo.,)	B	I (L)	P (S)	Red (Blue)
<i>Cause</i>	Head data corresponding to the head of the designated head number does not exist.				
<i>Action</i>	Review the designated head number.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
678	NO INTERSECTION (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	In the line- or face-machining unit, the coordinates of the intersection point of figures cannot be obtained because of shortage of, or contradiction, in the free-shape data.				
<i>Action</i>					
679	CONNECTING CORNER IMPOSSIBLE (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The figures cannot be connected smoothly at corner R because of contradiction in the data of corner R or in the data of the figures in front and rear of corner R.				
<i>Action</i>	Review the machining program and check the value of corner R of the free shapes.				
680	NUMBER OF HOLES EXCEEDED (>500) (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The point-machining units include one(s) that has more than 500 holes defined in it.				
<i>Action</i>	Review the point-machining units, and make corrections so that the total number of hole settings in one point-machining unit is not greater than 500.				
681	CORNER R/C DEFINED AT SPT/FPT (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Corner rounding or corner chamfering has been set at the starting or ending point of a figure when defining figures in the central linear machining, right-hand linear machining, left-hand linear machining, right-hand chamfering or left-hand chamfering units.				
<i>Action</i>	Review the machining program and correct it so that the corner rounding or corner chamfering is not set at the starting or ending point.				
682	ILLEGAL REPEAT FIGURE (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Contradiction presides in the figure rotation or figure shift data that has been set during defining free figures in the line- or face-machining unit.				
<i>Action</i>	Review and correct the corresponding shape data.				
683	UNDEFINED CORNER (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The value of designated corner rounding or corner chamfering is not appropriate.				
<i>Action</i>	Review the corresponding shape data and set the correct corner rounding or corner chamfering value.				
684	POINT CUTTING PATTERN ERROR (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The point-machining shape definition data is not appropriate.				
<i>Action</i>	Review and correct the corresponding shape data.				
685	SQUARE CANNOT BE DEFINED (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	When the shape pattern is "square", the input data cannot be used to make shape definitions.				
<i>Action</i>	Review and correct the corresponding shape data.				
686	NO STARTING POINT (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	During input of free-shape data (open-figure data) to the line-machining unit, "?" has been set as the definition of the starting point.				
<i>Action</i>	Review the machining program and set the coordinates of the starting point of the free shape.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
687	NO FINISH POINT (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	During input of free-shape data (open-figure data) to the line-machining unit, "?" has been set as the definition of the ending point.				
<i>Action</i>	Review the machining program and set the coordinates of the ending point of the free shape.				
688	INSUFFICIENT INPUT DATA (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The coordinates of the intersection point cannot be calculated since the free-shape input data in the line- or face-machining unit is incomplete.				
<i>Action</i>	Review the corresponding shape data and set data that is wanting.				
689	INPUT DATA TOO MANY (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	<ol style="list-style-type: none"> 1. The line- or face-machining unit contains too much free-shape input data, and there is contradiction between overlapping data. 2. Too many tool sequences have been set for the line- or face-machining unit. 				
<i>Action</i>	<ol style="list-style-type: none"> 1. Review the corresponding shape data and erase either one of the overlapping data sets. 2. Reduce the number of tool sequences. 				
690	ILLEGAL RADIUS (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Contradiction exists in the free-shape data that have been set to define arc in the line- or face-machining units.				
<i>Action</i>	Review the corresponding shape data and set correct data.				
691	MOUNT (VALLEY) SHAPE ERROR (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The second figures (inside figures) are not yet defined in the endmilling-mountain, pocket milling-mountain or pocket milling-valley unit.				
<i>Action</i>	Review the machining program, and define the second shape in the endmilling-mountain, pocket milling-mountain or pocket milling-mountain unit.				
692	MAX POINT NUMBER EXCEEDED (>200) (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The number of points which are necessary to define the shapes designated in the line- or face-machining unit exceeds 200.				
<i>Action</i>	Review the machining program, and reduce the number of shapes within one line- or face-machining unit.				
693	NUMBER OF SHAPES TOO LARGE (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Among the line- or face-machining units is one(s) that contains more shapes than allowable within one unit.				
<i>Action</i>	Review the corresponding shape data and check the number of shapes.				
694	FIXED FIGURE DESIGNATED ERROR (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Fixed shapes are included in the shape data (open figures) of the central linear machining, right-hand linear machining, left-hand linear machining, right-hand chamfering, left-hand chamfering or endmilling-groove units.				
<i>Action</i>	Change the fixed shapes to free ones.				
695	POINT INSIDE CIRCLE (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	It is not possible to draw a tangent line from point P1 since it is inside the arc.				
<i>Action</i>	Review the machining program and check the free-shaped data.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
696	ILLEGAL DIRECTION (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	"Left" or "right" is set in P, though "up" or "down" should have been set.				
<i>Action</i>	Review the machining program and check the value of P.				
697	DATUM <P> REQUIRED (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	P is not yet input in spite of the fact that there are more than one point of intersection with the arc.				
<i>Action</i>	Review the machining program and set P.				
698	TWO POINTS OVERLAP (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The coordinate values of the start point and end point are the same.				
<i>Action</i>	For the pattern of straight line, the data of X/Y are set to exactly the same end point coordinate values as X/Y present on the preceding line of the program; delete these data.				
699	PARALLEL LINE (WNo.,UNo.,SNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The two straight lines are parallel to each other, and thus the coordinates of their intersection point cannot be obtained.				
<i>Action</i>	Review the corresponding shape data and set correct data.				

5 ALARM LIST

No.	Message	Type of error	Stopped status	Clearing procedure	Display
700	— (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				
701	DEFINED SHAPE TOO SMALL (WNo.,UNo.,SNo.)	B	K	O	Blue
<i>Cause</i>	The shape compensation clearance with respect to the shape of the endmilling-top is too large; or the tool diameter with respect to the size of the line-inside machining is too large.				
<i>Action</i>	Change the shape compensation clearance (parameter E13) to an appropriate value; or use a tool of smaller diameter.				
702	FIGURE DEFINITION ERROR (WNo.,UNo.,SNo.)	B	K	O	Blue
<i>Cause</i>	The input shape is contradictory to logic, that is, the radius of the arc, for example, does not agree with the distance from the center.				
<i>Action</i>	Such contradiction usually results from arithmetic errors. Change the radial depth of cut by some micro, or use a tool of smaller diameter.				
703	PROCESS DEFINITION ERROR (WNo.,UNo.,SNo.)	B	K	O	Blue
<i>Cause</i>	The machining conditions are incorrect (for example, the radial depth of cut is zero).				
<i>Action</i>	Change the machining conditions to correct ones.				
704	TOOL INTERFERENCE (WNo.,UNo.,SNo.)	B	K	O	Blue
<i>Cause</i>	In area machining, the tool diameter with respect to the figure is too large.				
<i>Action</i>	Replace the tool with one that has a smaller diameter; or select the M2 mode endmilling-step machining pattern with setting bit 7 of parameter E91 if this error occurs in the outside machining endmilling-step.				
705	APPROACH POINT ERROR (WNo.,UNo.,SNo.)	B	K	O	Blue
<i>Cause</i>	The approach point cannot be obtained.				
<i>Action</i>	Reduce the tool diameter, the approach amount (parameters E1 , E2) and/or the overlap amount (parameter E21).				
706	ILLEGAL FIGURE DATA (WNo.,UNo.,SNo.)	B	K	O	Blue
<i>Cause</i>	<ul style="list-style-type: none"> - The shape has been separated into three segments or more as a result of offsetting. - The inside form does not contain the center of the outside form for outside-related fixed path. - The outside form is concave for inside-related fixed path. - The inside form is not adequate since it contains a concave or an intersection. 				
<i>Action</i>	Change the machining pattern (from inversed type to fixed type, for example); or divide the machining shape in advance so that it will not be separated by offsetting.				
707	CHAMFER CUTTER INTERFERENCE (WNo.,UNo.,SNo.)	B	K	O	Blue
<i>Cause</i>	The chamfering tool interferes with the side wall or bottom.				
<i>Action</i>	Use a tool which does not interfere with the side wall or bottom.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
708	BLOCK DATA LIMIT EXCEEDED (WNo.,UNo.,SNo.)	B	L	S	Blue
<i>Cause</i>	In the EIA program, the total number of characters within one block is in excess of 248.				
<i>Action</i>	Divide blocks so that one block contains 248 characters or less.				
750	CURVE DEFINITION ERROR (WNo.,UNo.,SNo.)	B	K	O	Blue
<i>Cause</i>	A curved surface that cannot be machined has been defined.				
<i>Action</i>	No corrective actions can be taken against this error; define a curved surface that can be machined.				
751	CURVE DEFINITION ERROR (WNo.,UNo.,SNo.)	B	K	O	Blue
<i>Cause</i>	A curved surface that cannot be machined has been defined.				
<i>Action</i>	No corrective actions can be taken against this error; define a curved surface that can be machined.				
752	DESIGNATED AREA DATA IMPOSSIBLE (WNo.,UNo.,SNo.)	B	K	O	Blue
<i>Cause</i>	The check surface values are incorrect. 1. For rough-machining 1 or 2: Check surface Z min. \geq material height 2. For finishing: Check surface Z min. $>$ initial Z 3. Check surface X min. $>$ X max., or Y min. $>$ Y max., or Z min. $>$ Z max.				
<i>Action</i>	Set the check surface values as follows: 1. For rough-machining 1 or 2: Check surface Z min. $<$ material height 2. For finishing: Check surface Z min. \leq initial Z 3. Check surface X min. \leq X max., and Y min. \leq Y max., and Z min. \leq Z max.				
753	SMALL TOOL (WNo.,UNo.,SNo.)	B	K	O	Blue
<i>Cause</i>	In rough-machining 2, the tool diameter is extremely small in comparison with the dimensions of the defined 3-D figure.				
<i>Action</i>	Use tools whose diameters are no less than 1/100 of the distance between the maximum and minimum dimensions of the 3-D figure.				
754	LARGE TOOL (WNo.,UNo.,SNo.)	B	K	O	Blue
<i>Cause</i>	Tool interference has occurred.				
<i>Action</i>	Note: Currently, this error message does not actually appear since an automatic tool-interference checking function is not provided. Here, this message is covered just to allow for future possible system expansion.				
755	R DIRECTION PITCH SMALL (WNo.,UNo.,SNo.)	B	K	O	Blue
<i>Cause</i>	In rough-machining 2, the pitch in the radial direction is extremely small in comparison with the dimensions of the defined 3-D figure.				
<i>Action</i>	Set the radial-direction pitch to a value no less than 1/200 of the distance between the maximum and minimum dimensions of the 3-D figure.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
756	Z DIRECTION PITCH SMALL (WNo.,UNo.,SNo.)	B	K	O	Blue
<i>Cause</i>	In rough-machining 2, the pitch in the Z direction is extremely small in comparison with the dimensions of the defined 3-D figure.				
<i>Action</i>	Set the Z-direction pitch to a value no less than 1/250 of (material height – height of the Z bottom of the 3-D figure).				
757	CURVE DEFINITION LARGE (WNo.,UNo.,SNo.)	B	K	O	Blue
<i>Cause</i>	<ul style="list-style-type: none"> - For rough-machining 2 with designation of workpiece size, the dimensions of the defined figure are larger than those of the workpiece. - For rough-machining 2, a material height smaller than “(height of the Z bottom of the 3-D figure) + (height of a machining area outside the figure)” [parameters E84, E89] has been set irrespective of designating the offset amount or the workpiece size. 				
<i>Action</i>	Change the E84 and E89 parameter settings so that: for the offset amount designation, “(height of the bottom of the 3-D figure) + E84 < material height”, and; for the workpiece size designation, “(height of the bottom of the 3-D figure) + E89 < material height”.				
758	INITIAL POINT SET ERROR (WNo.,UNo.,SNo.)	B	K	O	Blue
<i>Cause</i>	In rough-machining 1 or 2, initial Z ≤ material height.				
<i>Action</i>	Change settings to give initial Z > material height.				
	(, ,)				
<i>Cause</i>					
<i>Action</i>					
780	APPROACH PATH INTERFERENCE (WNo.,UNo.,SNo.)	B	L	O	Blue
<i>Cause</i>	The programmed approach path or retraction path interferes with the stock material (programmed shape plus removal allowance).				
<i>Action</i>	Reduce the approach amount/overlap amount or use a tool of smaller diameter; or set the approach point in a different position.				
	(, ,)				
<i>Cause</i>					
<i>Action</i>					

No.	Message	Type of error	Stopped status	Clearing procedure	Display
800	— (, ,)				
Cause	—				
Action	—				
801	SIMULTANEOUS AXIS EXCEEDED (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
Cause	The number of axis addresses which have been assigned in one block is in excess of the specifications.				
Action	Check the specifications and then divide the block into two parts.				
802	ILLEGAL AXIS NAME (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
Cause	1. The axis address names assigned in the program are different from those which have been parametrized. 2. Bit 4 of parameter M13 for the shaping control axis (the axis specified in parameter K3) is set to '0' (linear axis).				
Action	1. Correct the axis address names in the program. 2. Set bit 4 of parameter M13 for the shaping control axis (the axis specified in parameter K3) to '1' (rotational axis).				
803	DIVIDED COMMAND ERROR (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
Cause	A distance of axis movement that cannot be divided by the preset command unit has been assigned.				
Action	Review the program.				
804	PARITY H ERROR (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
Cause	On paper tape, the number of holes per character is even for EIA code or odd for ISO code.				
Action	Check the paper tape and the tape reader.				
805	PARITY V ERROR (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
Cause	On paper tape, the number of holes per block is odd.				
Action	Make even the hole quantity per block on the paper tape; or turn off the user parameter G31 used for parity-V selection.				
806	ILLEGAL ADDRESS (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
Cause	An address that is not covered in the specifications has been used.				
Action	Check and correct the corresponding address in the program, and also check the specifications.				
807	ILLEGAL FORMAT (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
Cause	The format in which the data has been designated in the program is incorrect.				
Action	Review the program.				
808	MIS-SET G CODE (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
Cause	A G code that is not covered in the specifications has been designated.				
Action	Check and correct the corresponding G code address in the program.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
809	ILLEGAL NUMBER INPUT (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The assigned data for the address is out of the allowable setting range.				
<i>Action</i>	Review the program.				
810	PROGRAM END NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	"EOR" has been detected during tape or memory operation.				
<i>Action</i>	For the main program, set M02 or M30 at the end of the program. For subprograms, set M99 at the end of the program.				
811	ILLEGAL O/N NUMBER (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Zeroes have been designated as program or sequence numbers.				
<i>Action</i>	Delete zero from N (sequence) or O (program) numbers of the program; or change O-No. (program numbers) to between 1 and 99999999, N-No. (sequence numbers) to between 1 and 99999.				
812	ERROR IN BUFFER BLOCK (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An error has been found to exist in the pre-read block during execution of tool-diameter compensation.				
<i>Action</i>	Review the program.				
813	INCH/METRIC OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The inch/metric selection command has been issued using the G code although a G-code inch/metric selection function is not provided.				
<i>Action</i>	Check the specifications.				
814	INTERPOLATION OVERFLOW (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The designated distance of movement is too large (in excess of 231).				
<i>Action</i>	Reduce the axis-address setting range.				
815	G60 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Program command G60 has been designated although a uni-directional positioning function is not provided.				
<i>Action</i>	Check the software specifications and change the program command G60 to G00.				
816	FEEDRATE ZERO (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The feedrate command has not been input.				
<i>Action</i>	Specify feedrate F for the movement command. (Since modal move command G01 is automatically set at power-on, axis movement in the modal mode is started by input of a move command, even if G01 is not designated in the program).				
817	INCORRECT ARC DATA (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The relationship between the starting and ending points of the arc and the center of the arc is not appropriate.				
<i>Action</i>	Check the values of the starting/ending points and the address values of center of the arc in the program, and check the address values for the correct direction (minus or plus).				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
818	MISSING CENTER (NO DATA) (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	For arc interpolation by R designation, the coordinates of the center of the arc cannot be calculated.				
<i>Action</i>	Correct the value of each address in the program.				
819	HERICAL OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The helical interpolation command has been issued although such an interpolation function is not provided.				
<i>Action</i>	Check the specifications, and if such an interpolation function is not available, correct the data of the block in which the arc interpolation command has been issued with designation of three axes.				
820	G02.1, G03.1 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The spiral interpolation command (G02.1 or G03.1) has been issued although such an interpolation function is not provided.				
<i>Action</i>	Delete the G02.1 or G03.1 command.				
821	G07 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The virtual-axis command (G07) has been issued although there are not virtual-axis specifications.				
<i>Action</i>	Check the specifications, and then change the G07 command.				
822	— (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				
823	G17 - G19 COMMAND IN M98 (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A plane selection command (G17, G18 or G19) has been issued during figure rotation.				
<i>Action</i>	Delete the plane selection command (G17, G18 or G19) from the figure rotation subprogram.				
824	G17 - G19 COMMAND IN G68 (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A plane selection command (G17, G18 or G19) has been specified in the coordinates rotation command (G68).				
<i>Action</i>	IF G68 has been issued, execute the coordinates rotation cancel command (G69) before specifying the plane selection command (G17, G18 or G19).				
825	G17 - G19 COMMAND IN G38 - G42 (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A plane selection command (G17, G18 or G19) has been specified during tool diameter compensation (G41 or G42).				
<i>Action</i>	Specify the plane selection command after the tool diameter compensation command has been canceled by G40.				
826	G95 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The synchronous feed command (G95) has been specified although such feed specifications are not provided.				
<i>Action</i>	After checking the specifications, change the synchronous feed command (G95) to the feed-in-minutes command (G94). Also change the F command value.				

5 ALARM LIST

No.	Message	Type of error	Stopped status	Clearing procedure	Display
827	F0 COMMAND IN G02, G03 (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The F 1-digit rapid-feed command (F0) has been specified during arc interpolation (G02 or G03).				
<i>Action</i>	Since rapid feed cannot be ordered for arc interpolation, specify an F 1-digit command other than F0. Specify G0 or G1 if the type of interpolation is not arc interpolation.				
828	NO AUTO CORNER OVERRIDE OPTION (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The automatic corner override command (G62) has been specified although such an override function is not available.				
<i>Action</i>	Check the specifications, and delete the G62 command from the program.				
829	ILLEGAL 2ND M CODE (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The secondary auxiliary function address that has been specified in the program is different from the corresponding address that has been parametrized.				
<i>Action</i>	Check and correct the secondary auxiliary function address that has been specified in the program.				
830	G96 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The constant circumferential speed command (G96) has been specified although such specifications are not provided.				
<i>Action</i>	Check the specifications and change the constant circumferential speed command (G96) to the speed command (rpm).				
831	G45,46,47,48 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A tool-position compensation command (G45 to G48) has been specified although such specifications are not provided.				
<i>Action</i>	Check the specifications.				
832	G45 - G49 COMMAND IN G98 (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Tool-position compensation has been specified during figure rotation or coordinates rotation.				
<i>Action</i>	Review the program.				
833	1/4, 3/4 CIRCLES IN G45 - G48 (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An arc command that is not available for tool-position compensation has been specified.				
<i>Action</i>	Review the program.				
834	G40, G41, G42 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A tool-diameter compensation command (G41 or G42) has been specified although such specifications are not provided.				
<i>Action</i>	Check the specifications.				
835	G41, G42, FORMAT ERROR (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A compensation command (G40, G41, G42) has been specified during the arc mode (G02 or G03 command).				
<i>Action</i>	Set either the linear command (G01) or the rapid-feed command (G00) into the compensation command block or the cancellation block. (That is, set the modal status to linear interpolation).				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
836	NO INTERSECTION (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	In tool-diameter compensation (G41 or G42), the coordinates of the intersection point existing when a block was skipped in processing of interference blocks cannot be calculated.				
<i>Action</i>	Review the program.				
837	TOOL OFFSET INTERFERENCE ERROR (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An interference error has occurred during execution of tool-diameter compensation (G41 or G42).				
<i>Action</i>	Review the program.				
838	3-D OFFSET OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The three-dimensional compensation command has been designated although such compensation specifications are not provided.				
<i>Action</i>	Check the specifications.				
839	ILLEGAL OFFSET No. (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A compensation command (G41 or G42) has been designated without a compensation number (DOO); or the compensation number is larger than the maximum number of sets of compensation numbers available in the specifications.				
<i>Action</i>	Check the maximum available number of sets of compensation numbers, and designate a compensation number smaller than that.				
840	CANNED CYCLE OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A fixed-cycle G code has been designated although fixed-cycle specifications are not provided.				
<i>Action</i>	Check the specifications and correct the program.				
841	— (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				
842	SUB PROGRAM NESTING EXCEEDED (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	<ol style="list-style-type: none"> 1. The total number of sequential calls of subprogram has exceeded eight. 2. Executing a program that includes an "M99" command has been attempted in the direct operation mode of HD, IC memory card or the Ethernet. 3. Invoking a program stored within the HD, IC memory card or the host has been attempted from the HD, IC memory card or the host. 				
<i>Action</i>	<ol style="list-style-type: none"> 1. Check the number of subprogram calls, and correct the program so that the number of calls does not exceed eight. 2. Do not include an "M99" command in the main program to be executed in the direct operation mode. 3. Do not invoke any subprograms of the HD, IC memory card or host from the main program of the HD, IC memory card or the host. 				
843	DESIGNATED SNo. NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The sequence number for subprogram call, for return from a subprogram or for the GOTO designation is not yet set.				
<i>Action</i>	Set the sequence number in the appropriate block.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
844	PROGRAM No. NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An attempt was made to call a subprogram which was not yet registered.				
<i>Action</i>	Register the subprogram.				
845	ILLEGAL VARIABLE COMMAND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A variables number has been designated although variables number (#OO) specifications are not provided.				
<i>Action</i>	Check the specifications.				
846	DESIGNATED NUMBER NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The designated variables number is larger than the maximum variables number permitted by the specifications.				
<i>Action</i>	Check the specifications and the variables numbers in the program.				
847	NO "=" CODE IN PROGRAM (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	"=" was not designated in the definition of a variable.				
<i>Action</i>	Set "=" in the variables definition.				
848	M98 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A figure rotation command has been designated although figure rotation specifications are not provided.				
<i>Action</i>	Check the specifications.				
849	FIGURE ROTATE NESTING EXCEEDED (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	One figure rotation command has been designated during execution of another such command.				
<i>Action</i>	Check the program.				
850	G68 AND M98 COMMANDS SAME BLOCK (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A figure rotation command and a coordinates rotation command are designated at the same time.				
<i>Action</i>	Check the program.				
851	G68 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The coordinates rotation command (G68) has been designated although coordinates rotation specifications are not provided.				
<i>Action</i>	Check the specifications.				
852	USER MACRO OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Macro specifications have been designated although such specifications are not provided.				
<i>Action</i>	Check the specifications.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
853	EXTERNAL MACRO OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A user macro interruption command has been designated although such interruption specifications are not provided.				
<i>Action</i>	Check the specifications.				
854	INCORRECT USERMACRO PROGRAMMING (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An NC statement and a macro statement are present in one block.				
<i>Action</i>	Review the program and give the NC statement and the macro statement in separate blocks.				
855	USER MACRO NESTING EXCEEDED (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The maximum permissible degree of multiplicity of user macro calls has been exceeded.				
<i>Action</i>	Review the program and correct it so that the number of user macro calls does not exceed the maximum number of calls permitted by the specifications.				
856	USER MACRO ARGUMENT EXCEEDED (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The number of sets of user macro call arguments of type II is too large.				
<i>Action</i>	Review the program.				
857	INCORRECT USER MACRO G67 PROG. (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Command G67 has been designated when G66 command modal state was not yet set.				
<i>Action</i>	The G67 command is the call cancellation command; after reviewing the program, designate firstly the G66 command and then the G67 command.				
858	USER MACRO “[” NESTING EXCEEDED (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The total number of “[” and “]” within one block has become more than five.				
<i>Action</i>	Review the program, and correct it so that the total number of “[” and “]” within one block does not exceed five.				
859	NUMBER OF PARENTHESIS MIS-MATCH (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The total number of “[” and “]” within one block differ.				
<i>Action</i>	Review the program, and correct it so that the total number of “[” and of “]” become the same.				
860	CALCULATION IMPOSSIBLE (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The operation expression is not correct.				
<i>Action</i>	Review the program and correct the operation expression.				
861	DIVISION BY ZERO (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The denominator in the division expression is zero.				
<i>Action</i>	Review the program and correct it so that the denominator in the division expression does not become zero.				

5 ALARM LIST

No.	Message	Type of error	Stopped status	Clearing procedure	Display
862	INTEGER VALUE OVERFLOW (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The integral value has overstepped -2^{31} ($2^{31}-1$) in the operation process.				
<i>Action</i>	Review the operation expression written in the program, and correct it so that after operation, the value of the integer does not overstep -2^{31} .				
863	REAL VALUE OVERFLOW (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The variables data is overflowing.				
<i>Action</i>	Review the variables data in the program.				
864	"IF" STATEMENT ERROR (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The statement of IF [<conditional expression>] GOTO is wrong.				
<i>Action</i>	Review the program.				
865	"WHILE" STATEMENT ERROR (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The statement of WHILE [<conditional expression>] DO ~ END is wrong.				
<i>Action</i>	Review the program.				
866	"SETVN" STATEMENT ERROR (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The SETVN statement containing the variables name is wrong.				
<i>Action</i>	Review the program and correct it so that the variables name in the SETVN statement consists of seven characters or less.				
867	DO-END NESTING EXCEEDED (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Of WHILE [<conditional expression>] DO ~ END, DO ~ END has appeared more than 27 times (degree of multiplicity).				
<i>Action</i>	Review the program and correct it to reduce the degree of multiplicity of DO ~ END to no larger than 27 (27 times).				
868	DO-END MIS-MATCH (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The DO's and END's are not formed in pairs.				
<i>Action</i>	Review the program and correct it to give DO's and END's in pairs.				
869	NO USER MACRO IN TAPE MODE (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	During tape operation, a WHILE or GOTO statement has been found to exist in the tape contents.				
<i>Action</i>	Execute the command in the memory operation mode since blocks containing a WHILE or GOTO statement cannot be executed during tape operation.				
870	ILLEGAL VARIABLE NAME (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The designated variables name is not correct.				
<i>Action</i>	Review the variables names in the program and correct the corresponding variables name.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
871	VARIABLE NAME EXISTS (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	There are overlapping variables names.				
<i>Action</i>	Correct the program so that variables names do not overlap.				
872	G51 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A scaling command (G50 or G51) has been designated although scaling specifications are not provided.				
<i>Action</i>	Check the specifications.				
873	G51.1 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A mirror image command (G50.1 or G51.1) has been designated although programmable mirror image specifications are not provided.				
<i>Action</i>	Check the specifications.				
874	CORNER R/C OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Corner chamfering or corner rounding I/II has been designated although such specifications are not provided.				
<i>Action</i>	Check the specifications and delete corner rounding or corner chamfering from the program.				
875	NOT FOUND GEOMETRIC OPTION (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The geometric command has been designated although geometric specifications are not provided.				
<i>Action</i>	Check the specifications.				
876	NOT FOUND GEOMETRIC OPTION (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The geometrics setting format is wrong.				
<i>Action</i>	Review the program.				
877	G15 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The polar coordinates command (G16) has been designated although such command specifications are not provided.				
<i>Action</i>	Check the specifications.				
878	ADDRESS CHANGE OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Absolute/incremental axis address conversion has been designated although such conversion specifications are not provided.				
<i>Action</i>	Check the specifications.				
879	G10 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Program data input has been designated although such input specifications are not provided.				
<i>Action</i>	Check the specifications.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
880	AXIS NOT ZERO RETURNED (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A move command other than that for reference-point return has been designated for the axis that was not returned to its reference point.				
<i>Action</i>	Manually return the axis to its reference point.				
881	G30 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Second, third or fourth reference-point return has been designated although such reference-point returning specifications are not provided.				
<i>Action</i>	Check the specifications.				
882	— (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				
883	— (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				
884	REFERENCE POINT RETURN CHECK (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An axis had not returned to the zero-point when the zero-point check command (G27) was executed.				
<i>Action</i>	Review the program.				
885	G22 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The before-movement stroke check function (G22) has been designated although such function specifications are not provided.				
<i>Action</i>	Check the specifications.				
886	BEYOND AREA OF G22 (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	This alarm message is displayed before execution of a movement block to indicate that the ending point of the axis movement designated in the block is likely to enter the forbidden area which has been designated using the before-movement stroke check function (G22).				
<i>Action</i>	Review the axis-address coordinate values in the program.				
887	TAPE I/O ERROR (WNo.,NNo.,BNo.)	B (G)	I	O	Red (Blue)
<i>Cause</i>	1. Errors have occurred in the tape reader or printer errors have occurred during macroprogram data printing. 2. Host computer program used for Ethernet operation has failed.				
<i>Action</i>	1. Check for parameter errors. 2. Check for improper connection between the host computer containing the designated program, and the NC unit.				
888	FILE I/O ERROR (, ,)	E	I	O	Red (Blue)
<i>Cause</i>	The machining program file cannot be read.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
889	G37 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The automatic tool-length measurement command (G37) has been designated although such measurement specifications are not provided.				
<i>Action</i>	Check the specifications.				
890	G31 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The skip command (G31) has been designated although skip specifications are not provided.				
<i>Action</i>	Check the specifications.				
891	G31.1 - G31.3 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A multi-step skip command (G31.1, G31.2 or G31.3) has been designated although such skip specifications are not provided.				
<i>Action</i>	Check the specifications.				
892	AUTO PROGRAMMING FAILURE (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A trouble has occurred with the software of auto program during the operation.				
<i>Action</i>	Please contact your YAMAZAKI MAZAK products service station.				
893	PROGRAM DATA MISSING (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Argument P was not designated in the macro call command (G65, G66, G66.1).				
<i>Action</i>	Review the program and set the number of the macro program to be called to argument P.				
894	MAZATROL PROGRAM DESIGNATED (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	<ol style="list-style-type: none"> 1. An attempt has been made to call a MAZATROL program from an EIA/ISO program which was designated as a subprogram of MAZATROL program. 2. A MAZATROL program has been specified using G65 command (subprogram call) in the manual program mode unit of the MAZATROL program. 				
<i>Action</i>	In cases 1 and 2 above, a MAZATROL program cannot be called as a subprogram. Review the program.				
895	IC CARD I/O BUSY (, ,)	A	I	O	Red
<i>Cause</i>	An attempt has been made to execute the IC memory card operation during data I/O operation with an IC memory card.				
<i>Action</i>	Execute the IC memory card operation after stop or completion of the data I/O operation with an IC memory card.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
900	— (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				
901	INCORRECT FIXED CYCLE COMMAND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The fixed-cycle command has been set in the program during the tool-diameter compensation (G41 or G42) modal status.				
<i>Action</i>	Set the tool-diameter compensation cancellation command (G40) before the fixed-cycle command.				
902	G10 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The G10 command has been designated although this command is not available with the system.				
<i>Action</i>	Check the specifications.				
903	ILLEGAL G10 L NUMBER (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An unallowable L number has been designated during input of G10 program command.				
<i>Action</i>	Correct the L number in the program.				
904	ILLEGAL G10 OFFSET No. (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Compensation numbers other than the number of sets permitted by the specifications have been designated during input of G10.				
<i>Action</i>	After checking the number of compensation sets permitted by the specifications, change the setting of address P to a value smaller than the permissible number of sets.				
905	G11 OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The G11 command has been designated although this command is not available with the system.				
<i>Action</i>	Check the specifications.				
906	NO S DIRECTIVE IN FIXED CYCLE (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The spindle speed for the fixed cycle has not yet been set in the program.				
<i>Action</i>	Program the spindle speed command in the block which precedes the block with the fixed cycle command.				
907	DIFFERENT SPINDLE TYPE (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An attempt has been made to machine the workpiece using the synchronous tapping method in spite of the spindle controller being an SE type.				
<i>Action</i>	Use the appropriate tapping method for the particular type of the spindle controller.				
908	NO PITCH IN FIXED CYCLE (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The pitch or the number of threads has not been designated for the tapping cycle (G74 or G84) of the drilling fixed cycles.				
<i>Action</i>	Designate the pitch using address F or E.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
909	ILLEGAL PITCH IN FIXED CYCLE (WNo.,NNo.,BNo.)	B	K	S	Blue
<i>Cause</i>	The pitch or the number of threads designated for the tapping cycle (G74 or G84) of the drilling fixed cycles is wrong.				
<i>Action</i>	Check and correct the pitch or the number of threads.				
910	— (, ,)				
<i>Cause</i>	—				
<i>Action</i>	—				
911	CORNER R/C OPTION NOT FOUND (WNo.,NNo.,BNo.)	B	K	S	Blue
<i>Cause</i>	Corner chamfering/corner rounding has been designated although such specifications are not provided.				
<i>Action</i>	Check the specifications and delete corner rounding or corner chamfering from the program.				
912	NO MOTION COMMAND AFTER R/C (WNo.,NNo.,BNo.)	B	K	S	Blue
<i>Cause</i>	The block that is to succeed the corner rounding or corner chamfering command does not consist of a move command.				
<i>Action</i>	Give the G01 command in the corresponding block.				
913	INCORRECT R/C COMMAND (WNo.,NNo.,BNo.)	B	K	S	Blue
<i>Cause</i>	The length of the corner rounding or corner chamfering that has been designated in the corner rounding or chamfering command is larger than the distance of movement.				
<i>Action</i>	Reduce the length of the corner rounding or chamfering to a value smaller than the distance of movement.				
914	INCORRECT COMMAND AFTER R/C (WNo.,NNo.,BNo.)	B	K	S	Blue
<i>Cause</i>	The movement distance designated in the next block is shorter than the length of the corner rounding or corner chamfering.				
<i>Action</i>	Reduce the length of the corner rounding or chamfering to a value smaller than the moving distance of the next block.				
915	ANGLE < 1 DEGREE (WNo.,NNo.,BNo.)	B	K	O	Blue
<i>Cause</i>	In the geometrics command, the difference in angle between the two straight lines which intersect with each other is less than 1 degree.				
<i>Action</i>	Increase the angle difference in the geometrics command.				
916	GEOMETRIC COMMAND NOT ABSOLUTE (WNo.,NNo.,BNo.)	B	K	O	Blue
<i>Cause</i>	The second block of the geometrics command is an incremental command.				
<i>Action</i>	The second block must always consists of absolute data. Program it in units of absolute coordinates.				
917	NO LINEAR COMMAND IN 2ND BLOCK (WNo.,NNo.,BNo.)	B	K	O	Blue
<i>Cause</i>	The second block of the geometrics command is not given the linear command (G1).				
<i>Action</i>	Correct the program so that the linear command (G1) and the feedrate command (F) are given to the second block.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
918	INCORRECT ANGLE DATA (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	In address designation of the geometrics command, the angle in the first block, ending point coordinates and angle in the second block are incorrectly given.				
<i>Action</i>	Check and reprogram the corresponding data.				
919	INCORRECT PLANE SELECTION CMD. (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A plane selection command (G17, G18 or G19) was given in the geometrics command block.				
<i>Action</i>	Program the plane selection command (G17, G18 or G19) in the block that precedes the geometrics command block.				
920	G27, M COMMANDS SAME BLOCK (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An M independent command (M0, M1, M2 or M30) has been programmed in the same block as the G27 command.				
<i>Action</i>	Correct the program so that the G27 command and the M independent command are contained in separate blocks.				
921	G29, M COMMANDS SAME BLOCK (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An M independent command (M0, M1, M2 or M30) and the G29 command (start-position return) have been programmed in the same block.				
<i>Action</i>	Correct the program so that the G29 command and the M independent command are contained in separate blocks.				
922	SKIP SPEED ZERO (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The feedrate F has not been programmed in the G31 (skip) command block.				
<i>Action</i>	Set the skip feedrate F into the G31 program block.				
923	ILLEGAL COMMAND G37 AXIS (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	No axis settings are included in the automatic tool-length measurement block; or more than one axis setting have been made.				
<i>Action</i>	Designate only one axis.				
924	G37, H COMMANDS SAME BLOCK (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The H code is in the same block as the automatic tool-length measurement command.				
<i>Action</i>	Set the H code into a block preceding the automatic tool-length measurement block.				
925	H CODE REQUIRED (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The H code is not yet set for automatic tool-length measurement.				
<i>Action</i>	Set an H code into a block preceding the automatic tool-length measurement block.				
926	ILLEGAL G37 SIGNAL (WNo.,NNo.,BNo.)	B	I	O	Red
<i>Cause</i>	The signal of measuring-position arrival has been turned on before the tool reaches the area designated through either a D code or the parameter for deceleration area "d"; or the signal has not been turned on at all.				
<i>Action</i>	Check the program and parameters.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
927	SKIP COMMAND IN CORRECTING DIA (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The skip command (G31) was given during tool-diameter compensation (G41 or G42).				
<i>Action</i>	Correct the program so that the skip command is executed only after the cutter-diameter compensation cancellation command (G40) has been executed.				
928	ILLEGAL HEAD DATA No. (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The offset number that has been designated in the program is outside the range from 0 to 10.				
<i>Action</i>	Review the machining program and set an allowable offset number.				
929	HEAD DATA No. NOT FOUND (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An "H_" number is missing in the "G45.1H_" part of the EIA/ISO program.				
<i>Action</i>	Review the machining program and set an allowable offset number.				
930	ILLEGAL HEAD TYPE (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The head type does not match to the face that has been designated in the program.				
<i>Action</i>	Review the machining program and set the correct head type.				
931	NO HEAD DATA (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The head number that has been designated in the program is not registered on the HEAD OFFSET display.				
<i>Action</i>	<ol style="list-style-type: none"> 1. Review the designated head number. 2. Check if the designated head number is registered on the HEAD OFFSET display. 				
932	RETURN R POINT IN CUTTING SIDE (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Return to reference point has been designated during the side-machining mode (G17.2 to G17.5) of the program.				
<i>Action</i>	Return to reference point cannot be executed during the side-machining mode (G17.2 to G17.5). Review the cutting program.				
933	NO 5FACE CUTTING OPTION (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An attempt has been made to execute a five-surface machining program when the five-surface machining option was not present.				
<i>Action</i>	Set the five-surface machining option to execute a five-surface machining program.				
934	NO HIGH-SPEED MODE OPTION (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An attempt has been made to execute the high-speed mode program when the high-speed mode option was not set.				
<i>Action</i>	Without the high-speed mode option, the high-speed mode program cannot be executed.				
935	NO PRE-INTERP ACCEL/DECEL OPT. (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An attempt has been made to execute the high-accuracy mode program when the high-accuracy mode option was not set.				
<i>Action</i>	Without the high-accuracy mode option, the high-accuracy mode program cannot be executed.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
936	OPTION NOT FOUND (WNo., 0, 0)	E	I (L)	O	Red
<i>Cause</i>	Either of the following five options is missing (identify the corresponding option from the work number specified in the argument corresponding to the alarm): 1. NURBS interpolation option 2. Shaping option 3. Planet tapping option 4. MAZAK precision rapid boring tornado option or shape correction control option 5. Ethernet operation				
<i>Action</i>	Check the specifications.				
937	ILLEGAL TOOL DESIGNATED (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The designated tool cannot be used.				
<i>Action</i>	Check the TOOL DATA display to see if the designated tool is an unusable one.				
938	NO IC CARD MODE OPTION (, ,)	A	K	P	Red
<i>Cause</i>	An attempt has been made to execute the IC memory card operation although the optional function of IC memory card operation is not available.				
<i>Action</i>	This operation cannot be executed because the optional function of IC memory card operation is not available.				
939	NO THREAD CUTTING OPTION (WNo.,NNo.,BNo.)	A (A)	K (L)	P (S)	Red (Blue)
<i>Cause</i>	An attempt has been made to execute operation or tool path check of the program that contains G33 command (threading), although G33 option is not provided.				
<i>Action</i>	Without G33 option, G33 threading command cannot be used.				
940	NO INVERSE TIME OPTION (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	Inverse time feed program was attempted although inverse time feed option is not provided.				
<i>Action</i>	Inverse time feed program cannot be executed because inverse time feed option is not provided.				
941	G93 MODE (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	G code of inhibition during G93 mode has been designated.				
<i>Action</i>	Review the program and delete G code of inhibition.				
942	NO 3-D CONVERSION OPTION (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An attempt has been made to execute the three-dimensional coordinate conversion program in the absence of a three-dimensional coordinate conversion option.				
<i>Action</i>	Three-dimensional coordinate conversion is not possible because of the absence of a three-dimensional coordinate conversion option.				
					<HV>
943	CONVERTING IN 3-D COORDINATES (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An illegal G-code in the G68 mode has been designated.				
<i>Action</i>	Review the program, and delete the illegal G-code.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
944	WRONG CMD. IN 3-D COORDINATES (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A G68 command has been designated during the modal information that does not permit G68 to be set.				
<i>Action</i>	Review the program, and modify the modal information existing when the G68 command was designated. <HV>				
945	NO HV MACHINING FUNC. OPTION (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An attempt has been made to execute A-axis/B-axis automatic, sequential control or A-axis direct programming in the absence of an HV machining option.				
<i>Action</i>	Neither A-axis/B-axis automatic, sequential control, nor A-axis direct programming is possible because of the absence of the option. <HV>				
946	NO MAZ. SUB PROGRAM OPTION (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An attempt has been made to call up a MAZATROL program from the EIA/ISO program in spite of the absence of a MAZATROL call option.				
<i>Action</i>	Since a MAZATROL call option is not present, MAZATROL programs cannot be called up from EIA/ISO programs using the subprogram call function.				
947	NO BLOCK SKIP OPTION (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An attempt has been made to carry out block skip operations in spite of the absence of a block skip option.				
<i>Action</i>	Block skipping is not possible because of the absence of a block skip option.				
948	NO G54.1 OPTION (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An attempt has been made to use a G54.1 code in spite of the absence of a G54.1 (additional workpiece coordinate system) option.				
<i>Action</i>	A G54.1 code cannot be used because of the absence of a G54.1 (additional workpiece coordinate system) option.				
949	NO G52 IN G54.1 MODE (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An attempt has been made to use an additional workpiece coordinate system and a local workpiece coordinate system at the same time.				
<i>Action</i>	An additional workpiece coordinate system and a local workpiece coordinate system cannot be used at the same time.				
950	NO SPLINE CUTTING OPTION (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An attempt has been made to specify a spline interpolation command in spite of the absence of a spline interpolation option.				
<i>Action</i>	A spline interpolation command cannot be used because of the absence of a spline interpolation option.				
951	NO CORNER C/R COMMAND IN G0/G33 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	A corner chamfering/rounding command has been designated in the G0 or G33 mode.				
<i>Action</i>	A corner chamfering/rounding command cannot be designated in the G0 or G33 mode.				
952	NO SYNCHRONIZED TAP OPTION (WNo.,NNo.,BNo.)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	An attempt has been made to perform synchronized tapping in spite of the absence of a synchronized tapping option.				
<i>Action</i>	Synchronized tapping cannot be performed because of the absence of a synchronized tapping option.				

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No.	Message	Type of error	Stopped status	Clearing procedure	Display
953	TOOL DATA INPUT PROCESS ERROR (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	During the execution of EIA/ISO program or of MDI, the tool data was found not to include "LENGTH" or "ACT-φ (NOM-φ)" (this, however, applies only if bit 7 of parameter F84 is set to "1" for the use of MAZATROL tool length and tool diameter data).				
<i>Action</i>	Recheck the tool data and set missing values. (Related parameters: F84-7 , F92-7 , F93-3)				
954	SCREW PITCH ERR (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	The thread lead (thread pitch) that has been designated in the threading command data is not correct.				
<i>Action</i>	Set the correct thread lead in the threading command data.				
955	START AND END POINT NOT AGREE (WNo.,NNo.,BNo.)	E	I (L)	O	Red
<i>Cause</i>	The ending point of the block immediately preceding the G06.2 command data, and the command data in the starting block of G06.2 do not match.				
<i>Action</i>	Modify the program so that the coordinate command data in the starting block of G06.2 matches the ending point of the immediately preceding block.				
956	RESTART OPERATION NOT ALLOWED (WNo.,NNo.,BNo.)	E	I (L)	O	Red
<i>Cause</i>	Restarting from the block containing the G06.2 mode data has been attempted.				
<i>Action</i>	Restart from a block not containing G06.2 mode data.				
957	MANUAL INTERRUPT NOT ALLOWED (WNo.,NNo.,BNo.)	E	I (L)	O	Red
<i>Cause</i>	Manual handle or MDI interruption from the block containing the G06.2 mode data has been attempted.				
<i>Action</i>	Perform manual interruptions only at blocks not containing G06.2 mode data.				
958	AUTO PECKING IMPOSSIBLE (WNo.,NNo.,BNo.)	E	I	O	Red
<i>Cause</i>	1. The threshold value for load detection-based auto-pecking is not set to 0 or no such value is set. 2. The parameter is not set appropriately.				
<i>Action</i>	1. Set the appropriate threshold value either in the drill monitoring mode of the MACHINING-MONITORING display or on the TOOL DATA display. 2. For parameter setting, please contact the Mazak service representative in your area.				
979	MACRO USER ALARM (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = n (alarm message) in the user macroprogram was executed. (n ≥ 21)				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				
980	MACRO USER ALARM 1 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 1 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				
981	MACRO USER ALARM 2 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 2 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				

No.	Message	Type of error	Stopped status	Clearing procedure	Display
982	MACRO USER ALARM 3 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 3 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				
983	MACRO USER ALARM 4 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 4 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				
984	MACRO USER ALARM 5 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 5 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				
985	MACRO USER ALARM 6 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 6 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				
986	MACRO USER ALARM 7 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 7 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				
987	MACRO USER ALARM 8 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 8 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				
988	MACRO USER ALARM 9 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 9 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				
989	MACRO USER ALARM 10 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 10 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				
990	MACRO MEASUREMENT ALARM 1 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	<ol style="list-style-type: none"> 1. During execution of the MMS unit, the touch sensor has not come into contact with the workpiece (the skip signal has not turned on) when the maximum feed distance available at the skipping speed is exceeded. 2. #3000 = 11 (alarm message) in the user macroprogram was executed. 				
<i>Action</i>	<ol style="list-style-type: none"> 1. Check the machining program. 2. Refer to the relevant user macroprogram instruction manual to check the alarm. 				

5 ALARM LIST

No.	Message	Type of error	Stopped status	Clearing procedure	Display
991	MACRO MEASUREMENT ALARM 2 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	1. During execution of the MMS unit, the touch sensor came into contact with the workpiece (the skip signal turned on) when another feeding than that at the skipping speed was taking place. 2. #3000 = 12 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	1. Check the machining program. Also check the touch sensor for proper mounting on the spindle. 2. Refer to the relevant user macroprogram instruction manual to check the alarm.				
992	MACRO MEASUREMENT ALARM 3 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	1. Correct signals were not output because of trouble with the touch sensors, receivers or other such MMS unit components. 2. #3000 = 13 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	1. Contact a service station. 2. Refer to the relevant user macroprogram instruction manual to check the alarm.				
993	MACRO MEASUREMENT ALARM 4 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 14 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				
994	MACRO MEASUREMENT ALARM 5 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 15 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				
995	MACRO MEASUREMENT ALARM 6 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 16 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				
996	MACRO MEASUREMENT ALARM 7 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 17 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				
997	MACRO MEASUREMENT ALARM 8 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 18 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				
998	MACRO MEASUREMENT ALARM 9 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 19 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				
999	MACRO MEASUREMENT ALARM 10 (, ,)	B	I (L)	O (S)	Red (Blue)
<i>Cause</i>	#3000 = 20 (alarm message) in the user macroprogram was executed.				
<i>Action</i>	Refer to the relevant user macroprogram instruction manual to check the alarm.				