

ALARM LIST

for

MAZATROL M-32

PUBLICATION No.: H731SA0593E

Serial No.

PRECAUTIONS

- Before operating this machine, please read this manual with care and fully understand the contents of the manual so that the machine can exert its performance safely.
 - Although the contents of this manual are closely checked for perfection, if there is any ambivalent point, incorrect description, or omission, contact us, please.
 - In order to explain the details, all the illustrations contained in this manual do not necessarily show the covers, doors, safety guards, or shields. Therefore, be sure to restore all the specified covers, shields, etc., and observe the contents of the manual when operating this machine. If this precaution is ignored, a serious accident may incur, resulting in damage to the important units of the machine and other accessories.
 - This manual is subject to modifications and changes as required for the improvement in, and the change in the specification of, the machine and the CNC equipment, as well as for usability of the manual itself. The modifications and changes are indicated by updating the manual numbers in a revised version.
 - When your manual is damaged or lost, and a new material is needed, inform us of the "manual number."
If the manual number is not identified, inform us of the following:
1. Name of the machine 2. Number of the machine 3. Name of the manual
- ☛ Contact the Technical Center (TC) or the Service Center (SC) of Yamazaki Mazak for operations of this machine and replacement of the manual.

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Yamazaki Mazak Co., Ltd.

Introduction

This text describes the meaning of various alarms used for the MAZATROL M-32 and the procedure to eliminate their cause. Read this list carefully in order to make the best use of the possibilities of the MAZATROL M-32.

It is advisable to consult the Operating manual as required.

Notes:

1. It is prohibited to partially or completely transcribe, reproduce or modify this manual.
2. This manual will be subject to change without notice.
3. In the case where you find a doubtful point, an error or omission in this manual which was prepared with careful attention, please send your suggestions to our service center.

Documents that accompany the product

Standard

- Operating manual for MAZATROL M-32
- Programming manual for MAZATROL M-32
- Parameter list for MAZATROL M-32
- Alarm list for MAZATROL M-32 (this text)

Option

- Programming manual for MAZATROL M-32 EIA/ISO
- Programming manual for 3-D processing
- Programming manual for five-surface machining
- CPU-LINK communication software preparation procedure
- Operating manual for MAZATROL CAM32-A system
- Operating manual for MAZATROL EDITOR

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 **ALARM** display on the screen and make sure of the type of alarm.

(1) Machine-status indicator lamps

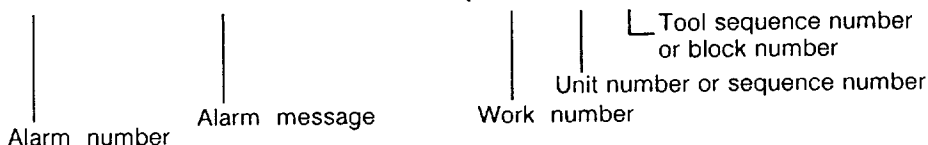
Either one or both of the following two lamps light up in the event of alarm:

- **?M. FAIL** Lights up in the event of a machine failure.
- **?NC ALARM** . . Lights up in the event of trouble with the NC equipment.

(2) Alarm display

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


650 CHAMFERING IMPOSSIBLE (1234, 56, 78)



(3) Color of alarm display and its clearance

Alarm display is presented in either red or blue.

Red Clear the display with the reset key ().

Blue Clear the display with either the clear key () or the M. FAIL CLEAR key.

(4) Structure of the Alarm List

①	②	(, ⑨ ,)
Cause	③	Type of error
		⑤
		Stopped status
		⑥
Action	④	Clearing procedure
		⑦
		Display
		⑧

① Alarm number

② Alarm message

③ Cause of alarm

④ Action to be taken to eliminate the cause

⑤ 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

⑥ Stopped status

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

⑦ 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 M. FAIL CLEAR key
R	Press M. FAIL CLEAR key
S	Press clear key

⑧ Display

See the description of (3) above.

⑨ See the following **Note 1**.**Notes:**

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)
blank	No display, or intra-system alarm processing code

2. The stopped status (⑥), clearing procedure (⑦), and display color (⑧) 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 **WK. 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.

000	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

003	MEMORY PARITY	(, ,)
Cause		Type of error
The contents of the memory within the NC system (operation instructions or data) have been destroyed.		E
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

001	WATCH DOG 1	(, ,)
Cause		Type of error
The NC system was not able to process data within unit processing time.		E
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

004	MEMORY GUARD	(, ,)
Cause		Type of error
A defect(s) is included in the system software or custom software.		E
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

002	SYSTEM ERROR	(, ,)
Cause		Type of error
There has occurred trouble with the software of the NC system.		E
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

005	ZERO DIVISION	(, ,)
Cause		Type of error
Illegal data (such as zero-division data) is included in either the parameter set, machining program or other types of data.		B
		Stopped status
		H
Action		Clearing procedure
Check the parameter set, machining program etc. for correctness.		N
		Display
		Red

006	SYSTEM LOADING ERROR (, ,)
Cause	Type of error
The system software stored on the floppy disk has been destroyed . Or a malfunction has occurred in the floppy disk unit.	G
	Stopped status
Action	Clearing procedure
The floppy disk or the disk unit (including the card) needs replacing. Please contact your YAMAZAKI MAZAK products service station.	M
	Display
	Red

009	SPNDL.CONTROL. (IC MAC 012) ALARM (, ,)
Cause	Type of error
The IC MAC 012 on the control printed-circuit board has not correctly operated.	D
	Stopped status
	H
Action	Clearing procedure
Replace the SF-CA card.	M
	Display
	Red

007	SUM CHECK (CRC) ERROR (, ,)
Cause	Type of error
The contents of the system software and/or custom software have been destroyed.	E
	Stopped status
	H
Action	Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.	M
	Display
	Red

010	SPNDL SPEED ERROR (, ,)
Cause	Type of error
The difference between the designated speed and the motor speed has exceeded the required value because of: ① Spindle overload ② Speed detection encoder error ③ Card malfunction	D
	Stopped status
	H
Action	Clearing procedure
For ① above, reduce the load. For ② above, replace the speed detection encoder. For ③ above, replace the FS-CA card.	M
	Display
	Red

008	BATTERY ALARM (, ,)
Cause	Type of error
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.	E
	Stopped status
	L
Action	Clearing procedure
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.	P
	Display
	Blue

011	WATCH DOG 1 (, ,)
Cause	Type of error
The NC system was not able to process data within unit processing time.	E
	Stopped status
	H
Action	Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.	M
	Display
	Red

012	SYSTEM ERROR	(, ,)
Cause		Type of error
An error(s) has occurred in the software of the NC system.		E
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

015	ZERO DIVISION	(, ,)
Cause		Type of error
Illegal data (such as zero-division data) is included in either the parameter set, machining program or other types of data.		B
		Stopped status
		H
Action		Clearing procedure
Check if "0" data is included in the parameter set, machining program or other types of machining data, and then correct it if such data is present.		N
		Display
		Red

013	MEMORY PARITY	(, ,)
Cause		Type of error
The contents of the memory within the NC system (operation instructions or data) have been destroyed.		E
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

016	SYSTEM LOADING ERROR	(, ,)
Cause		Type of error
The system software stored on the floppy disk has been destroyed. Or a malfunction has occurred in the floppy disk unit.		G
		Stopped status
Action		Clearing procedure
The floppy disk or the disk unit (including the card) needs replacing. Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

014	MEMORY GUARD	(, ,)
Cause		Type of error
A defect(s) is included in the system software or custom software.		E
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

017	SUM CHECK (CRC) ERROR	(, ,)
Cause		Type of error
The contents of the system software and/or custom software have been destroyed.		E
		Stopped status
		H
Action		Clearing procedure
Turn power off and then back on. If this does not clear the error status, please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

018	BATTERY ALARM		(, ,)
Cause	<p>This message indicates that the battery provided to retain parameter, machining program and other types of data within the NC system has reached the minimum voltage level permissible or has run down.</p>	Type of error	
		E	
		Stopped status	
		H	
Action	<p>It is required that the machining data is rechecked for possible destruction or that the battery is recharged or replaced. For battery recharging or replacement, see the relevant description in the Maintenance Manual.</p>	Clearing procedure	
		M	
		Display	
		Red	

019	SPNDL. CONTROL. (BREAKER TRIP) (, ,)
Cause	Type of error
A current exceeding the required value has flown into the main circuit because of: (Same as for No. 20.)	
	Stopped status
Action	Clearing procedure
	Display

020	SPNDL (CONVERTER OVERCURRENT)(, ,)
Cause	Type of error
A current exceeding the required value has flown into the converter because of: ① Power transistor damage ② Motor overload ③ Wrong motor wiring ④ Motor coil layer short-circuit ⑤ Insufficient power capacity ⑥ Abnormal line voltage waveform ⑦ Abnormal line frequency ($\pm 3\%$) ⑧ Current detector circuit fault	D
	Stopped status
	H
Action	Clearing procedure
① Replace the power transistor ② Reduce the load ③ Correct the wiring ④ Replace the motor ⑤ Increase the power capacity ⑥ Increase the power capacity or use larger-sized cables ⑦ Improve the fluctuation state of the frequency ⑧ Replace the SF-CA card	M
	Display
	Red

021	INSUFFICIENT VOLTAGE (, ,)
Cause	Type of error
The three-phase input supply voltage has decreased below 160V ($\pm 5V$).	F
	Stopped status
	H
Action	Clearing procedure
Check the input voltage, and then increase it to 200/220V ($+10\%$, -15%).	M
	Display
	Red

022	MOMENTAR, POWER DOWN (, ,)
Cause	Type of error
The supply voltage has decreased below the minimum permissible level temporarily.	
	Stopped status
Action	Clearing procedure
Adjust the power supply.	
	Display
	Red

025	WATCH DOG (, ,)
Cause	Type of error
A malfunction(s) has occurred in the NC, the servo amplifier control card, the internal cables or the connectors.	E
	Stopped status
	H
Action	Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.	M
	Display
	Red

023	ILLEGAL MEMORY 1 (, ,)
Cause	Type of error
A malfunction(s) has occurred in the control card of the servo amplifier, the internal cables or the connectors.	E
	Stopped status
	H
Action	Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.	M
	Display
	Red

026	ILLEGAL MEMORY 2 (, ,)
Cause	Type of error
A malfunction(s) has occurred in the NC, the servo amplifier control card, the internal cables or the connectors.	E
	Stopped status
	H
Action	Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.	M
	Display
	Red

024	EXTERNAL CLOCK MALFUNCTION (, ,)
Cause	Type of error
A malfunction(s) has occurred in the NC, the servo amplifier control card, the internal cables or the connectors.	E
	Stopped status
	H
Action	Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.	M
	Display
	Red

027	MAGNETIC POSITION DETECT MALF (, ,)
Cause	Type of error
A malfunction(s) has occurred either in the detectors (or cables) fitted to the servo motor or in the servo amplifier. Or the machine parameter settings for the servo system include an error(s).	E
	Stopped status
	H
Action	Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.	M
	Display
	Red

028	PRINT CIRCUIT BOARD MALF	(, ,)
Cause		Type of error
A malfunction(s) has occurred in the control card of the servo amplifier.		F
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

031	DETECTING NO SIGNAL 3	(, ,)
Cause		Type of error
A malfunction(s) has occurred either in the detectors (or cables) or the servo amplifier. Or the machine parameter settings for the servo system include an error(s).		C
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

029	DETECTING NO SIGNAL 1	(, ,)
Cause		Type of error
A malfunction(s) has occurred either in the detectors (or cables) fitted to the servo motor or in the servo amplifier. Or the machine parameter settings for the servo system include an error(s).		C
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

032		(, ,)
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

030	DETECTING NO SIGNAL 2	(, ,)
Cause		Type of error
A malfunction(s) has occurred either in the detectors (or cables) or the servo amplifier. Or the machine parameter settings for the servo system include an error(s).		C
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

033	DETECTING NO SIGNAL 5	(, ,)
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

034	BATTERY MALFUNCTION	(, ,)
Cause		Type of error
The absolute-value detector circuit backup battery for the servo amplifier control card has run down.		E
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

037	OVER AMPERE	(, ,)
Cause		Type of error
A ground short or an internal short has occurred to the motor power line. Or an overcurrent has flown through the servo amplifier circuit for more than a certain time.		C
		Stopped status
		H
Action		Clearing procedure
Locate and correct the shorted portion of the motor power line. If the alarm status still persists after that, please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

035	OVER REGENERATION	(, ,)
Cause		Type of error
Acceleration/deceleration has been repeated too many times during rapid feeding.		C
		Stopped status
		H
Action		Clearing procedure
Reduce either the frequency of rapid-feed acceleration/deceleration or the rapid feedrate.		N
		Display
		Red

038	OVER VOLTAGE	(, ,)
Cause		Type of error
The input voltage to the servo amplifier or its internal voltage has become excessively large.		C
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

036	OVER SPEED 1	(, ,)
Cause		Type of error
The maximum permissible speed of motor or detector rotation has been exceeded.		C
		Stopped status
		H
Action		Clearing procedure
Reduce the motor speed. If this does not correct the alarm status, then the detector/cable, the servo amplifier, or the control card is defective; please contact your YAMAZAKI MAZAK products service station.		N
		Display
		Red

039	DATA PARITY	(, ,)
Cause		Type of error
A malfunction(s) has occurred in the NC, the servo amplifier control card, the internal cables or the connectors.		E
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

040	ILLEGAL DATA	(, ,)
Cause		Type of error
A malfunction(s) has occurred in the NC, the servo amplifier control card, the internal cables or the connectors.		E
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

043	EMERGENCY STOP	(, ,)
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

041	TRANSMISSION MALFUNCTION	(, ,)
Cause		Type of error
A malfunction of data transmission between NC and servo system has occurred.		E
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

044	EMERGENCY STOP	(, ,)
Cause		Type of error
Trouble has occurred in the hardware.		E
		Stopped status
		H
Action		Clearing procedure
Turn power off and then back on. If this does not clear the alarm status, please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

042	PARAMETER ERROR	(, ,)
Cause		Type of error
An error(s) is included in the machine parameter settings for the servo system.		E
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		N
		Display
		Red

045	EMERGENCY STOP	(, ,)
Cause		Type of error
The emergency stop button on the operation panel has been pressed.		A
		Stopped status
		H
Action		Clearing procedure
Release the pressed state of the emergency stop button and reset the NC system to its initial state.		M
		Display
		Red

046	EMERGENCY STOP	(, ,)
Cause		Type of error
An external emergency stop signal has been input.		G
		Stopped status
		H
Action		Clearing procedure
Check the robot or other external units.		O
		Display
		Red

049		(, ,)
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

047		(, ,)
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

050		(, ,)
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

048		(, ,)
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

051	FIN OVERHEAT	(, ,)
Cause		Type of error
The fin has become overheated due to operation of the servo amplifier at an output current higher than the rating for the continuous operation.		F
		Stopped status
		H
Action		Clearing procedure
Reduce either the frequency of acceleration/deceleration or the ratio of cutting time.		M
		Display
		Red

052	MOTOR OVERHEAT	(, ,)
Cause		Type of error
The motor has become overheated due to running of the motor at an output higher than the rating for the continuous operation.		F
		Stopped status
		H
Action		Clearing procedure
Reduce either the frequency of acceleration/deceleration or the cutting load.		M
		Display
		Red

055	SERVO LAG EXCESS	(, ,)
Cause		Type of error
The difference of the actual machine position from that ordered by NC is excessively great, a machine collision has occurred, or trouble has occurred in the detector/cable.		E
		Stopped status
		H
Action		Clearing procedure
Release the machine from the collision. If this does not correct the alarm status, please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

053	OVERLOAD 1	(, ,)
Cause		Type of error
The servo motor has been run at an output higher than the rating.		C
		Stopped status
		H
Action		Clearing procedure
Reduce either the frequency of acceleration/deceleration or the cutting load.		N
		Display
		Red

056	EMERGENCY STOP (EXTERNAL)	(, ,)
Cause		Type of error
An emergency stop signal has been input from the NC system or the machine.		E
		Stopped status
		H
Action		Clearing procedure
Check the NC system or the machine, and locate and eliminate the cause of the emergency stop.		M
		Display
		Red

054	OVERLOAD 2	(, ,)
Cause		Type of error
A machine collision has occurred.		C
		Stopped status
		H
Action		Clearing procedure
Remove the collision.		N
		Display
		Red

057	ANOTHER AXIS MALFUNCTION	(, ,)
Cause		Type of error
A malfunction has occurred in the optionally added servo amplifier.		C
		Stopped status
		H
Action		Clearing procedure
Eliminate the cause of the servo amplifier malfunction.		M
		Display
		Red

058	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

059	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

060	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

061	OVER REGENERATION (, ,)	
Cause		Type of error
Acceleration/deceleration has taken place too many times. (This can cause overheating of the regenerative resistor.)		C
		Stopped status
		H
Action		Clearing procedure
Reduce the frequency of rapidfeed acceleration/deceleration or the rapid feedrate.		N
		Display
		Blue

062	OVERLOAD (, ,)	
Cause		Type of error
The continuous rating of the motor has been exceeded. Or an excessive load has been applied to the motor because of hunting, machine collision or some other unusual status.		C
		Stopped status
		H
Action		Clearing procedure
Reduce the motor load. If this does not reset the alarm status, contact your YAMAZAKI MAZAK products service station.		N
		Display
		Red

063	PARAMETER ERROR (, ,)	
Cause		Type of error
An error(s) is included in the machine parameter settings for the servo system.		E
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		N
		Display
		Blue

064	OVERTRAVEL (, ,)
Cause	Type of error
An axis has reached its stroke limit. (Automatic operation cannot be started in this state.)	E
	Stopped status
	H
Action	Clearing procedure
Move the axis in manual operation mode away from the stroke limit. If this has occurred with no axis at its stroke limit, check for a disconnection in the signal line, for a limit switch malfunction, etc.	O
	Display
	Blue

067	SPNDL.CONTL.(CPU)MALFUNCTION (, ,)
Cause	Type of error
During division, a CPU error has occurred because of wrong parameter settings.	
	Stopped status
Action	Clearing procedure
Correct the parameter settings.	
	Display

065	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

068	SPNDL. (INVERTER OVERCURRENT) (, ,)
Cause	Type of error
A current exceeding the required value has flown into the converter because of: (Same as for No. 20.)	D
	Stopped status
	H
Action	Clearing procedure
	M
	Display
	Red

066	SPNDL. CONTRL. (PHASE LACK) (, ,)
Cause	Type of error
One or more of the three phases of the AC power have opened, or fuse F1, F2 or F3 has blown.	D
	Stopped status
	H
Action	Clearing procedure
Check the three-phase power. For blown fuses, check the cause and then replace the fuses.	M
	Display
	Red

069	SPNDL. CONTRL. OVERHEAT (, ,)
Cause	Type of error
The main circuit elements have become overheated because of abnormal increases in ambient temperature, an overload or a cooling fan failure.	D
	Stopped status
	H
Action	Clearing procedure
Eliminate the cause(s).	M
	Display
	Red

070	ABSOLUTE POSITION UNRELIABLE (, ,)
Cause	Type of error
The absolute data has been lost because of a possible abnormal decrease in battery voltage.	C, E
	Stopped status
	Warning
Action	Clearing procedure
After checking the battery, carry out watchdog-type homing operation.	Watchdog-type homing operation
	Display
	Blue

071	LOCAL RAM MALFUNCTION (, ,)
Cause	Type of error
A RAM (random access memory) malfunction has occurred.	E
	Stopped status
	H
Action	Clearing procedure
The MC111 or MC411 card must be replaced. Please contact your YAMAZAKI MAZAK products service station.	M
	Display
	Red

072	2 PORT RAM MALFUNCTION (, ,)
Cause	Type of error
A servo-control RAM (random access memory) malfunction has occurred.	E
	Stopped status
	H
Action	Clearing procedure
The MC111 or MC611 card must be replaced. Please contact your YAMAZAKI MAZAK products service station.	M
	Display
	Red

073	ROM MALFUNCTION (CHECK SUM) (, ,)
Cause	Type of error
A ROM (read only memory) malfunction has occurred.	E
	Stopped status
	H
Action	Clearing procedure
The MC411 card must be replaced. Please contact your YAMAZAKI MAZAK products service station.	M
	Display
	Red

074	BUS ERROR (, ,)
Cause	Type of error
Error has occurred during data transmission between servo-control unit and the amplifier.	E
	Stopped status
	H
Action	Clearing procedure
Turn power off and then back on. If this does not clear the error status, please contact your YAMAZAKI MAZAK products service station.	M
	Display
	Red

075	ADDRESS ERROR	(, ,)
Cause		Type of error
Error has occurred during data transmission between the servo-control unit and the amplifier.		E
		Stopped status
		H
Action		Clearing procedure
Turn power off and then back on. If this does not clear the error status, please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

078	AMPLIFIER NOT EQUIPPED	(, ,)
Cause		Type of error
Amplifier power is not yet turned on. Or no signals are transferred yet.		E
		Stopped status
		H
Action		Clearing procedure
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.		M
		Display
		Red

076	ILLEGAL INSTRUCTION	(, ,)
Cause		Type of error
Error has occurred during data transmission between the servo-control unit and the amplifier.		E
		Stopped status
		H
Action		Clearing procedure
Turn power off and then back on. If this does not clear the error status, please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

079	2 PORT MEMORY PARITY	(, ,)
Cause		Type of error
Servo-related data has been destroyed.		E
		Stopped status
		H
Action		Clearing procedure
Card replacement is required. Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

077	ZERO DIVISION	(, ,)
Cause		Type of error
Error has occurred during data transmission between the servo-control unit and the amplifier.		E
		Stopped status
		H
Action		Clearing procedure
Turn power off and then back on. If this does not clear the error status, please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

080	ILLEGAL INPUT DIMENSION	(, ,)
Cause		Type of error
The units of input are out of the permissible setting range.		E
		Stopped status
		H
Action		Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.		M
		Display
		Red

081	ILLEGAL OUTPUT DIMENSION (, ,)
Cause	Type of error
An illegal value(s) is included in the parameter settings.	E
	Stopped status
	H
Action	Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.	M
	Display
	Red

084	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

082	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

085	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

083	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

086	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

087	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

090	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

088	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

091	ILLEGAT TIME CONST. (FEEDRATE) (, ,)
Cause	Type of error
The necessary time constant is not set. Or the time constant is not an allowable one.	E
	Stopped status
	H
Action	Clearing procedure
Parameter reloading is required. Please contact your YAMAZAKI MAZAK products service station.	N
	Display
	Red

089	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

092	ILLEGAT TIME CONST. (FEEDRATE) (, ,)
Cause	Type of error
The necessary time constant is not set. Or the time constant is not an allowable one.	E
	Stopped status
	H
Action	Clearing procedure
Parameter reloading is required. Please contact your YAMAZAKI MAZAK products service station.	N
	Display
	Red

093	ILLEGAL TIME CONSTANT (, ,)
Cause	Type of error
The necessary time constant is not set. Or the time constant is not an allowable one.	E
	Stopped status
	H
Action	Clearing procedure
Parameter reloading is required. Please contact your YAMAZAKI MAZAK products service station.	N
	Display
	Red

096	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

094	ILLEGAL TIME CONSTANT (, ,)
Cause	Type of error
The necessary time constant is not set. Or the time constant is not an allowable one.	E
	Stopped status
	H
Action	Clearing procedure
Parameter reloading is required. Please contact your YAMAZAKI MAZAK products service station.	N
	Display
	Red

097	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

095	(, ,)
Cause	Type of error
	E
	Stopped status
	H
Action	Clearing procedure
	N
	Display
	Red

098	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

099	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

102	SOFT LIMIT -X		(, ,)
Cause	During NC operation, the operator has input an incorrect data which would cause the machine to overstep the -X limit regulated by parameter.	Type of error	
		A	
		Stopped status	
		K	
Action	Correct the program and other data so that the machine will move within the soft limits.	Clearing procedure	
		P	
		Display	
		Blue	

100	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

103	SOFT LIMIT +Y		(, ,)
Cause	During NC operation, the operator has input an incorrect data which would cause the machine to overstep the +Y limit regulated by parameter.	Type of error	
		A	
		Stopped status	
		K	
Action	Correct the program and other data so that the machine will move within the soft limits.	Clearing procedure	
		P	
		Display	
		Blue	

101	SOFT LIMIT +X		(, ,)
Cause	During NC operation, the operator has input an incorrect data which would cause the machine to overstep the +X limit regulated by parameter.	Type of error	
		A	
		Stopped status	
		K	
Action	Correct the program and other data so that the machine will move within the soft limits.	Clearing procedure	
		P	
		Display	
		Blue	

104	SOFT LIMIT -Y		(, ,)
Cause	During NC operation, the operator has input an incorrect data which would cause the machine to overstep the -Y limit regulated by parameter.	Type of error	
		A	
		Stopped status	
		K	
Action	Correct the program and other data so that the machine will move within the soft limits.	Clearing procedure	
		P	
		Display	
		Blue	

105	SOFT LIMIT +Z	(, ,)
Cause		Type of error
During NC operation, the operator has input an incorrect data which would cause the machine to overstep the +Z limit regulated by parameter.		A
		Stopped status
		K
Action		Clearing procedure
Correct the program and other data so that the machine will move within the soft limits.		P
		Display
		Blue

108	SOFT LIMIT -4th	(, ,)
Cause		Type of error
During NC operation, the operator has input an incorrect data which would cause the machine to overstep the -4th-axis limit regulated by parameter.		A
		Stopped status
		K
Action		Clearing procedure
Correct the program and other data so that the machine will move within the soft limits.		P
		Display
		Blue

106	SOFT LIMIT -Z	(, ,)
Cause		Type of error
During NC operation, the operator has input an incorrect data which would cause the machine to overstep the -Z limit regulated by parameter.		A
		Stopped status
		K
Action		Clearing procedure
Correct the program and other data so that the machine will move within the soft limits.		P
		Display
		Blue

109	SOFT LIMIT +5th	(, ,)
Cause		Type of error
During NC operation, the operator has input an incorrect data which would cause the machine to overstep the +5th-axis limit regulated by parameter.		A
		Stopped status
		K
Action		Clearing procedure
Correct the program and other data so that the machine will move within the soft limits.		P
		Display
		Blue

107	SOFT LIMIT +4th	(, ,)
Cause		Type of error
During NC operation, the operator has input an incorrect data which would cause the machine to overstep the +4th-axis limit regulated by parameter.		A
		Stopped status
		K
Action		Clearing procedure
Correct the program and other data so that the machine will move within the soft limits.		P
		Display
		Blue

110	SOFT LIMIT -5th	(, ,)
Cause		Type of error
During NC operation, the operator has input an incorrect data which would cause the machine to overstep the -5th-axis limit regulated by parameter.		A
		Stopped status
		K
Action		Clearing procedure
Correct the program and other data so that the machine will move within the soft limits.		P
		Display
		Blue

111	SOFT LIMIT +6th	(, ,)
Cause		Type of error
During NC operation, the operator has input an incorrect data which would cause the machine to overstep the +6th-axis limit regulated by parameter.		A
		Stopped status
		K
Action		Clearing procedure
Correct the program and other data so that the machine will move within the soft limits.		P
		Display
		Blue

114	OVER TRAVEL -X	(, ,)
Cause		Type of error
The X-axis has reached its minus (-) stroke limit.		A
		Stopped status
		K
Action		Clearing procedure
Move the axis away from the end in manual operation mode.		P
		Display
		Red

112	SOFT LIMIT -6th	(, ,)
Cause		Type of error
During NC operation, the operator has input an incorrect data which would cause the machine to overstep the -6th-axis limit regulated by parameter.		A
		Stopped status
		K
Action		Clearing procedure
Correct the program and other data so that the machine will move within the soft limits.		P
		Display
		Blue

115	OVER TRAVEL +Y	(, ,)
Cause		Type of error
The Y-axis has reached its plus (+) stroke limit.		A
		Stopped status
		K
Action		Clearing procedure
Move the axis away from the end in manual operation mode.		P
		Display
		Red

113	OVER TRAVEL +X	(, ,)
Cause		Type of error
The X-axis has reached its plus (+) stroke limit.		A
		Stopped status
		K
Action		Clearing procedure
Move the axis away from the end in manual operation mode.		P
		Display
		Red

116	OVER TRAVEL -Y	(, ,)
Cause		Type of error
The Y-axis has reached its minus (-) stroke limit.		A
		Stopped status
		K
Action		Clearing procedure
Move the axis away from the end in manual operation mode.		P
		Display
		Red

117	OVER TRAVEL +Z	(, ,)
Cause		Type of error
The Z-axis has reached its plus (+) stroke limit.		A
		Stopped status
		K
Action		Clearing procedure
Move the axis away from the end in manual operation mode.		P
		Display
		Red

120	OVER TRAVEL -4th	(, ,)
Cause		Type of error
The fourth-axis has reached its minus (-) stroke limit.		A
		Stopped status
		K
Action		Clearing procedure
Move the axis away from the end in manual operation mode.		P
		Display
		Red

118	OVER TRAVEL -Z	(, ,)
Cause		Type of error
The Z-axis has reached its minus (-) stroke limit.		A
		Stopped status
		K
Action		Clearing procedure
Move the axis away from the end in manual operation mode.		P
		Display
		Red

121	OVER TRAVEL +5th	(, ,)
Cause		Type of error
The fifth-axis has reached its plus (+) stroke limit.		A
		Stopped status
		K
Action		Clearing procedure
Move the axis away from the end in manual operation mode.		P
		Display
		Red

119	OVER TRAVEL +4th	(, ,)
Cause		Type of error
The fourth-axis has reached its plus (+) stroke limit.		A
		Stopped status
		K
Action		Clearing procedure
Move the axis away from the end in manual operation mode.		P
		Display
		Red

122	OVER TRAVEL -5th	(, ,)
Cause		Type of error
The fifth-axis has reached its minus (-) stroke limit.		A
		Stopped status
		K
Action		Clearing procedure
Move the axis away from the end in manual operation mode.		P
		Display
		Red

123	OVER TRAVEL +6th (, ,)	
Cause	Type of error	
The sixth-axis has reached its plus (+) stroke limit.	A	
	Stopped status	
	K	
Action	Clearing procedure	
Move the axis away from the end in manual operation mode.	P	
	Display	
	Red	

126	Z AXIS NOT COMPLETED (, ,)	
Cause	Type of error	
During initial reference-point return following the power-on action, an axis has not passed through the Z phase of the corresponding detector.	E	
	Stopped status	
	H	
Action	Clearing procedure	
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.	O	
	Display	
	Red	

124	OVER TRAVEL -6th (, ,)	
Cause	Type of error	
The sixth-axis has reached its minus (-) stroke limit.	A	
	Stopped status	
	K	
Action	Clearing procedure	
Move the axis away from the end in manual operation mode.	S	
	Display	
	Red	

127	ORIGIN RETURN DIR. ILLEGAL AXIS (, ,)	
Cause	Type of error	
The axis-movement direction selected with the axis selector key is not correct for the reference-point return in manual operation mode.	A	
	Stopped status	
	K	
Action	Clearing procedure	
Set the correct direction using the axis selector keys (+, -).	P	
	Display	
	Red	

125	ILLEGAL AXIS EXISTS (, ,)	
Cause	Type of error	
During reference-point return, the proximity-point detection limit switch has overrun the position in which the watchdog is mounted.	E	
	Stopped status	
	H	
Action	Clearing procedure	
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.	O	
	Display	
	Red	

128	OUTSIDE INTERLOCK AXIS (, ,)	
Cause	Type of error	
An axis is interlocked because the interlock function has become active (input signal has turned off).	A	
	Stopped status	
	K	
Action	Clearing procedure	
Clear the active state of the interlock function.	P	
	Display	
	Red	

129	INSIDE INTERLOCK AXIS	(, ,)
Cause		Type of error
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.		A
		Stopped status
		K
Action		Clearing procedure
Deactive the servo-off function.		P
		Display
		Red

132	EXTERNAL FEEDRATE ZERO	(, ,)
Cause		Type of error
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.		A
		Stopped status
		K
Action		Clearing procedure
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.		P
		Display
		Blue

130	NO OPERATE MODE	(, ,)
Cause		Type of error
This message is displayed in the event of incorrect mode selection or a mode selector switch malfunction.		A
		Stopped status
		K
Action		Clearing procedure
In the latter case, check the wiring of the mode selector switches.		P
		Display
		Red

133	STOP SPINDLE	(, ,)
Cause		Type of error
Spindle rotation did not start when the spindle rotation start command was issued during automatic operation.		D
		Stopped status
		K
Action		Clearing procedure
The spindle amplifier and the encoder must be checked for normal operation. Please contact your YAMAZAKI MAZAK products service station.		N
		Display
		Red

131	CUTTING FEED OVERRIDE ZERO	(, ,)
Cause		Type of error
The cutting-feed override value is set to 0 on the machine operation panel.		A
		Stopped status
		K
Action		Clearing procedure
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.		P
		Display
		Blue

134	SPINDLE ROTATE NO. OVER	(, ,)
Cause		Type of error
The spindle-speed limit has been exceeded.		D
		Stopped status
		K
Action		Clearing procedure
Reduce the spindle speed. The spindle amplifier must be checked for normal operation. Please contact your YAMAZAKI MAZAK products service station.		N
		Display
		Red

135	BLOCK START INTERLOCK (, ,)
Cause	Type of error
The interlock signal to lock the start of the program block has been input.	B
	Stopped status
	K
Action	Clearing procedure
The sequence program needs checking for normal functioning. Please contact your YAMAZAKI MAZAK products service station.	N
	Display
	Red

138	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

136	CUTTING BLOCK START INTERLOCK (, ,)
Cause	Type of error
The interlock signal to lock the start of the cutting program block has been input.	B
	Stopped status
	K
Action	Clearing procedure
The sequence program needs checking for normal functioning. Please contact your YAMAZAKI MAZAK products service station.	N
	Display
	Red

139	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

137	OVER DYNAMIC COMPENSATION (, ,)
Cause	Type of error
Dynamic compensation amount exceeded 3 mm.	A
	Stopped status
	K
Action	Clearing procedure
Make sure that the workpiece coordinate zero point is centrally positioned in the workpiece, and set the difference between the center of the workpiece and the rotary center of the table to 3 mm or less.	P
	Display
	Red

140	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

141	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

192	EXECUTION IMPOSSIBLE (WNO.,UNO.,SNO.)
Cause	Type of error
An internal error(s) has occurred during execution of the MMS unit.	E
	Stopped status
	L
Action	Clearing procedure
After checking the entire data of the program being executed, tool data, tool file, parameters, etc., save the data using the CMT I/O and then contact your YAMAZAKI MAZAK products service station.	S
	Display
	Blue

190	ILLEGAL DRUM NO. (WNO.,UNO.,SNO.)
Cause	Type of error
The drum number settings on the POSITION or COMMAND display do not agree with the machine specifications or machine status.	B
	Stopped status
	L
Action	Clearing procedure
Set the drum number appropriate to the machine status using the drum-number setting function of MDI-operation mode.	S
	Display
	Blue

193	NO TOOL IN MAGAZINE (WNO.,UNO.,SNO.)
Cause	Type of error
Tool data that correspond to the pocket numbers being displayed in the "TNO." item of the POSITION or COMMAND display are unregistered.	B
	Stopped status
	L
Action	Clearing procedure
Register the tool data.	S
	Display
	Blue

191	FILE SYSTEM I/O ERROR (WNO.,UNO.,SNO.)
Cause	Type of error
An internal error(s) has occurred during program data change by the function of VFC, MMS etc.	E
	Stopped status
	L
Action	Clearing procedure
After checking the entire data of the program being executed, tool data, tool file, parameters, etc., save the data using the CMT I/O and then contact your YAMAZAKI MAZAK products service station.	S
	Display
	Blue

194	NO TOOL DATA IN PROGRAM (WNO.,UNO.,SNO.)
Cause	Type of error
An internal error(s) has occurred when circumferential speed or feedrate changing by VFC function was under way.	E
	Stopped status
	L
Action	Clearing procedure
After checking the entire data of the program being executed, tool data, tool file, parameters, etc., save the data using the CMT I/O and then contact your YAMAZAKI MAZAK products service station.	S
	Display
	Blue

195	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

198	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

196	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

199	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

197	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

400	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

403	PROGRAM TOO LARGE	(, ,)
Cause		Type of error
	The limit of 250 lines per program has been exceeded.	A
		Stopped status
		L
Action		Clearing procedure
	Recreate the program so that it consists of 250 lines or less.	S
		Display
		Blue

401	ILLEGAL FORMAT	(, ,)
Cause		Type of error
	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.	A
		Stopped status
		L
Action		Clearing procedure
	Press the clear key and then input correct data.	S
		Display
		Blue

404	MEMORY CAPACITY EXCEED	(, ,)
Cause		Type of error
	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	A
	② Additional preparation of process control data is no longer possible since 100 sets of such data have already been stored.	Stopped status
	③ Additional preparation of program layout data is no longer possible since 1000 sets of such data have already been stored.	L
Action		Clearing procedure
	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.	S
		Display
		Blue

402	ILLEGAL NUMBER INPUT	(, ,)
Cause		Type of error
	① The work number of a display inhibiting program was specified.	A
	② The numeric value that has been input is out of the allowable range.	Stopped status
		L
Action		Clearing procedure
	① The operation concerned cannot be performed for the program of display inhibition (Program management function).	S
	② Press the clear key and then input correct data.	Display
		Blue

405	(. .)	
Cause	Type of error	
	Stopped status	
Action	Clearing procedure	
	Display	

407	DESIGNATED DATA NOT FOUND (. .)	
Cause	Type of error	
The number or character string that has been designated does not exist in the program.	A	
	Stopped status	
	L	
Action	Clearing procedure	
Designate an existent number or character string.	S	
	Display	
	Blue	

406	MEMORY PROTECT (. .)	
Cause	Type of error	
① Inhibiting operation (editing, erasing, renumber 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 "in order of tool name" operations while the spindle has a mounted tool(s).	A	
	Stopped status	
	L	
Action	Clearing procedure	
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(s) from the spindle and then carry out the operations once again.	S	
	Display	
	Blue	

408	PROGRAM ERROR (. .)	
Cause	Type of error	
The memory contents in the machining-program data storage area have been destroyed.	A	
	Stopped status	
	L	
Action	Clearing procedure	
Delete the corresponding program.	S	
	Display	
	Blue	

409	ILLEGAL INSERTION (. .)	
Cause	Type of error	
Program data insertion is not possible.	A	
	Stopped status	
	L	
Action	Clearing procedure	
It is not possible to insert data before the common program unit.	S	
	Display	
	Blue	

410	ILLEGAL DELETION (, ,)	
Cause	Program deletion is not possible.	Type of error
		A
		Stopped status
		L
Action	It is not possible to delete the common unit.	Clearing procedure
		S
		Display
		Blue

411	STOP POWER IN PROGRAM EDITING (, ,)		
Cause	A portion of the program may have been destroyed because power has been turned off during program editing.	Type of error	
		A	
		Stopped status	
		L	
Action	Check the corresponding program for incorrect data, and correct the program data if an error(s) exists in it.	Clearing procedure	
		S	
		Display	
		Blue	

414	AUTO CALCULATION IMPOSSIBLE (, ,)		
Cause	Automatic calculation of circumferential speed and feedrate is not possible.	Type of error	
		A	
		Stopped status	
		L	
Action	Check and correct the tool sequence data or machining unit of the program.	Clearing procedure	
		S	
		Display	
		Blue	

412	WPC NESTING OVER		(, ,)
Cause	The number of repeats of subprogram nesting has exceeded nine times.	Type of error	
		A	
		Stopped status	
		L	
Action	Correct the program so that the total number of repeats of subprogram nesting becomes nine or less.	Clearing procedure	
		S	
		Display	
		Blue	

415	(, ,)		
Cause		Type of error	
		Stopped status	
Action		Clearing procedure	
		Display	

413	PROGRAM OVER (, ,)	
Cause	The program registration has exceeded its maximum value available (up to 32 or 256 programs, depending on the type of model).	Type of error
		A
		Stopped status
		L
Action	Delete an unnecessary program(s) from the memory, or save all the necessary programs onto an external storage and then delete an unnecessary program.	Clearing procedure
		S
		Display
		Blue

416	AUTO PROCESS DIA EXCEED		(, ,)
Cause	Tools cannot be automatically developed because of errors of the machining-unit data.	Type of error	
		A	
		Stopped status	
		L	
Action	Check and correct the machining-unit data.	Clearing procedure	
		S	
		Display	
		Blue	

417	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

418	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

419	AUTO TAP PROCESS IMPOSSIBLE (, ,)	
Cause		Type of error
The pitch or other data cannot be automatically set because of incorrectness of the tap nominal diameter in the tapping-unit data.		A
		Stopped status
		L
Action		Clearing procedure
Check and correct the tapping-unit data and tapping-tool sequence data of the program.		S
		Display
		Blue

420	DESIGNATION OVERLAP (, ,)	
Cause		Type of error
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		A
		Stopped status
		L
Action		Clearing procedure
Check and correct the data settings.		S
		Display
		Blue

421	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

422	MEMORY PROTECT (I/O BUSY) (, ,)	
Cause		Type of error
An attempt has been made to edit or input the machining program, tool data, etc. during I/O operation.		A
		Stopped status
		L
Action		Clearing procedure
Wait until the I/O operation is completed, and then repeat the editing or input operation from the beginning.		S
		Display
		Blue

423	EXCEEDED MAX NUMBER OF TOOLS (, ,)
Cause	Type of error
During tool layout, the number of tools used in the designated program has exceeded the maximum available number per drum.	A
	Stopped status
	L
Action	Clearing procedure
Check and correct the corresponding machining program so that the maximum number of tools available for the drum is not exceeded.	S
	Display
	Blue

426	PROGRAM DATA MISSING (, ,)
Cause	Type of error
The tool sequence data cannot be automatically developed because of partial lack of the machining-unit data.	A
	Stopped status
	L
Action	Clearing procedure
Fill up all the machining-unit data items with data.	S
	Display
	Blue

424	ALL POCKET NO.S NOT ASSIGNED (, ,)
Cause	Type of error
It is not possible to finish the tool layout operation because the pocket number has not yet been assigned to all the required tools.	A
	Stopped status
	L
Action	Clearing procedure
Assign the pocket number(s) and then finish the tool layout operation.	S
	Display
	Blue

427	MEMORY PROTECT (AUTO MODE) (, ,)
Cause	Type of error
An attempt has been made to input a tool tip current-position counter value in the automatic operation mode.	A
	Stopped status
	L
Action	Clearing procedure
Change the mode over to the manual mode, and then input a tool tip current-position counter value.	S
	Display
	Blue

425	DATA MISSING (, ,)
Cause	Type of error
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 IN OUT (CMT) display. ② The data to be input for restart operation is wanting.	A
	Stopped status
	L
Action	Clearing procedure
Input data correctly.	S
	Display
	Blue

428	MEMORY PROTECT (AUTO OPERAT.) (, ,)
Cause	Type of error
An attempt has been made to input unallowable data on a display (such as the TOOL DATA display) during automatic operation.	A
	Stopped status
	L
Action	Clearing procedure
Input allowable data only after placing the NC equipment in its reset state or after changing the current mode over to another mode.	S
	Display
	Blue

429	MEASURING NOT ALLOWED	(, ,)
Cause		Type of error
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.		A
		Stopped status
		L
Action		Clearing procedure
Set the specified conditions and then make the measurement.		S
		Display
		Blue

430	ILLEGAL TOOL DESIGNATED	(, ,)
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

431	ILLEGAL PALLET NO.	(, ,)
Cause		Type of error
A nonexistent pallet number has been designated.		A
		Stopped status
		L
Action		Clearing procedure
Designate a correct pallet number.		S
		Display
		Blue

432	ILLEGAL TOOL NO.	(, ,)
Cause		Type of error
A nonexistent tool number has been designated.		A
		Stopped status
		L
Action		Clearing procedure
Designate a correct tool number.		S
		Display
		Blue

433	SAME PROGRAM EXISTS	(, ,)
Cause		Type of error
The number of the machining program that has been designated for program reading from an external unit already exists within the NC memory.		A
		Stopped status
		L
Action		Clearing procedure
Check the number of the machining program.		S
		Display
		Blue

434	NO ASSIGNED TOOL IN TOOL FILE (, ,)	
Cause	The tools that have been designated on the machining program (face-mills, end-mills, chamfering cutters, and ball end-mills) include a one(s) that is not yet registered in the TOOL FILE display.	Type of error
		A
		Stopped status
		L
Action	Register the corresponding tools in the TOOL FILE display.	Clearing procedure
		S
		Display
		Blue

437	NO NOM.-DIA DATA IN PROGRAM (, ,)	
Cause	It has been found during tool layout that there is a tool without a nominal diameter in the designated program.	Type of error
		A
		Stopped status
		L
Action	Check if nominal diameters have been assigned to all tools registered in the designated program.	Clearing procedure
		S
		Display
		Blue

435	PROGRAM CHECK NOT ALLOWED (, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

438	NOT FOUND END UNIT (, ,)	
Cause	The end unit is not included in the machining program.	Type of error
		A
		Stopped status
		L
Action	Create the end unit at the end of the program.	Clearing procedure
		S
		Display
		Blue

436	DESIGN. T-NO. NOT MEASURABLE (, ,)	
Cause	An unregistered tool number has been designated in the automatic tool-length measurement mode.	Type of error
		A
		Stopped status
		L
Action	Designate a tool number registered in the TOOL DATA display.	Clearing procedure
		S
		Display
		Blue

439	MAZATROL PROGRAM DESIGNATED (, ,)	
Cause	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.	Type of error
		A
		Stopped status
		L
Action	No MAZATROL programs can be designated for tape punching machine or during EIA/ISO program editing.	Clearing procedure
		S
		Display
		Blue

440	EIA/ISO PROGRAM DESIGNATED (, ,)
Cause	Type of error
① The machining program that has been designated on the TOOL LAYOUT or PROCESS WORK display is an EIA/ISO program. ② An EIA/ISO program has been designated for copying purposes during MAZATROL program editing.	A
	Stopped status
	L
Action	Clearing procedure
No EIA/ISO programs can be designated during MAZATROL program editing on the TOOL LAYOUT or PROCESS WORK display.	S
	Display
	Blue

443	HELP IS AVLBL FOR PRCS UNIT ONLY (, ,)
Cause	Type of error
The help (DETAILED INFORM.) display can be called only for machining units.	A
	Stopped status
	L
Action	Clearing procedure
Move the cursor to a machining-unit data item, and then call the DETAILED INFORM. display.	S
	Display
	Blue

441	ILLEGAL DRUM NO. (, ,)
Cause	Type of error
A nonexistent drum number has been designated.	A
	Stopped status
	L
Action	Clearing procedure
Designate a correct drum number.	S
	Display
	Blue

444	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

442	DATA RENEWAL NOT ALLOWED (, ,)
Cause	Type of error
No updates can be made to the machining program.	A
	Stopped status
	L
Action	Clearing procedure
This message may also be displayed when the NC equipment is busy processing data. Press the clear key and then carry out the operation.	S
	Display
	Blue

445	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

446	RESTART TIMES OVER	(, ,)
Cause		Type of error
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.		A
		Stopped status
		L
Action		Clearing procedure
Check the number of times of reappearance of the block.		S
		Display
		Blue

449	RESTART SEARCH FINISHED	(, ,)
Cause		Type of error
An attempt has been made to carry out another search operation when EIA/ISO restart searching had already been finished.		A
		Stopped status
		L
Action		Clearing procedure
Press the reset key and then carry out the restart operation once again.		S
		Display
		Blue

447	PROGRAM ERROR	(, ,)
Cause		Type of error
A program error(s) has occurred during EIA/ISO restart search.		A
		Stopped status
		L
Action		Clearing procedure
The program being searched for includes an error(s). Perform a tool-path check upon the program contents.		S
		Display
		Blue

450		(, ,)
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

448	RESTART SEARCH UNFINISHED	(, ,)
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

451	DRUM CHANGE UNIT MISSING	(, ,)
Cause		Type of error
The drum change unit is not included in the machining program that is to be run on a machine provided with a drum changer (option).		A
		Stopped status
		L
Action		Clearing procedure
Check the contents of the machining program, and then set the drum change unit in it.		S
		Display
		Blue

452	NO SHAPE DATA IN THE UNIT (, ,)	
Cause		Type of error
No shape data exists in the program unit that has been designated in an attempt to make a copy of shape data.		A
		Stopped status
		L
Action		Clearing procedure
Check the contents of the program unit to be made a copy of shape.		S
		Display
		Blue

455	SAME PROGRAM APPOINT (, ,)	
Cause		Type of error
The machining program currently being edited has been appointed for the particular program copying operation.		A
		Stopped status
		L
Action		Clearing procedure
Copying within the same program is not possible. Check the designated program number.		S
		Display
		Blue

453	SELECTED SHAPE INADEQUATE (, ,)	
Cause		Type of error
An attempt has been made to copy shape data whose type is not available for the particular program unit.		A
		Stopped status
		L
Action		Clearing procedure
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.		S
		Display
		Blue

456	NO TOOL IN SPINDLE (, ,)	
Cause		Type of error
The spindle does not currently have a tool mounted on it.		A
		Stopped status
		L
Action		Clearing procedure
After mounting a tool on the spindle, carry out the particular operation once again.		S
		Display
		Blue

454	CURSOR POSITION INADEQUATE (, ,)	
Cause		Type of error
Processing not permissible for the current cursor position has been attempted. (Example) An attempt has been made to carry out a shape copying operation with the cursor on the tool sequence line.		A
		Stopped status
		L
Action		Clearing procedure
		S
		Display
		Blue

457	NOT FOUND ADDRESS OF DATA (, ,)	
Cause		Type of error
During execution of manual program unit, data setting has been attempted without addressing.		A
		Stopped status
		L
Action		Clearing procedure
During execution of the manual program, designate an address before a setting data.		S
		Display
		Blue

458	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

459	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

500	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

503	LOAD IMPOSSIBLE (TOO MANY) (WNO., ,)	
Cause		Type of error
An attempt has been made to load more machining programs than the maximum number of programs that can be registered within the NC system.		A
		Stopped status
		L
Action		Clearing procedure
Delete unnecessary programs, or save the programs onto an external storage and then delete them. After that, load the particular program.		S
		Display
		Blue

501	ILLEGAL FORMAT (, ,)	
Cause		Type of error
A cassette tape or floppy disk that contains data other than M2 or M32 data has been set.		A
		Stopped status
		L
Action		Clearing procedure
Set the cassette tape or floppy disk that contains M2 or M32 data.		S
		Display
		Blue

504	LOAD IMPOSSIBLE (AUTO OPE.) (, ,)	
Cause		Type of error
An attempt has been made during automatic operation to load data other than machining programs.		A
		Stopped status
		L
Action		Clearing procedure
Load the data only after completion of automatic operation.		S
		Display
		Blue

502	LOAD IMPOSSIBLE (SIZE OVER) (WNO., ,)	
Cause		Type of error
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.)		A
		Stopped status
		L
Action		Clearing procedure
Either use another cassette tape (or floppy disk) or save the program data. After that, carry out a load operation once again.		S
		Display
		Blue

505	LOAD IMPOSSIBLE (MISMATCH) (, ,)	
Cause		Type of error
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, drum conditions, etc)		A
		Stopped status
		L
Action		Clearing procedure
Check if the data saved on the cassette tape or floppy disk is the data to be used for the machine currently in operation.		S
		Display
		Blue

506	SAME PROGRAM APPOINT (WNO., ,)
Cause	Type of error
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.	A
	Stopped status
	L
Action	Clearing procedure
Check for an overlapping work numbers.	S
	Display
	Blue

509	MEMORY PROTECT (, ,)
Cause	Type of error
Loading has been attempted when the PROGRAM LOCK/ENABLE switch setting was LOCK.	A
	Stopped status
	L
Action	Clearing procedure
Set the switch to ENABLE, and then carry out the loading operation.	S
	Display
	Blue

507	NO DESIGNATED PROGRAM (WNO., ,)
Cause	Type of error
The machining program whose saving onto CMT has been attempted does not exist in the NC system.	A
	Stopped status
	L
Action	Clearing procedure
Check if the machining program with the specified work number exists in the NC system.	S
	Display
	Blue

510	CONTENTS ARE NOT COINCIDENT (WNO., ,)
Cause	Type of error
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.	A
	Stopped status
	L
Action	Clearing procedure
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.	S
	Display
	Blue

508	MEMORY CAPACITY EXCEEDED (WNO., ,)
Cause	Type of error
An attempt has been made to load more machining programs than the maximum number of programs that can be registered within the NC system.	A
	Stopped status
	L
Action	Clearing procedure
Delete unnecessary programs, or save the programs onto an external storage and then delete them. After that, load the particular program.	S
	Display
	Blue

511	DATA ARE NOT COINCIDENT (WNO.,UNO.,SNO.)	
Cause		Type of error
Comparison between the cassette tape or floppy disk contents and the NC data settings has shown several disparities. Note) For EIA/ISO programs, the number displayed in the UNO. position is a line number, which corresponds to the number displayed at the lower right corner of the WK. PROGRAM display.		A
		Stopped status
		L
Action		Clearing procedure
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.		S
		Display
		Blue

512	DESIGNATED FILE NOT FOUND (WNO., ,)	
Cause		Type of error
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.		A
		Stopped status
		L
Action		Clearing procedure
Carry out a DIRECTORY operation to check what type of data is stored on the cassette tape or floppy disk.		S
		Display
		Blue

513	PROG. SOFTWARE NOT COINCIDENT (, ,)	
Cause		Type of error
An attempt has been made to load a machining program different in structure from the programs within the NC memory.		A
		Stopped status
		L
Action		Clearing procedure
Check if the contents of the cassette tape or floppy disk are for M32 or M2.		S
		Display
		Blue

514	DESIGNATED DATA NOT COINCIDENT (, ,)	
Cause		Type of error
An attempt has been made to load data (other than machining program data) that differs in structure from the NC memory data.		A
		Stopped status
		L
Action		Clearing procedure
Check if the contents of the cassette tape or floppy disk are for M32 or for the machine being used.		S
		Display
		Blue

515	CMT MIS-CONNECTED (, ,)
Cause	Type of error
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.	G
	Stopped status
	L
Action	Clearing procedure
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: G1) ④ For microdisk unit, check if the floppy disk is correctly set.	S
	Display
	Blue

516	SYSTEM ERROR (, ,)
Cause	Type of error
An error has occurred within the system.	E
	Stopped status
	L
Action	Clearing procedure
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.)	S
	Display
	Blue

517	PROG.OPERATION NOT ALLOWED (WNO., ,)
Cause	Type of error
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).	A
	Stopped status
	L
Action	Clearing procedure
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).	S
	Display
	Blue

518	DATA OPERATION NOT ALLOWED (, ,)
Cause	Type of error
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.	A
	Stopped status
	L
Action	Clearing procedure
Wait until automatic operation has been completed (or until the loading or saving operation using another I/O unit has been completed).	S
	Display
	Blue

519	DATA SIZE OVER (WNO.,Note.,)
Cause	Type of error
<p>The EIA/ISO machining program includes a block that consists of more than 256 characters. (EOB or EOR does not appear within 256 characters.)</p> <p>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 WK. PROGRAM display.</p>	A
	Stopped status
	L
Action	Clearing procedure
<p>Correct the EIA/ISO machining program. (Insert EOB within 256 characters.)</p>	S
	Display
	Blue

520	MEMORY CAPACITY EXCEEDED (WNO., ,)
Cause	Type of error
<p>The tape end has been reached before saving onto the cassette tape or floppy disk was completed.</p>	G
	Stopped status
	L
Action	Clearing procedure
<p>Divide the data into two segments, and resave the particular data segment onto the cassette tape or floppy disk.</p>	S
	Display
	Blue

521	CMT MIS-EQUIPPED (, ,)
Cause	Type of error
<p>The cassette tape unit is not loaded.</p>	A
	Stopped status
	L
Action	Clearing procedure
<p>Load a cassette tape correctly into the tape unit.</p>	S
	Display
	Blue

522	NO OPERABLE DATA IN CMT (, ,)
Cause	Type of error
<p>An M2-use cassette tape or floppy disk was used, but it contained no machining programs. (Only machining programs can be loaded from cassette tape or floppy disk for M2.)</p>	A
	Stopped status
	L
Action	Clearing procedure
<p>No machining programs are registered within the M2-use cassette tape or floppy disk. Check this state on MAZATROL M2.</p>	S
	Display
	Blue

523	CMT I/O ERROR (, ,)
Cause	Type of error
<p>A hardware error has occurred in the CMT or microdisk unit.</p>	G
	Stopped status
	L
Action	Clearing procedure
<p>Check the CMT or microdisk unit baudrate setting (RS-232C setting parameter), and replace the cassette tape or floppy disk.</p>	S
	Display
	Blue

524	CMT WRITE PROTECT	(, ,)
Cause		Type of error
Data saving onto a write-protected cassette tape or floppy disk has been attempted.		A
		Stopped status
		L
Action		Clearing procedure
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.)		S
		Display
		Blue

525	STOP POWER IN CMT ACTION	(, ,)
Cause		Type of error
Power has been turned off during operation of the CMT or microdisk unit.		A
		Stopped status
		L
Action		Clearing procedure
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.		S
		Display
		Blue

526	CMT MALFUNCTION	(, ,)
Cause		Type of error
Data cannot be read because of the presence of check sum errors, for example, within the cassette tape or floppy disk contents.		G
		Stopped status
		L
Action		Clearing procedure
Reread the data only after setting a new cassette tape or floppy disk or after saving the corresponding data.		S
		Display
		Blue

527		(, ,)
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

528	NO EIA/ISO OPTION	(, ,)
Cause		Type of error
An attempt has been made to load an EIA/ISO program although the EIA/ISO option is not provided.		A
		Stopped status
		L
Action		Clearing procedure
Provide the NC equipment with an EIA/ISO option. (Only with this option, can EIA/ISO programs be processed.)		S
		Display
		Blue

529	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

532	LOAD IMPOSSIBLE (SIZE OVER) (, ,)	
Cause		Type of error
The contents of the paper tape or floppy disk are not correct.		A
		Stopped status
		L
Action		Clearing procedure
Use an appropriate type of paper tape or floppy disk. Or punch the data once again.		S
		Display
		Blue

530	NO TAPE READER PUNCHER OPTION (, ,)	
Cause		Type of error
An attempt has been made to carry out a tape I/O operation although the tape reader/puncher option is not provided.		A
		Stopped status
		L
Action		Clearing procedure
Provide the NC system with a tape reader/puncher option. (Only with this option, can tape I/O operations be carried out.)		S
		Display
		Blue

533	LOAD IMPOSSIBLE (TOO MANY) (WNO., ,)	
Cause		Type of error
An attempt has been made to load more machining programs than the maximum number of programs that can be registered within the NC system.		A
		Stopped status
		L
Action		Clearing procedure
Delete unnecessary programs, or save the programs onto an external storage and then delete them. After that, load the particular program.		S
		Display
		Blue

531	ILLEGAL FORMAT (, ,)	
Cause		Type of error
Paper tape with a format unavailable on M32 was used.		A
		Stopped status
		L
Action		Clearing procedure
Punch the paper tape into a format available on M32.		S
		Display
		Blue

534	LOAD IMPOSSIBLE (AUTO OPE.) (, ,)	
Cause		Type of error
An attempt has been made during automatic operation to load data other than machining programs.		A
		Stopped status
		L
Action		Clearing procedure
Load such data only after completion of automatic operation.		S
		Display
		Blue

535	STOP POWER IN TAPE READ PUNCH (, ,)
Cause	Type of error
Power has been turned off during operation of the tape reader/puncher or microdisk unit.	A
	Stopped status
	L
Action	Clearing procedure
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.	S
	Display
	Blue

538	MEMORY CAPACITY EXCEEDED (WNO., ,)
Cause	Type of error
An attempt has been made to load more machining programs than the maximum number of programs that can be registered within the NC system.	A
	Stopped status
	L
Action	Clearing procedure
Delete unnecessary programs, or save the programs onto an external storage and then delete them. After that, load the particular program.	S
	Display
	Blue

536	SAME PROGRAM APPOINT (WNO., ,)
Cause	Type of error
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.	A
	Stopped status
	L
Action	Clearing procedure
Check for an overlapping work number.	S
	Display
	Blue

539	MEMORY PROTECT (, ,)
Cause	Type of error
Loading has been attempted when the PROGRAM LOCK/ENABLE switch setting was LOCK.	A
	Stopped status
	L
Action	Clearing procedure
Set the switch to ENABLE, and then carry out the loading operation.	S
	Display
	Blue

537	NO DESIGNATED PROGRAM (WNO., ,)
Cause	Type of error
The machining program whose punching or saving onto paper tape or CMT has been attempted does not exist in the NC system.	A
	Stopped status
	L
Action	Clearing procedure
Check if the machining program with the specified work number exists in the NC system.	S
	Display
	Blue

540	CONTENTS ARE NOT COINCIDENT (WNO., ,)	
Cause		Type of error
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. This alarm state occurs if a COMPARE operation is carried out after punching a machining program that does not have end M codes (M02, M30, M99) or a machining program that contains data preceded by these end M codes.		A
		Stopped status
		L
Action		Clearing procedure
After specifying the end M codes, correct the machining program so that the codes cannot be followed by data. If the end M codes are to be followed by data, specify end M code nullification under parameter G50.		S
		Display
		Blue

541	DATA ARE NOT COINCIDENT (WNO.,Note.,)	
Cause		Type of error
Comparison between the cassette tape or floppy disk contents and the NC memory has shown several disparities. Note) The number displayed next to the work number is a line number, which corresponds to the number displayed at the lower right corner of the WK. PROGRAM display.		A
		Stopped status
		L
Action		Clearing procedure
After correcting the disparities within the machining program, make the comparison once again.		S
		Display
		Blue

542	NO DESIGNATED PROGRAM (WNO., ,)	
Cause		Type of error
The machining program or data that has been designated for the LOAD or COMPARE operation does not exist within the cassette tape or floppy disk.		A
		Stopped status
		L
Action		Clearing procedure
Carry out an ALL LOAD operation to check the contents of the machining program stored on the cassette tape or floppy disk.		S
		Display
		Blue

543	DESIGNATED DATA IS NOT RIGHT (, ,)	
Cause		Type of error
The designated search data is not correct (when EOB has been set in the search data). Or REWIND has been designated although the rewind option is not provided.		A
		Stopped status
		L
Action		Clearing procedure
① Check if the search data is correct. ② Check if the rewind parameters (G39, G48) are correct. Note, however, that REWIND is possible only for a tape reader provided with a rewind option.		S
		Display
		Blue

544	TAPE READER MIS-CONNECTED (, ,)	
Cause		Type of error
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.		G
		Stopped status
		L
Action		Clearing procedure
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.		S
		Display
		Blue

545	TAPE PUNCHER MIS-CONNECTED (, ,)	
Cause		Type of error
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.		G
		Stopped status
		L
Action		Clearing procedure
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.		S
		Display
		Blue

546	SYSTEM ERROR (, ,)	
Cause		Type of error
An error has occurred within the system.		E
		Stopped status
		L
Action		Clearing procedure
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.)		S
		Display
		Blue

547	PROG.OPERATION NOT ALLOWED (WNO., ,)	
Cause		Type of error
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).		A
		Stopped status
		L
Action		Clearing procedure
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).		S
		Display
		Blue

548	NO EIA/ISO OPTION (, ,)	
Cause		Type of error
An attempt has been made to load an EIA/ISO program although the EIA/ISO option is not provided.		A
		Stopped status
		L
Action		Clearing procedure
Provide the NC system with an EIA/ISO option. (Only with this option, can EIA/ISO programs be processed.)		S
		Display
		Blue

549	DATA SIZE OVER (WNO.,Note.,)
Cause	Type of error
<p>The machining program includes a block that consists of more than 256 characters. (EOB or EOR does not appear within 256 characters.)</p> <p>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 WK. PROGRAM display.</p>	A
	Stopped status
	L
	Clearing procedure
<p>Action</p> <p>Correct the machining program. (Insert EOB within 256 characters.)</p>	S
	Display
	Blue

550	NOT FOUND WNO. ON PAPER TAPE (, ,)
Cause	Type of error
<p>Loading or comparing is not possible since no O numbers (work numbers) are stored on the paper tape or floppy disk.</p>	A
	Stopped status
	L
<p>Action</p> <p>Call the TAPE I/O display and designate a work number(s).</p>	Clearing procedure
	S
	Display
	Blue


551	SET THE NEW PAPER TAPE (, ,)
Cause	Type of error
<ul style="list-style-type: none"> - The tape reader/puncher is not correctly loaded with paper tape. - Differences in baud-rate or other parameter settings for RS-232C exist between the tape reader/puncher (or microdisk unit) and the NC system. 	A
	Stopped status
	L
<p>Action</p> <p>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. (Parameters for the NC system: G19 ~ G54)</p>	Clearing procedure
	S
	Display
	Blue

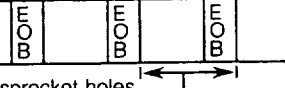
552	(, ,)
Cause	Type of error
	Stopped status
<p>Action</p>	Clearing procedure
	Display

553	TAPE READER ERROR (, ,)
Cause	Type of error
<p>A hardware error has occurred in the tape reader or the microdisk unit.</p>	G
	Stopped status
	L
<p>Action</p> <p>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.</p>	Clearing procedure
	S
	Display
	Blue

554	TAPE PUNCHER ERROR (, ,)	
Cause	A hardware error has occurred in the tape puncher or the microdisk unit.	Type of error
		G
		Stopped status
Action	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.	L
		Clearing procedure
		S
		Display
		Blue

555	MAZATROL PROGRAM DESIGNATED (, ,)	
Cause	An attempt has been made to punch a MAZATROL program onto paper tape.	Type of error
		A
		Stopped status
Action	Designate an EIA/ISO program. (Only EIA/ISO programs can be punched on paper tape.)	L
		Clearing procedure
		S
		Display
		Blue

556	PARITY H ERROR (, ,)	
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>	Type of error
		A
		Stopped status
		L
Action	Reading must be carried out only after replacing the paper tape or floppy disk or after repunching the program.	Clearing procedure
		S
		Display
		Blue

557	PARITY V ERROR (, ,)	
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>	Type of error
		A
		Stopped status
Action	Reading is made possible by invalidating the parity-V check parameter setting (G43, bit 1).	L
		Clearing procedure
		S
		Display
		Blue

558	PROGRAM END NOT FOUND (, ,)	
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. The end-of-program condition can be changed by varying the settings of the parameters (G47/G50).</p>	Type of error
		A
		Stopped status
		L
Action	Since the machining program has already been loaded, the WK. PROGRAM display must be called and then one of the above three end M codes must be inserted in the program.	Clearing procedure
		S
		Display
		Blue

559	DESIGNATED DATA NOT FOUND (, ,)
Cause	Type of error
The designated data was not found on the paper tape or floppy disk.	A
	Stopped status
	L
Action	Clearing procedure
Select another set of data or make a search once again from the beginning of the paper tape or floppy disk.	S
	Display
	Blue

562	NO DESIGNATED PROGRAM (WNO. , ,)
Cause	Type of error
The machining program corresponding to the specified work number does not exist within the NC system.	A
	Stopped status
	L
Action	Clearing procedure
Check if the machining program with the specified work number exists within the NC system.	S
	Display
	Blue

560	NO PRINTER OPTION (, ,)
Cause	Type of error
Printer operation was attempted although the printer option is not provided.	A
	Stopped status
	L
Action	Clearing procedure
Provide the NC system with a printer option. (Only with this option, can printer operation be carried out.)	S
	Display
	Blue

563	PRINTER I/O ERROR (, ,)
Cause	Type of error
<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. 	G
	Stopped status
	L
Action	Clearing procedure
Check for differences in the above settings between the printer and NC system. (Parameters for the NC system: G10 ~ G18)	S
	Display
	Blue

561	SET THE NEW PAPER (, ,)
Cause	Type of error
Output onto the printer was attempted when it was not loaded with paper or when it was not in a READY status.	
	Stopped status
	L
Action	Clearing procedure
① Load the printer with paper. ② Set the printer ready for operation.	S
	Display
	Blue

564	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

565	PRINTER MIS-CONNECTED (, ,)	
Cause		Type of error
This message implies incorrect cable connection between the printer and NC system or implies a power-off status.		G
		Stopped status
		L
Action		Clearing procedure
① Check if the printer cables are correctly connected. ② Check if printer power is turned on.		S
		Display
		Blue

568	DESIGNATED DATA IS NOT RIGHT (WNO., ,)	
Cause		Type of error
The G11 and G12 parameter settings (number of paper feed lines, and number of lines per page) are not correct.		A
		Stopped status
		L
Action		Clearing procedure
Set the parameters correctly.		S
		Display
		Blue

566	SYSTEM ERROR (, ,)	
Cause		Type of error
An error(s) has occurred within the system.		E
		Stopped status
		L
Action		Clearing procedure
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.)		S
		Display
		Blue

569	DATA SIZE OVER (WNO.,Note.,)	
Cause		Type of error
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 WK PROGRAM display.		A
		Stopped status
		L
Action		Clearing procedure
Correct the EIA/ISO machining program. (Insert EOB within 256 characters.)		S
		Display
		Blue

567	PROG.OPERATION NOT ALLOWED(WNO., ,)	
Cause		Type of error
An attempt has been made to output onto the printer the program being edited (or the program being loaded using another I/O unit).		A
		Stopped status
		L
Action		Clearing procedure
Carry out a printout operation only after completion of the program editing operation (or the program loading operation using another I/O unit).		S
		Display
		Blue

570	NO DNC OPTION (, ,)	
Cause		Type of error
DNC operation was attempted although DNC option is not provided.		A
		Stopped status
		L
Action		Clearing procedure
Provide the NC system with a DNC option. (Only with this option, can DNC operation be carried out.)		S
		Display
		Blue

573	LOAD IMPOSSIBLE (TOO MANY) (WNO., ,)	
Cause		Type of error
An attempt has been made to load more machining programs than the maximum number of programs that can be registered within the NC system.		A
		Stopped status
		L
Action		Clearing procedure
Delete unnecessary programs, or save the programs onto an external storage and then delete them. After that, load the particular program.		S
		Display
		Blue

571	ILLEGAL FORMAT (, ,)	
Cause		Type of error
Data other than M32 or M2 use data has been transmitted from the host system, (The format of the transmitted data is not correct.)		A
		Stopped status
		L
Action		Clearing procedure
Check if the transmitted data from the host system is M32 or M2 use data.		S
		Display
		Blue

574	LOAD IMPOSSIBLE (AUTO OPE.) (, ,)	
Cause		Type of error
An attempt has been made during automatic operation to load data other than machining program data.		A
		Stopped status
		L
Action		Clearing procedure
Load such data only after completion of automatic operation.		S
		Display
		Blue

572	LOAD IMPOSSIBLE (SIZE OVER) (WNO., ,)	
Cause		Type of error
The contents of the transmitted machining program from the host system are not correct. (More than 250 lines of MAZATROL program data has been transmitted.)		A
		Stopped status
		L
Action		Clearing procedure
Check the size of the program which has been transmitted from the host system.		S
		Display
		Blue

575	LOAD IMPOSSIBLE (MISMATCH) (, ,)	
Cause		Type of error
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, drum conditions, etc)		A
		Stopped status
		L
Action		Clearing procedure
Check if the data that has been transmitted from the host system is that which is to be used for the machine being used.		S
		Display
		Blue

576	SAME PROGRAM APPOINT (WNO., ,)	
Cause		Type of error
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.		A
		Stopped status
		L
Action		Clearing procedure
Check for an overlapping work number. This alarm message also implies that the parameter (G98, 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.		S
		Display
		Blue

577	NO DESIGNATED PROGRAM (WNO., ,)	
Cause		Type of error
<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. 		A
		Stopped status
		L
Action		Clearing procedure
Check if the machining program with the specified work number exists in the NC system.		S
		Display
		Blue

578	MEMORY CAPACITY EXCEED (WNO., ,)	
Cause		Type of error
An attempt has been made to load more machining programs than the maximum number of programs that can be registered within the NC system.		A
		Stopped status
		L
Action		Clearing procedure
Delete unnecessary programs, or save the programs onto an external storage and then delete them. After that, load the particular program.		S
		Display
		Blue

579	MEMORY PROTECT (, ,)	
Cause		Type of error
Loading has been attempted when the PROGRAM LOCK/ENABLE switch setting was LOCK.		A
		Stopped status
		L
Action		Clearing procedure
Set the switch to ENABLE, and then carry out the loading operation. This alarm message also implies that the setting of the parameter (G98, bit 3) is OFF (0). Change this parameter setting to ON (1). Data loading will then become possible.		S
		Display
		Blue

580	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

581	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

582	DSGNTD FILE NOT TRANSFERED (, ,)	
Cause		Type of error
A file different from the one that has been requested from NC system to the host system was transferred from the latter.		A
		Stopped status
		L
Action		Clearing procedure
Check the details of the file that has been transferred from the host system.		S
		Display
		Blue

583	PROG. SOFTWARE NOT COINCIDENT (, ,)	
Cause		Type of error
An attempt has been made to load a machining program that is different in structure from those stored within the NC system.		A
		Stopped status
		L
Action		Clearing procedure
- Check if the program that has been transferred from the host system is for use with M32 or M2.		S
- Check if the contents of the file transfer message (header block) are correct.		Display
		Blue

584	RECEIVED DATA NOT COINCIDENT (, ,)	
Cause		Type of error
- 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.		A
- The contents of the header block or data block in the file transfer message (including machining programs) are not correct.		Stopped status
		L
Action		Clearing procedure
- Check if the data that has been transferred from the host system is for use with M32 or for use with the machining being operated.		S
- Check the contents of the header block (version number, etc.) or data block (sequence number, etc.) in the file transfer message.		Display
		Blue

585	CABLE MIS-CONNECTED (, ,)	
Cause		Type of error
This message implies incorrect cable connection between the host system and the NC system or implies a power-off status.		G
		Stopped status
		L
Action		Clearing procedure
- Check if the DNC cables are correctly connected.		
- Check if the host system is turned on and ready for data transmission/reception.		S
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 (G98, bit 1) to OFF (0). This will clear the alarm display.		Display
		Blue

586	SYSTEM ERROR (, ,)	
Cause		Type of error
An error has occurred within the system.		E
		Stopped status
		L
Action		Clearing procedure
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.)		S
		Display
		Blue

587	PROG.OPERATION NOT ALLOWED (WNO., ,)	
Cause		Type of error
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).		A
		Stopped status
		L
Action		Clearing procedure
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).		S
		Display
		Blue

588	DATA OPERATION NOT ALLOWED (, ,)	
Cause		Type of error
- 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.		A
		Stopped status
		L
Action		Clearing procedure
Wait until automatic operation has been completed (or until the loading or saving operation using another I/O unit has been completed).		S
		Display
		Blue

589	DATA SIZE OVER (WNO.,Note.,)	
Cause		Type of error
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 WK. PROGRAM display.		A
		Stopped status
		L
Action		Clearing procedure
Correct the machining program. (Insert EOB within 256 characters.)		S
		Display
		Blue

590	DNC COMMAND IMPOSSIBLE (, ,)
Cause	Type of error
<p>The particular status of the NC system disables execution of the control command that has been requested from the host system.</p> <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. 	A
	Stopped status
	L
Action	Clearing procedure
<p>Wait until the NC system becomes ready for processing or until the automatic operation is completed, and then make the request once again.</p>	S
	Display
	Blue

591	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

592	RECEIVED ILLEGAL COMMAND (, ,)
Cause	Type of error
<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. 	A
	Stopped status
	L
Action	Clearing procedure
<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 G106). 	S
	Display
	Blue

593	DNC I/O ERROR (, ,)
Cause	Type of error
<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. 	G
	Stopped status
	L
Action	Clearing procedure
<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: G55 to G108) 	S
	Display
	Blue

594	SEND-RECEIVE ERROR		(, ,)
Cause	<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.	Type of error	
		G	
		Stopped status	
		L	
Action	<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: (G55 to G108))	Clearing procedure	
		S	
		Display	
		Blue	

595	FILE TRANSFER ERROR		(, ,)
Cause	<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.	Type of error	
		G	
		Stopped status	
		L	
Action	<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: (G55 to G108))	Clearing procedure	
		S	
		Display	
		Blue	

596	DNC MALFUNCTION		(, ,)
Cause	An irretrievable hardware error has occurred during reception of the first message (ENQ) from the host system.	Type of error	
		G	
		Stopped status	
		L	
Action	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.	Clearing procedure	
		S	
		Display	
		Blue	

597	STOP POWER IN DNC ACTION		(, ,)
Cause	Power has been turned off during DNC operation.	Type of error	
		A	
		Stopped status	
		L	
Action	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.	Clearing procedure	
		S	
		Display	
		Blue	

598	NO EIA/ISO OPTION (, ,)	
Cause		Type of error
An attempt has been made to transfer EIA/ISO program although the NC system is not provided with an EIA/ISO option.		A
		Stopped status
		L
Action		Clearing procedure
Without an EIA/ISO option, EIA/ISO program processing is not possible.		S
		Display
		Blue

599	NO APPOINT DATA (, ,)	
Cause		Type of error
<p>The host system has issued a request for transmission/reception of data not existing within the NC system.</p> <ul style="list-style-type: none"> - 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. 		A
		Stopped status
		L
Action		Clearing procedure
Check the contents of the command messages that have been sent from the host system.		S
		Display
		Blue

600	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

601	SYSTEM ERROR (, ,)	
Cause		Type of error
A processing error has occurred within the NC system.		E
		Stopped status
		I (L)
Action		Clearing procedure
Using CMT I/O, save the program data, tool data, tool file data, parameters, etc. that are currently being used. After that, please contact your YAMAZAKI MAZAK service station.		O (S)
		Display
		Red (Blue)

602	PROG. DATA NOT ALLOWED (, ,)	
Cause		Type of error
An attempt has been made to start the program being transferred.		B
		Stopped status
		I (L)
Action		Clearing procedure
After the transfer operation is completed, start the program.		O (S)
		Display
		Red (Blue)

603	NO DESIGNATED PROGRAM (WNO.,UNO.,SNO.)	
Cause		Type of error
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.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining programs to see if the designated program exists.		O (S)
		Display
		Red (Blue)

604	NO PITCH IN MULTI WORKPIECES (WNO.,UNO.,SNO.)	
Cause		Type of error
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.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the particular machining program and then set an appropriate multi-piece machining pitch in the common unit,		O (S)
		Display
		Red (Blue)

605	NO TOOL DATA IN PROGRAM (WNO.,UNO.,SNO.)	
Cause	The point-, line- or face-machining (including 3-D) unit does not contain any tool sequences.	Type of error
		B
		Stopped status
		I (L)
Action	Review the particular machining program to see if there are units that do not contain necessary tool sequences.	Clearing procedure
		O (S)
		Display
		Red (Blue)

608	MISSING INPUT DATA (LINE) (WNO.,UNO.,SNO.)	
Cause	A line-machining unit lacks data.	Type of error
		B
		Stopped status
		I (L)
Action	Review the particular machining program, and set data if a line-machining unit lacks data.	Clearing procedure
		O (S)
		Display
		Red (Blue)

606	NO FIGURE IN PROGRAM (WNO.,UNO.,SNO.)	
Cause	The point-, line- or face-machining (including 3-D) unit does not have any figure data.	Type of error
		B
		Stopped status
		I (L)
Action	Review the particular machining program to see if there are units that do not contain necessary figure data.	Clearing procedure
		O (S)
		Display
		Red (Blue)

609	MISSING INPUT DATA (FACE) (WNO.,UNO.,SNO.)	
Cause	A face-machining unit lacks data.	Type of error
		B
		Stopped status
		I (L)
Action	Review the particular machining program, and set data if a face-machining unit lacks data.	Clearing procedure
		O (S)
		Display
		Red (Blue)

607	MISSING INPUT DATA (POINT) (WNO.,UNO.,SNO.)	
Cause	A point-machining unit lacks data.	Type of error
		B
		Stopped status
		I (L)
Action	Review the particular machining program, and set data if a point-machining unit lacks data.	Clearing procedure
		O (S)
		Display
		Red (Blue)

610	MISSING TOOL DATA FOR POINT (WNO.,UNO.,SNO.)	
Cause	A point-machining tool sequence lacks data.	Type of error
		B
		Stopped status
		I (L)
Action	Review the particular machining program, and set data if a point-machining tool sequence lacks data.	Clearing procedure
		O (S)
		Display
		Red (Blue)

611	MISSING TOOL DATA FOR LINE (WNO.,UNO.,SNO.)	
Cause		Type of error
A line-machining tool sequence lacks data.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the particular machining program, and set data if a line-machining tool sequence lacks data.		O (S)
		Display
		Red (Blue)

612	MISSING TOOL DATA FOR FACE (WNO.,UNO.,SNO.)	
Cause		Type of error
A face-machining (including 3-D) tool sequence lacks data.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the particular machining program, and set data if a face-machining tool sequence lacks data.		O (S)
		Display
		Red (Blue)

613	WPC UNIT INCOMPLETE (WNO.,UNO.,SNO.)	
Cause		Type of error
The WPC unit lacks data.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the particular machining program, and set data if the WPC unit lacks data.		O (S)
		Display
		Red (Blue)

614	WPC NESTING OVER (WNO.,UNO.,SNO.)	
Cause		Type of error
The maximum permissible number of repeats of MAZATROL program nesting has been exceeded nine.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review and correct the particular machining program so that the total number of repeats of nesting does not excess nine.		O (S)
		Display
		Red (Blue)

615	OFS UNIT INCOMPLETE (WNO.,UNO.,SNO.)	
Cause		Type of error
The offset unit lacks data.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the particular machining program, and set data if the offset unit lacks data.		O (S)
		Display
		Red (Blue)

616	DATA ERROR IN M CODE UNIT(WNO.,UNO.,SNO.)	
Cause		Type of error
The M code unit contains no data.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the particular machining program, and input data to the M code unit.		O (S)
		Display
		Red (Blue)

617	EXECUTION IMPOSSIBLE (WNO.,UNO.,SNO.)	
Cause		Type of error
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.		B
		Stopped status
		I (L)
Action		Clearing procedure
Search out the contradictory data making reference to WNO., UNO., SNO. (which are displayed together with the alarm message), and then correct the data.		O (S)
		Display
		Red (Blue)

618	POINT CUTTING PARAMETER ERROR (WNO.,UNO.,SNO.)	
Cause		Type of error
The point-machining parameter setting(s) is out of its permissible range.		B
		Stopped status
		I (L)
Action		Clearing procedure
		O (S)
		Display
		Red (Blue)

619	LINE/FACE CUTTING PAR. ERROR (WNO.,UNO.,SNO.)	
Cause		Type of error
The line- or face-machining parameter settings are out of their permissible ranges.		B
		Stopped status
		I (L)
Action		Clearing procedure
The parameter E13 is set to "0"; change it to a value other than "0".		O (S)
		Display
		Red (Blue)

620	CUTTING SPEED ZERO (WNO.,UNO.,SNO.)	
Cause		Type of error
Of tool sequence data (except for chip removal), the circumferential speed is unset or set to "0".		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and set the desired circumferential speed.		O (S)
		Display
		Red (Blue)

621	FEEDRATE ZERO (WNO.,UNO.,SNO.)	
Cause		Type of error
Of tool sequence data (except for chip removal), the feedrate is unset or set to "0".		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and set the desired feedrate.		O (S)
		Display
		Red (Blue)

622	DESIGNATED UNIT NOT FOUND (, ,)	
Cause	Type of error	
The unit that has been designated as the restart position is not present in the program with the specified work number.	B	
	Stopped status	
	I (L)	
Action	Clearing procedure	
Review the machining program and designate the correct unit number.	O (S)	
	Display	
	Red (Blue)	

625	EXCEED ENDMILL DIAMETER (WNO.,UNO.,SNO.)	
Cause	Type of error	
The value of "(groove width) - (finish allowance R) × 2" of the endmill groove unit is larger 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.	B	
	Stopped status	
	I (L)	
Action	Clearing procedure	
	O (S)	
	Display	
	Red (Blue)	

623	DESIGNATED SNO. NOT FOUND (, ,)	
Cause	Type of error	
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.	B	
	Stopped status	
	I (L)	
Action	Clearing procedure	
Review the machining program and designate the correct tool sequence number.	O (S)	
	Display	
	Red (Blue)	

626	NO TOOL IN MAGAZINE (WNO.,UNO.,SNO.)	
Cause	Type of error	
The tool(s) specified in the program is not registered in the tool data of the drum which is to be used. The drum number setting either on the COMMAND display or in the drum changing unit is not correct.	B	
	Stopped status	
	I (L)	
Action	Clearing procedure	
Carry out a tool layout operation and register the necessary tool(s) on the TOOL DATA display. Change the drum number setting on the COMMAND display or in the drum changing unit to the correct value.	O (S)	
	Display	
	Red (Blue)	

624	RESTART IMPOSSIBLE (, ,)	
Cause	Type of error	
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.	B	
	Stopped status	
	I (L)	
Action	Clearing procedure	
	O (S)	
	Display	
	Red (Blue)	

627	TOOL DATA INPUT PROCESS ERROR (WNO.,UNO.,SNO.)	
Cause		Type of error
The data of the tool length or tool diameter is not yet input on the TOOL DATA display.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the tool data and input the tool length or tool diameter.		O (S)
		Display
		Red (Blue)

628	NO ASSIGNED TOOL IN TOOL FILE (WNO.,UNO.,SNO.)	
Cause		Type of error
The tool specified in the program is not registered on the TOOL FILE display.		B
		Stopped status
		I (L)
Action		Clearing procedure
Register the tool data that is to be used in the program into the tool file.		O (S)
		Display
		Red (Blue)

629	TOOL FILE INPUT PROCESS ERROR (WNO.,UNO.,SNO.)	
Cause		Type of error
The tool file lacks of data.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the data on the TOOL FILE display and fill in any empty items with data.		O (S)
		Display
		Red (Blue)

630	Z DEPTH OF CUT TOO LARGE(WNO.,UNO.,SNO.)	
Cause		Type of error
Of the line- or face-machining tool sequence data, the value of the Z depth of cut is in excess of its maximum allowable limit specified on the TOOL FILE display.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and correct the value of the Z depth of cut.		O (S)
		Display
		Red (Blue)

631	STOCK REMOVAL R TOO LARGE (WNO.,UNO.,SNO.)	
Cause		Type of error
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.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and correct the values of removal allowance R and finishing allowance R in the line-machining unit.		O (S)
		Display
		Red (Blue)

632	RADIAL DEPTH OF CUT ZERO (WNO.,UNO.,SNO.)	
Cause		Type of error
Of line- or face-machining tool sequence data, the radial depth of cut is set to a value smaller than zero.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and set the radial depth of cut to the correct value.		O (S)
		Display
		Red (Blue)

633	Z DEPTH OF CUT ZERO (WNO.,UNO.,SNO.)	
Cause		Type of error
Of line- or face-machining tool sequence data, the Z depth of cut is set to a value smaller than zero.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and set the Z depth of cut to the correct value.		O (S)
		Display
		Red (Blue)

634	FINISH DEPTH OF CUT ZERO (WNO.,UNO.,SNO.)	
Cause		Type of error
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.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and set data in the finish allowance data item.		O (S)
		Display
		Red (Blue)

635	TOOL DIAMETER ZERO (WNO.,UNO.,SNO.)	
Cause		Type of error
Of tool data, the tool diameter setting is zero.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the data on the TOOL DATA display and set data in the tool diameter item.		O (S)
		Display
		Red (Blue)

636	STOCK REMOVAL Z TOO SMALL (WNO.,UNO.,SNO.)	
Cause		Type of error
In the line- or face-machining unit, removal allowance Z is smaller than finish allowance Z.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the line- or face-machining unit and increase removal allowance Z to a value greater than that of finish allowance Z.		O (S)
		Display
		Red (Blue)

637	STOCK REMOVAL R TOO SMALL (WNO.,UNO.,SNO.)	
Cause		Type of error
In the line- or face-machining unit, removal allowance R is smaller than finish allowance R.		B
		Stopped status
		I (L)
Action		Clearing procedure
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.		O (S)
		Display
		Red (Blue)

638	R DEPTH OF CUT TOO LARGE(WNO.,UNO.,SNO.)	
Cause		Type of error
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.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and increase the radial depth of cut to a value greater than the tool diameter setting in the tool data.		O (S)
		Display
		Red (Blue)

639	DESIGNATED PALLET NOT FOUND (WNO.,UNO.,SNO.)	
Cause		Type of error
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 .		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and set an allowable pallet number.		O (S)
		Display
		Red (Blue)

640	ILLEGAL ANGLE OF INDEX ORDERED (WNO.,UNO.,SNO.)	
Cause		Type of error
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).		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and set an allowable angle of index.		O (S)
		Display
		Red (Blue)

641	MISSING INPUT DATA (WNO.,UNO.,SNO.)	
Cause		Type of error
The pallet changing unit or the indexing unit lacks of unit data. Initial point Z is not yet set in the common unit. The drum number is not yet set in the drum changing unit.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and set all the necessary values in the unit.		O (S)
		Display
		Red (Blue)

642	ILLEGAL NEXT PALLET NO. INPUT (WNO.,UNO.,SNO.)	
Cause		Type of error
The same pallet number as the current pallet number has been set as the next one.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and make sure of the pallet numbers.		O (S)
		Display
		Red (Blue)

643	DATA ERROR IN MAN. PROG. UNIT (WNO.,UNO.,SNO.)	
Cause		Type of error
The manual program mode unit contains a sequence that has no data.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program, and fill in any incomplete sequence with data or erase such sequences.		O (S)
		Display
		Red (Blue)

644	NOT FOUND NOMINAL DIA (WNO.,UNO.,SNO.)
Cause	Type of error
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.	B
	Stopped status
	I (L)
Action	Clearing procedure
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.	O (S)
	Display
	Red (Blue)

647	NOT FOUND END UNIT (WNO.,UNO.,SNO.)
Cause	Type of error
The end unit is not present in the program.	B
	Stopped status
	I (L)
Action	Clearing procedure
Review the machining program and set the end unit at the end of the program.	O (S)
	Display
	Red (Blue)

645	PRIORITY NO. OVERLAP (WNO.,UNO.,SNO.)
Cause	Type of error
The same priority number is assigned to different tools.	B
	Stopped status
	I (L)
Action	Clearing procedure
Within one process, the same priority number must not be assigned to different tools. Change the priority number.	O (S)
	Display
	Red (Blue)

648	OFFSET DATA FOR MULTI TOO MANY (WNO.,UNO.,SNO.)
Cause	Type of error
More than 10 sets of offset data have been input for multi-piece machining.	B
	Stopped status
	I (L)
Action	Clearing procedure
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.	O (S)
	Display
	Red (Blue)

646	PRIORITY NO. IS ILLEGAL (WNO.,UNO.,SNO.)
Cause	Type of error
The priority numbering order within a unit is not correct.	B
	Stopped status
	I (L)
Action	Clearing procedure
The machining order within one unit has been reversed by the incorrect priority numbering. Change the priority numbers.	O (S)
	Display
	Red (Blue)

649	MMS SEQUENCE INCOMPLETE (WNO.,UNO.,SNO.)
Cause	Type of error
The MMS sequence lacks of data.	B
	Stopped status
	I (L)
Action	Clearing procedure
Review the machining program, and input data to the MMS sequence to make it complete.	O (S)
	Display
	Red (Blue)

650	CHAMFERING IMPOSSIBLE (WNO.,UNO.,SNO.)
Cause	Type of error
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.	B
	Stopped status
	I (L)
Action	Clearing procedure
Review the machining program or the tool file, and correct inappropriate data.	O (S)
	Display
	Red (Blue)

651	PARAMETER ERROR (GYN) (WNO.,UNO.,SNO.)
Cause	Type of error
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.	B
	Stopped status
	I (L)
Action	Clearing procedure
Change the setting of parameter L28 to a value between 0 and 4.	O (S)
	Display
	Red (Blue)

652	GEAR SHIFT DATA ERROR (WNO.,UNO.,SNO.)
Cause	Type of error
The tool sequence data contains an unavailable gear-shift M code(s).	B
	Stopped status
	I (L)
Action	Clearing procedure
Change the corresponding code(s) to an available one(s). 2-gear $\begin{bmatrix} \text{H : M39} \\ \text{L : M38} \end{bmatrix}$ 4-gear $\begin{bmatrix} \text{H : M39} \\ \text{MH : M38} \\ \text{ML : M37} \\ \text{L : M36} \end{bmatrix}$ 3-gear $\begin{bmatrix} \text{H : M39} \\ \text{M : M38} \\ \text{L : M37} \end{bmatrix}$	O (S)
	Display
	Red (Blue)

653	ILLEGAL TOOL DESIGNATED (WNO.,UNO.,SNO.)	
Cause	Tools that cannot be used have been designated.	Type of error
		B
		Stopped status
		I (L)
Action	Review the machining program and designate tools that are usable.	Clearing procedure
		O (S)
		Display
		Red (Blue)

654	TOOL DATA ERROR (WNO.,UNO.,SNO.)	
Cause	The tool length and tool diameter settings on the TOOL DATA display are negative.	Type of error
		B
		Stopped status
		I (L)
Action	Set positive tool length and tool diameter values.	Clearing procedure
		O (S)
		Display
		Red (Blue)

655	PROGRAM DATA IS DESTROYED (WNO.,UNO.,SNO.)	
Cause	The program is already destroyed.	Type of error
		B
		Stopped status
		I (L)
Action	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 CMT I/O or other functions once again.	Clearing procedure
		O (S)
		Display
		Red (Blue)

656	NOT FOUND MMS SEQUENCE DATA (WNO.,UNO.,SNO.)	
Cause	The MMS units include one that has no sequence data.	Type of error
		B
		Stopped status
		I (L)
Action	Create one or more lines of sequence data in the corresponding MMS unit, or erase the unit.	Clearing procedure
		O (S)
		Display
		Red (Blue)

657	ILLEGAL NUMBER INPUT (WNO.,UNO.,SNO.)
Cause	Type of error
The program contains incorrect data.	B
	Stopped status
	I (L)
Action	Clearing procedure
Review the machining program and make data corrections.	O (S)
	Display
	Red (Blue)

658	INITIAL Z < MATERIAL DEPTH (WNO.,UNO.,SNO.)
Cause	Type of error
The setting of the material height in the 3-D machining unit is greater than that of initial point Z in the common unit.	B
	Stopped status
	I (L)
Action	Clearing procedure
Change the program to give a material height value smaller than the initial point Z value.	O (S)
	Display
	Red (Blue)

659	NO ADMIT. TOOL PATH (I/O BUSY) (WNO., ,)
Cause	Type of error
The tool path check cannot be performed since I/O operation (loading) is in progress.	A
	Stopped status
	L
Action	Clearing procedure
Make the tool path check after the I/O operation has been completed.	S
	Display
	Blue

660	NO ADMIT. APPOINT AXIS MOVE (, ,)
Cause	Type of error
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".	B
	Stopped status
	I (L)
Action	Clearing procedure
Using the data cancellation key, erase the Y-axis or Z-axis data of the index position.	O (S)
	Display
	Red (Blue)

661	ILLEGAL M CODE (WNO.,UNO.,SNO.)
Cause	Type of error
M195 (tool breakage detection start command code) has been set for the M code unit or for the manual program mode sequence.	
	Stopped status
Action	Clearing procedure
M195 cannot be executed on MAZATROL programs. Delete that command code from in program.	
	Display

664	3-D UNIT NOT FOUND IN THE PRG. (WNO.,UNO.,SNO.)
Cause	Type of error
A 3-D machining unit has been set in the program in spite of the fact that 3-D machining option is not provided.	B
	Stopped status
	I (L)
Action	Clearing procedure
Erase the 3-D machining unit from the machining program.	O (S)
	Display
	Red (Blue)

662	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

665	ILLEGAL DATA IN 3-D UNIT (WNO.,UNO.,SNO.)
Cause	Type of error
The 3-D machining unit lacks of unit data.	B
	Stopped status
	I (L)
Action	Clearing procedure
Review the machining program and set necessary data in the 3-D machining unit.	O (S)
	Display
	Red (Blue)

663	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

666	PLN DATA NOT FOUND IN THE PRG. (WNO.,UNO.,SNO.)		
Cause		Type of error	
The 3-D machining unit lacks of plane definition data.		B	
		Stopped status	
		I (L)	
Action		Clearing procedure	
Review the machining program and set plane definition data in the 3-D machining unit.		O (S)	
		Display	
		Red (Blue)	

668	ILLEGAL PLN DATA IN THE PRG. (WNO.,UNO.,SNO.)		
Cause		Type of error	
The plane definition data in the 3-D machining unit is not complete.		B	
		Stopped status	
		I (L)	
Action		Clearing procedure	
Review the machining program and set data in the plane definition data item.		O (S)	
		Display	
		Red (Blue)	

667	NOT FOUND CHECK SURFACE DATA (WNO.,UNO.,SNO.)		
Cause		Type of error	
The 3-D machining unit lacks of check surface data.		B	
		Stopped status	
		I (L)	
Action		Clearing procedure	
Review the machining program and set check surface data in the 3-D machining unit.		O (S)	
		Display	
		Red (Blue)	

669	ILLEGAL TOLERANCE DATA INPUT (WNO.,UNO.,SNO.)		
Cause		Type of error	
The value of the tolerance parameter that has been designated in the tool sequence is "0".		B	
		Stopped status	
		I (L)	
Action		Clearing procedure	
Check the parameters E67 through E75, and set a value other than "0" in the parameter whose setting is "0".		O (S)	
		Display	
		Red (Blue)	

670	ILLEGAL SEQUENCE DATA IN PRG. (WNO.,UNO.,SNO.)	
Cause		Type of error
The tool sequence in the 3-D machining unit lacks of data.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and input data to the tool sequence.		O (S)
		Display
		Red (Blue)

671	ILLEGAL MOVE SURFACE DATA (WNO.,UNO.,SNO.)	
Cause		Type of error
The coordinate conversion data in the 3-D machining unit is not complete.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and make the coordinate conversion data complete.		O (S)
		Display
		Red (Blue)

672	ILLEGAL AREA DATA INPUT (WNO.,UNO.,SNO.)	
Cause		Type of error
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.		B
		Stopped status
		I (L)
Action		Clearing procedure
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.		O (S)
		Display
		Red (Blue)

673	FL NUMBER OVER (3-D UNIT) (WNO.,UNO.,SNO.)	
Cause		Type of error
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.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and correct the shape data.		O (S)
		Display
		Red (Blue)

674	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

675	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

678	NO INTERSECTION (WNO.,UNO.,SNO.)	
Cause		Type of error
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.		B
		Stopped status
		I (L)
Action		Clearing procedure
		O (S)
		Display
		Red (Blue)

676	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

679	SMOOTHING FIGURE IMPOSSIBLE (WNO.,UNO.,SNO.)	
Cause		Type of error
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.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and check the value of corner R of the free shapes.		O (S)
		Display
		Red (Blue)

677	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

680	HOLE NUMBER OVER (>500) (WNO.,UNO.,SNO.)
Cause	Type of error
The point-machining units include one(s) that has more than 500 holes defined in it.	B
	Stopped status
	I (L)
Action	Clearing procedure
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.	O (S)
	Display
	Red (Blue)

681	UNDEFINED CORNER AT SPT/FPT (WNO.,UNO.,SNO.)
Cause	Type of error
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.	B
	Stopped status
	I (L)
Action	Clearing procedure
Review the machining program and correct it so that the corner rounding or corner chamfering is not set at the starting or ending point.	O (S)
	Display
	Red (Blue)

682	REPEAT FIGURE INAPPROPRIATE (WNO.,UNO.,SNO.)
Cause	Type of error
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.	B
	Stopped status
	I (L)
Action	Clearing procedure
Review and correct the corresponding shape data.	O (S)
	Display
	Red (Blue)

683	UNDEFINED CORNER (WNO.,UNO.,SNO.)
Cause	Type of error
The value of designated corner rounding or corner chamfering is not appropriate.	B
	Stopped status
	I (L)
Action	Clearing procedure
Review the corresponding shape data and set the correct corner rounding or corner chamfering value.	O (S)
	Display
	Red (Blue)

684	POINT CUTTING PATTERN ERROR (WNO.,UNO.,SNO.)	
Cause		Type of error
The point-machining shape definition data is not appropriate.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review and correct the corresponding shape data.		O (S)
		Display
		Red (Blue)

685	SQUARE CAN NOT BE DEFINED (WNO.,UNO.,SNO.)	
Cause		Type of error
When the shape pattern is "square", the input data cannot be used to make shape definitions.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review and correct the corresponding shape data.		O (S)
		Display
		Red (Blue)

686	NO STARTING POINT (WNO.,UNO.,SNO.)	
Cause		Type of error
During input of free-shape data (open-figure data) to the line-machining unit, "?" has been set as the definition of the starting point.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and set the coordinates of the starting point of the free shape.		O (S)
		Display
		Red (Blue)

687	NO FINAL POINT (WNO.,UNO.,SNO.)	
Cause		Type of error
During input of free-shape data (open-figure data) to the line-machining unit, "?" has been set as the definition of the starting point.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and set the coordinates of the ending point of the free shape.		O (S)
		Display
		Red (Blue)

688	INSUFFICIENT INPUT DATA (WNO.,UNO.,SNO.)	
Cause		Type of error
The coordinates of the intersection point cannot be calculated since the free-shape input data in the line- or face-machining unit is incomplete.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the corresponding shape data and set data that is wanting.		O (S)
		Display
		Red (Blue)

689	INPUT DATA EXCEEDED (WNO.,UNO.,SNO.)	
Cause	The line- or face-machining unit contains too much free-shape input data, and there is contradiction between overlapping data.	Type of error
		B
		Stopped status
		I (L)
Action	Review the corresponding shape data and erase either one of the overlapping data sets.	Clearing procedure
		O (S)
		Display
		Red (Blue)

690	ILLEGAL RADIUS (WNO.,UNO.,SNO.)	
Cause	Contradiction exists in the free-shape data that have been set to define arc in the line- or face-machining units.	Type of error
		B
		Stopped status
		I (L)
Action	Review the corresponding shape data and set correct data.	Clearing procedure
		O (S)
		Display
		Red (Blue)

691	MOUNT (VALLEY) SHAPE ERROR (WNO.,UNO.,SNO.)	
Cause	The second figures (inside figures) are not yet defined in the endmilling-relief, pocket milling-relief or pocket milling-hollow unit.	Type of error
		B
		Stopped status
		I (L)
Action	Review the machining program, and define the second shape in the endmilling-mountain, pocket milling-mountain or pocket milling-valley unit.	Clearing procedure
		O (S)
		Display
		Red (Blue)

692	POINT NUMBER EXCEEDED (> 200) (WNO.,UNO.,SNO.)	
Cause	The number of points which are necessary to define the shapes designated in the line- or face-machining unit exceeds 200.	Type of error
		B
		Stopped status
		I (L)
Action	Review the machining program, and reduce the number of shapes within one line- or face-machining unit.	Clearing procedure
		O (S)
		Display
		Red (Blue)

693	NUMBER OF SHAPE TOO MANY (WNO.,UNO.,SNO.)	
Cause		Type of error
Among the line- or face-machining units is one(s) that contains more shapes than allowable within one unit.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the corresponding shape data and check the number of shapes.		O (S)
		Display
		Red (Blue)

694	FIXED FIGURE DESIGNATED ERROR (WNO.,UNO.,SNO.)	
Cause		Type of error
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.		B
		Stopped status
		I (L)
Action		Clearing procedure
Change the fixed shapes to free ones.		O (S)
		Display
		Red (Blue)

695	POINT INSIDE CIRCLE (WNO.,UNO.,SNO.)	
Cause		Type of error
It is not possible to draw a straight line tangential to point P1 since it is inside the arc.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and check the free-shaped data.		O (S)
		Display
		Red (Blue)

696	ILLEGAL (P) (WNO.,UNO.,SNO.)	
Cause		Type of error
"Left" or "right" is set in P, though "up" or "down" should have been set.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and check the value of P.		O (S)
		Display
		Red (Blue)

697	DATUM (P) NECESSARY (WNO.,UNO.,SNO.)	
Cause		Type of error
P is not yet input in spite of the fact that there are more than one point of intersection with the arc.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the machining program and set P.		O (S)
		Display
		Red (Blue)

698	TWO POINT OVERLAPPED (WNO.,UNO.,SNO.)	
Cause	The coordinate values of the start point and end point are the same.	Type of error
		B
		Stopped status
		I (L)
Action	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.	Clearing procedure
		O (S)
		Display
		Red (Blue)

699	PARALLEL LINES (WNO.,UNO.,SNO.)	
Cause	The two straight lines are parallel to each other, and thus the coordinates of their intersection point cannot be obtained.	Type of error
		B
		Stopped status
		I (L)
Action	Review the corresponding shape data and set correct data.	Clearing procedure
		O (S)
		Display
		Red (Blue)

700	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

701	DEFINED SHAPE TOO SMALL (WNO.,UNO.,SNO.)	
Cause		Type of error
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.		B
		Stopped status
		K
Action		Clearing procedure
Change the shape compensation clearance (parameter E13) to an appropriate value; or use a tool of smaller diameter.		O
		Display
		Blue

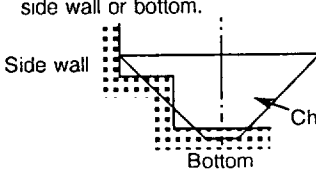
702	FIGURE DEFINITION ERROR (WNO.,UNO.,SNO.)	
Cause		Type of error
The input shape is contradictory to logic, that is, the radius of the arc, for example, does not agree with the distance from the center.		B
		Stopped status
		K
Action		Clearing procedure
Such contradiction usually results from arithmetic errors. Change the radial depth of cut by some micro, or use a tool of smaller diameter.		O
		Display
		Blue

703	PROCESS DEFINITION ERROR (WNO.,UNO.,SNO.)	
Cause		Type of error
The machining conditions are incorrect (for example, the radial depth of cut is zero).		B
		Stopped status
		K
Action		Clearing procedure
Change the machining conditions to correct ones.		O
		Display
		Blue

704	TOOL TRESPASSING IMPOSSIBLE (WNO.,UNO.,SNO.)	
Cause		Type of error
In area machining, the tool diameter with respect to the figure is too large.		B
		Stopped status
		K
Action		Clearing procedure
Replace the tool with one that has a smaller diameter; or select the M2 mode endmilling-mountain machining pattern with setting bit 7 of parameter E91 if this error occurs in the outside machining endmilling-mountain.		O
		Display
		Blue

705	APPROACH POINT ERROR (WNO.,UNO.,SNO.)	
Cause	The approach point cannot be obtained.	Type of error
		B
		Stopped status
Action	Reduce the tool diameter, the approach amount (E1, E2) and/or the overlap amount (E21).	K
		Clearing procedure
		O
		Display
		Blue

706	ILLEGAL FIGURE DATA (WNO.,UNO.,SNO.)	
Cause	The shape has been separated into three segments or more as a result of offsetting.	Type of error
		B
		Stopped status
Action	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.	K
		Clearing procedure
		O
		Display
		Blue

707	INTERVENTION CHAMF. CUTTER (WNO.,UNO.,SNO.)	
Cause	<p>The chamfering tool interferes with the side wall or bottom.</p> 	Type of error
		B
		Stopped status
		K
Action	Use a tool which does not interfere with the side wall or bottom.	Clearing procedure
		O
		Display
		Blue

708	DATA AREA OVER FLOW (WNO.,UNO.,SNO.)	
Cause	In the EIA program, the total number of characters within one block is in excess of 248.	Type of error
		B
		Stopped status
		L
Action	Divide blocks so that one block contains 248 characters or less.	Clearing procedure
		S
		Display
		Blue

748	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

749	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

750	CURVED DEFINITION ERROR (WNO.,UNO.,SNO.)	
Cause		Type of error
A curved surface that cannot be machined has been defined.		B
		Stopped status
		K
Action		Clearing procedure
No corrective actions can be taken against this error; define a curved surface that can be machined.		O
		Display
		Blue

751	CURVED DEFINITION ERROR (WNO.,UNO.,SNO.)	
Cause		Type of error
A curved surface that cannot be machined has been defined.		B
		Stopped status
		K
Action		Clearing procedure
No corrective actions can be taken against this error; define a curved surface that can be machined.		O
		Display
		Blue

752	DESIGNATED AREA DATA IMPOSS. (WNO.,UNO.,SNO.)	
Cause		Type of error
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.		**
		Stopped status
		K
Action		Clearing procedure
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. \geq initial Z ③ Check surface X min. \leq X max., and Y min. \leq Y max., and Z min. \leq Z max.		O
		Display
		Blue

** : eia-gen (3D) B

753	SMALL TOOL (WNO.,UNO.,SNO.)
Cause	Type of error
In rough-machining 2, the tool diameter is extremely small in comparison with the dimensions of the defined 3-D figure.	⌀
	Stopped status
	K
Action	Clearing procedure
Use tools whose diameters are no less than 1/100 of the distance between the maximum and minimum dimensions of the 3-D figure.	O
	Display
	Blue

756	Z DIRECTION PITCH SMALL (WNO.,UNO.,SNO.)
Cause	Type of error
In rough-machining 2, the pitch in the Z direction is extremely small in comparison with the dimensions of the defined 3-D figure.	B
	Stopped status
	K
Action	Clearing procedure
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).	O
	Display
	Blue

754	LARGE TOOL (WNO.,UNO.,SNO.)
Cause	Type of error
Tool interference has occurred.	B
	Stopped status
	K
Action	Clearing procedure
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.	O
	Display
	Blue

757	CURVED DEFINITION LARGE (WNO.,UNO.,SNO.)
Cause	Type of error
① For rough-machining 2 with designation of work size, the dimensions of the defined figure are larger than those of the workpiece. ② 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 work size.	B
	Stopped status
	K
Action	Clearing procedure
① Under YMW specifications, the alarm does not occur. ② 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 work size designation, "(height of the bottom of the 3-D figure) + E89 < material height".	O
	Display
	Blue

755	R DIRECTION PITCH SMALL (WNO.,UNO.,SNO.)
Cause	Type of error
In rough-machining 2, the pitch in the radial direction is extremely small in comparison with the dimensions of the defined 3-D figure.	B
	Stopped status
	K
Action	Clearing procedure
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.	O
	Display
	Blue

⌀ : eia-gen (3D) B

758	INITIAL POINT SET ERROR (WNO.,UNO.,SNO.)		
Cause	In rough-machining 1 or 2, initial Z \leq material height.	Type of error	
		B	
		Stopped status	
		K	
Action	Change settings to give initial Z > material height. Note) This error does not occur if the setting check has already been made using the Op-gen function.	Clearing procedure	
		O	
		Display	
		Blue	

779	(, ,)		
Cause		Type of error	
		Stopped status	
Action		Clearing procedure	
		Display	

759	(, ,)		
Cause		Type of error	
		Stopped status	
Action		Clearing procedure	
		Display	

780	APPROACH PASS INTERVENTION (WNO.,UNO.,SNO.)		
Cause	The programmed approach path or retraction path interferes with the stock material (programmed shape plus removal allowance).	Type of error	
		B	
		Stopped status	
		L	
Action	Reduce the approach amount/overlap amount or use a tool of smaller diameter; or set the approach point in a different position.	Clearing procedure	
		O	
		Display	
		Blue	

778	(. .)		
Cause		Type of error	
		Stopped status	
Action		Clearing procedure	
		Display	

800	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

801	SIMULTANEOUS AXIS OVER (WNO.,NNO.,BNO.)	
Cause		Type of error
The number of axis addresses which have been assigned in one block is in excess of the specifications.		B
		Stopped status
		I (L)
Action		Clearing procedure
Check the specifications and then divide the block into two parts.		O (S)
		Display
		Red (Blue)

802	ILLEGAL AXIS NAME (WNO.,NNO.,BNO.)	
Cause		Type of error
The axis address names assigned in the program are different from those which have been parametrized.		B
		Stopped status
		I (L)
Action		Clearing procedure
Correct the axis address names in the program.		O (S)
		Display
		Red (Blue)

803	DIMENSION DETECTING ERROR (WNO.,NNO.,BNO.)	
Cause		Type of error
A distance of axis movement that cannot be divided by the preset command unit has been assigned.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the program.		O (S)
		Display
		Red (Blue)

804	PARITY H ERROR (WNO.,NNO.,BNO.)	
Cause		Type of error
On paper tape, the number of holes per character is even for EIA code or odd for ISO code.		B
		Stopped status
		I (L)
Action		Clearing procedure
Check the paper tape and the tape reader.		O (S)
		Display
		Red (Blue)

805	PARITY V ERROR (WNO.,NNO.,BNO.)	
Cause		Type of error
On paper tape, the number of holes per block is odd.		B
		Stopped status
		I (L)
Action		Clearing procedure
Make even the hole quantity per block on the paper tape; or turn off the user parameter G23 used for parity-V selection.		O (S)
		Display
		Red (Blue)

806	ILLEGAL ADDRESS (WNO.,NNO.,BNO.)
Cause	Type of error
An address that is not covered in the specifications has been used.	B
	Stopped status
	I (L)
Action	Clearing procedure
Check and correct the corresponding address in the program, and also check the specifications.	O (S)
	Display
	Red (Blue)

809	ILLEGAL NUMBER INPUT (WNO.,NNO.,BNO.)
Cause	Type of error
The assigned data for the address is out of the allowable setting range.	B
	Stopped status
	I (L)
Action	Clearing procedure
Review the program.	O (S)
	Display
	Red (Blue)

807	ILLEGAL FORMAT (WNO.,NNO.,BNO.)
Cause	Type of error
The format in which the data has been designated in the program is incorrect.	B
	Stopped status
	I (L)
Action	Clearing procedure
Review the program.	O (S)
	Display
	Red (Blue)

810	PROGRAM END NOT FOUND (WNO.,NNO.,BNO.)
Cause	Type of error
"EOR" has been detected during tape or memory operation.	B
	Stopped status
	I (L)
Action	Clearing procedure
For the main program, set M02 or M30 at the end of the program. For subprograms, set M99 at the end of the program.	O (S)
	Display
	Red (Blue)

808	MIS-SET G CODE (WNO.,NNO.,BNO.)
Cause	Type of error
A G code that is not covered in the specifications has been designated.	B
	Stopped status
	I (L)
Action	Clearing procedure
Check and correct the corresponding G code address in the program.	O (S)
	Display
	Red (Blue)

811	ILLEGAL O, N NUMBER (WNO.,NNO.,BNO.)
Cause	Type of error
Zeroes have been designated as program or sequence numbers.	B
	Stopped status
	I (L)
Action	Clearing procedure
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 1 ~ 99999.	O (S)
	Display
	Red (Blue)

812	ERROR IN THE BUFFER BLOCK (WNO.,NNO.,BNO.)	
Cause	An error has been found to exist in the pre-read block during execution of tool-diameter compensation.	Type of error
		B
		Stopped status
		I (L)
Action	Review the program.	Clearing procedure
		O (S)
		Display
		Red (Blue)

813	NOT FOUND INCH/METRIC OPTION (WNO.,NNO.,BNO.)	
Cause	The inch/metric selection command has been issued using the G code although a G-code inch/metric selection function is not provided.	Type of error
		B
		Stopped status
		I (L)
Action	Check the specifications.	Clearing procedure
		O (S)
		Display
		Red (Blue)

814	INTERPOLATION IS OVERFLOW (WNO.,NNO.,BNO.)	
Cause	The designated distance of movement is too large (in excess of 231).	Type of error
		B
		Stopped status
		I (L)
Action	Reduce the axis-address setting range.	Clearing procedure
		O (S)
		Display
		Red (Blue)

815	NOT FOUND G60 OPTION (WNO.,NNO.,BNO.)	
Cause	Program command G60 has been designated although a uni-directional positioning function is not provided.	Type of error
		B
		Stopped status
		I (L)
Action	Check the software specifications and change the program command G60 to G00.	Clearing procedure
		O (S)
		Display
		Red (Blue)

816	FEEDRATE ZERO (WNO.,NNO.,BNO.)	
Cause	The feedrate command has not been input.	Type of error
		B
		Stopped status
		I (L)
Action	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).	Clearing procedure
		O (S)
		Display
		Red (Blue)

817	DIFFERENT CENTER TOO LARGE (WNO.,NNO.,BNO.)	
Cause	The relationship between the starting and ending points of the arc and the center of the arc is not appropriate.	Type of error
		B
		Stopped status
		I (L)
Action	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).	Clearing procedure
		O (S)
		Display
		Red (Blue)

820	NOT FOUND G02.1, G03.1 OPTION (WNO.,NNO.,BNO.)	
Cause	The spiral interpolation command (G02.1 or G03.1) has been issued although such an interpolation function is not provided.	Type of error
		B
		Stopped status
		I (L)
Action	Delete the G02.1 or G03.1 command.	Clearing procedure
		O (S)
		Display
		Red (Blue)

818	MISSING CENTER (NO DATA) (WNO.,NNO.,BNO.)	
Cause	For arc interpolation by R designation, the coordinates of the center of the arc cannot be calculated.	Type of error
		B
		Stopped status
		I (L)
Action	Correct the value of each address in the program.	Clearing procedure
		O (S)
		Display
		Red (Blue)

821	NOT FOUND G60 OPTION (WNO.,NNO.,BNO.)	
Cause	The virtual-axis command (G07) has been issued although there are not virtual-axis specifications.	Type of error
		B
		Stopped status
		I (L)
Action	Check the specifications, and then change the G07 command.	Clearing procedure
		O (S)
		Display
		Red (Blue)

819	NOT FOUND HERICAL OPTION(WNO.,NNO.,BNO.)	
Cause	The helical interpolation command has been issued although such an interpolation function is not provided.	Type of error
		B
		Stopped status
		I (L)
Action	Correct 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.	Clearing procedure
		O (S)
		Display
		Red (Blue)

822	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

823	G17 ~ G19 COMMAND IN M98 (WNO.,NNO.,BNO.)	
Cause		Type of error
A plane selection command (G17, G18 or G19) has been issued during figure rotation.		B
		Stopped status
		I (L)
Action		Clearing procedure
Delete the plane selection command (G17, G18 or G19) from the figure rotation subprogram.		O (S)
		Display
		Red (Blue)

824	G17 ~ G19 COMMAND IN G68 (WNO.,NNO.,BNO.)	
Cause		Type of error
A plane selection command (G17, G18 or G19) has been specified in the coordinates rotation command (G68).		B
		Stopped status
		I (L)
Action		Clearing procedure
IF G68 has been issued, execute the coordinates rotation cancel command (G69) before specifying the plane selection command (G17, G18 or G19).		O (S)
		Display
		Red (Blue)

825	G17 ~ G19 COMMAND IN G38 ~ G42 (WNO.,NNO.,BNO.)	
Cause		Type of error
A plane selection command (G17, G18 or G19) has been specified during tool diameter compensation (G41 or G42)		B
		Stopped status
		I (L)
Action		Clearing procedure
Specify the plane selection command after the tool diameter compensation command has been canceled by G40.		O (S)
		Display
		Red (Blue)

826	NOT FOUND G95 OPTION (WNO.,NNO.,BNO.)	
Cause		Type of error
The synchronous feed command (G95) has been specified although such feed specifications are not provided.		B
		Stopped status
		I (L)
Action		Clearing procedure
After checking the specifications, change the synchronous feed command (G95) to the feed-in-minutes command (G94). Also change the F command value.		O (S)
		Display
		Red (Blue)

827	F0 COMMAND IN G02, G03 (WNO.,NNO.,BNO.)	
Cause		Type of error
The F 1-digit rapid-feed command (F0) has been specified during arc interpolation (G02 or G03).		B
		Stopped status
		I (L)
Action		Clearing procedure
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.		O (S)
		Display
		Red (Blue)

828	NOT FOUND AUTO CORNEROVERRIDE (WNO.,NNO.,BNO.)		
Cause		Type of error	
The automatic corner override command (G62) has been specified although such an override function is not available.		B	
		Stopped status	
		I (L)	
Action		Clearing procedure	
Check the specifications, and delete the G62 command from the program.		O (S)	
		Display	
		Red (Blue)	

829	ILLEGAL 2-ND MISCELLAN, CODE (WNO.,NNO.,BNO.)		
Cause		Type of error	
The secondary auxiliary function address that has been specified in the program is different from the corresponding address that has been parametrized.		B	
		Stopped status	
		I (L)	
Action		Clearing procedure	
Check and the correct secondary auxiliary function address that has been specified in the program.		O (S)	
		Display	
		Red (Blue)	

830	NOT FOUND G96 OPTION (WNO.,NNO.,BNO.)		
Cause		Type of error	
The constant circumferential speed command (G96) has been specified although such specifications are not provided.		B	
		Stopped status	
		I (L)	
Action		Clearing procedure	
Check the specifications and change the constant circumferential speed command (G96) to the speed command (rpm).		O (S)	
		Display	
		Red (Blue)	

831	NOT FOUND G45, 46,47,48 OPTION (WNO.,NNO.,BNO.)		
Cause		Type of error	
A tool-position compensation command (G45 to G48) has been specified although such specifications are not provided.		B	
		Stopped status	
		I (L)	
Action		Clearing procedure	
Check the specifications.		O (S)	
		Display	
		Red (Blue)	

832	G45 ~ G49 COMMAND IN M98 (WNO.,NNO.,BNO.)	
Cause		Type of error
Tool-position compensation has been specified during figure rotation or coordinates rotation.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the program.		O (S)
		Display
		Red (Blue)

833	1/4, 3/4 CIRCLES IN G45 ~ G48 (WNO.,NNO.,BNO.)	
Cause		Type of error
An arc command that is not available for tool-position compensation has been specified.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the program.		O (S)
		Display
		Red (Blue)

834	NOT FOUND G40, G41, G42 OPTION (WNO.,NNO.,BNO.)	
Cause		Type of error
A tool-diameter compensation command (G41 or G42) has been specified although such specifications are not provided.		B
		Stopped status
		I (L)
Action		Clearing procedure
Check the specifications.		O (S)
		Display
		Red (Blue)

835	G41, G42, FORMAT ERROR (WNO.,NNO.,BNO.)	
Cause		Type of error
A compensation command (G40, G41, G42) has been specified during the arc mode (G02 or G03 command).		B
		Stopped status
		I (L)
Action		Clearing procedure
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).		O (S)
		Display
		Red (Blue)

836	NO INTERSECTION (WNO.,NNO.,BNO.)	
Cause		Type of error
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.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the program.		O (S)
		Display
		Red (Blue)

837	TOOL OFFSET INTERFERENCE ERROR (WNO.,NNO.,BNO.)	
Cause		Type of error
An interference error has occurred during execution of tool-diameter compensation (G41 or G42).		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the program.		O (S)
		Display
		Red (Blue)

838	NOT FOUND 3-D OFFSET OPTION (WNO.,NNO.,BNO.)	
Cause		Type of error
The three-dimensional compensation command has been designated although such compensation specifications are not provided.		B
		Stopped status
		I (L)
Action		Clearing procedure
Check the specifications.		O (S)
		Display
		Red (Blue)

839	ILLEGAL OFFSET NO. (WNO.,NNO.,BNO.)	
Cause		Type of error
A compensation command (G41, G42 or G43) has been designated without a compensation number (D○○); or the compensation number is larger than the maximum number of sets of compensation numbers available in the specifications.		B
		Stopped status
		I (L)
Action		Clearing procedure
Check the maximum available number of sets of compensation numbers, and designate a compensation number smaller than that.		O (S)
		Display
		Red (Blue)

840	NOT FOUND CANNED CYCLE OPTION (WNO.,NNO.,BNO.)	
Cause		Type of error
A fixed-cycle G code has been designated although fixed-cycle specifications are not provided.		B
		Stopped status
		I (L)
Action		Clearing procedure
Check the specifications and correct the program.		O (S)
		Display
		Red (Blue)

841	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

842	SUB PROGRAM NESTING OVER (WNO.,NNO.,BNO.)	
Cause	The total number of sequential calls of subprogram has exceeded eight.	Type of error
		B
		Stopped status
		I (L)
Action	Check the number of subprogram calls, and correct the program so that the number of calls does not exceed eight.	Clearing procedure
		O (S)
		Display
		Red (Blue)

844	NOT FOUND PROGRAM NUMBER (WNO.,NNO.,BNO.)	
Cause	An attempt was made to call a subprogram which was not yet registered.	Type of error
		B
		Stopped status
		I (L)
Action	Register the subprogram.	Clearing procedure
		O (S)
		Display
		Red (Blue)

843	DESIGNATED SNO. NOT FOUND (WNO.,NNO.,BNO.)	
Cause	The sequence number for subprogram call, for return from a subprogram or for the GOTO designation is not yet set.	Type of error
		B
		Stopped status
		I (L)
Action	Set the sequence number in the appropriate block.	Clearing procedure
		O (S)
		Display
		Red (Blue)

845	ILLEGAL VARIABLE COMMAND (WNO.,NNO.,BNO.)	
Cause	A variables number has been designated although variables number (#○○) specifications are not provided.	Type of error
		B
		Stopped status
		I (L)
Action	Check the specifications.	Clearing procedure
		O (S)
		Display
		Red (Blue)

846	DESIGNATED NUMBER NOT FOUND (WNO.,NNO.,BNO.)	
Cause		Type of error
The designated variables number is larger than the maximum variables number permitted by the specifications.		B
		Stopped status
		I (L)
Action		Clearing procedure
Check the specifications and the variables numbers in the program.		O (S)
		Display
		Red (Blue)

849	FIGURE ROTATE NESTING OVER (WNO.,NNO.,BNO.)	
Cause		Type of error
One figure rotation command has been designated during execution of another such command.		B
		Stopped status
		I (L)
Action		Clearing procedure
Check the program.		O (S)
		Display
		Red (Blue)

847	NO "=" CODE IN PROGRAM (WNO.,NNO.,BNO.)	
Cause		Type of error
"=" was not designated in the definition of a variable.		B
		Stopped status
		I (L)
Action		Clearing procedure
Set "=" in the variables definition.		O (S)
		Display
		Red (Blue)

850	G68 AND M98 COMMANDS (WNO.,NNO.,BNO.)	
Cause		Type of error
A figure rotation command and a coordinates rotation command are designated at the same time.		B
		Stopped status
		I (L)
Action		Clearing procedure
Check the program.		O (S)
		Display
		Red (Blue)

848	NOT FOUND G98 OPTION (WNO.,NNO.,BNO.)	
Cause		Type of error
A figure rotation command has been designated although figure rotation specifications are not provided.		B
		Stopped status
		I (L)
Action		Clearing procedure
Check the specifications.		O (S)
		Display
		Red (Blue)

851	NOT FOUND G68 OPTION (WNO.,NNO.,BNO.)	
Cause		Type of error
The coordinates rotation command (G68) has been designated although coordinates rotation specifications are not provided.		B
		Stopped status
		I (L)
Action		Clearing procedure
Check the specifications.		O (S)
		Display
		Red (Blue)

852	NOT FOUND USERMACRO OPTION (WNO.,NNO.,BNO.)	
Cause		Type of error
Macro specifications have been designated although such specifications are not provided.		B
		Stopped status
		I (L)
Action		Clearing procedure
Check the specifications.		O (S)
		Display
		Red (Blue)

853	NOT FOUND EXTERNAL MACRO OPT. (WNO.,NNO.,BNO.)	
Cause		Type of error
A user macro interruption command has been designated although such interruption specifications are not provided.		B
		Stopped status
		I (L)
Action		Clearing procedure
Check the specifications.		O (S)
		Display
		Red (Blue)

854	USERMACRO MIS-OPERATION(WNO.,NNO.,BNO.)	
Cause		Type of error
An NC statement and a macro statement are present in one block.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the program and give the NC statement and the macro statement in separate blocks.		O (S)
		Display
		Red (Blue)

855	USERMACRO NESTING OVER (WNO.,NNO.,BNO.)	
Cause		Type of error
The maximum permissible degree of multiplicity of user macro calls has been exceeded.		B
		Stopped status
		I (L)
Action		Clearing procedure
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.		O (S)
		Display
		Red (Blue)

856	USERMACRO ARGUMENT OVER (WNO.,NNO.,BNO.)	
Cause		Type of error
The number of sets of user macro call arguments of type II is too large.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the program.		O (S)
		Display
		Red (Blue)

857	USERMACRO G67 MIS-OPERATION (WNO.,NNO.,BNO.)	
Cause		Type of error
Command G67 has been designated when G66 command modal state was not yet set.		B
		Stopped status
		I (L)
Action		Clearing procedure
The G67 command is the call cancellation command; after reviewing the program, designate firstly the G66 command and then the G67 command.		O (S)
		Display
		Red (Blue)

858	USERMACRO "[" NESTING OVER (WNO.,NNO.,BNO.)	
Cause		Type of error
The total number of "[" and "]" within one block has become more than five.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the program, and correct it so that the total number of "[" and "]" within one block does not exceed five.		O (S)
		Display
		Red (Blue)

859	NUMBER OF PARENTHESIS MISMATCH (WNO.,NNO.,BNO.)	
Cause		Type of error
The total number of "[" and "]" within one block differ.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the program, and correct it so that the total number of "[" and of "]" become the same.		O (S)
		Display
		Red (Blue)

860	CALCULATE IMPOSSIBLE (WNO.,NNO.,BNO.)	
Cause		Type of error
The operation expression is not correct.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the program and correct the operation expression.		O (S)
		Display
		Red (Blue)

861	DIVISION ZERO ERROR (WNO.,NNO.,BNO.)	
Cause		Type of error
The denominator in the division expression is zero.		B
		Stopped status
		I (L)
Action		Clearing procedure
Review the program and correct it so that the denominator in the division expression does not become zero.		O (S)
		Display
		Red (Blue)

862	INTEGER VALUE OVERFLOW (WNO.,NNO.,BNO.)	
Cause	The integral value has overstepped -2^{31} ($2^{31}-1$) in the operation process.	Type of error
		B
		Stopped status
		I (L)
Action	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} .	Clearing procedure
		O (S)
		Display
		Red (Blue)

865	"WHILE" STATEMENT ERROR (WNO.,NNO.,BNO.)	
Cause	The statement of WHILE [< conditional expression >] DO ~ END is wrong.	Type of error
		B
		Stopped status
		I (L)
Action	Review the program.	Clearing procedure
		O (S)
		Display
		Red (Blue)

863	REAL VALUE OVERFLOW (WNO.,NNO.,BNO.)	
Cause	The variables data is overflowing.	Type of error
		B
		Stopped status
		I (L)
Action	Review the variables data in the program.	Clearing procedure
		O (S)
		Display
		Red (Blue)

866	"SETVN" STATEMENT ERROR (WNO.,NNO.,BNO.)	
Cause	The SETVN statement containing the variables name is wrong.	Type of error
		B
		Stopped status
		I (L)
Action	Review the program and correct it so that the variables name in the SETVN statement consists of seven characters or less.	Clearing procedure
		O (S)
		Display
		Red (Blue)

864	"IF" STATEMENT ERROR (WNO.,NNO.,BNO.)	
Cause	The statement of IF [< conditional expression >] GOTO is wrong.	Type of error
		B
		Stopped status
		I (L)
Action	Review the program.	Clearing procedure
		O (S)
		Display
		Red (Blue)

867	DO ~ END NESTING OVER (WNO.,NNO.,BNO.)	
Cause	Of WHILE [< conditional expression >] DO ~ END, DO ~ END has appeared more than 27 times (degree of multiplicity).	Type of error
		B
		Stopped status
		I (L)
Action	Review the program and correct it to reduce the degree of multiplicity of DO ~ END to no larger than 27 (27 times).	Clearing procedure
		O (S)
		Display
		Red (Blue)

868	DO ~ END MISS-MATCH (WNO.,NNO.,BNO.)
Cause	Type of error
The DO's and END's are not formed in pairs.	B
	Stopped status
	I (L)
Action	Clearing procedure
Review the program and correct it to give DO's and END's in pairs.	O (S)
	Display
	Red (Blue)

871	VARIABLE NAME OVERLAP (WNO.,NNO.,BNO.)
Cause	Type of error
There are overlapping variables names.	B
	Stopped status
	I (L)
Action	Clearing procedure
Correct the program so that variables names do not overlap.	O (S)
	Display
	Red (Blue)

869	USERMACRO IN TAPE MODE (WNO.,NNO.,BNO.)
Cause	Type of error
During tape operation, a WHILE or GOTO statement has been found to exist in the tape contents.	B
	Stopped status
	I
Action	Clearing procedure
Execute the command in the memory operation mode since blocks containing a WHILE or GOTO statement cannot be executed during tape operation.	O
	Display
	Red

872	NOT FOUND G51 OPTION (WNO.,NNO.,BNO.)
Cause	Type of error
A scaling command (G50 or G51) has been designated although scaling specifications are not provided.	B
	Stopped status
	I (L)
Action	Clearing procedure
Check the specifications.	O (S)
	Display
	Red (Blue)

870	ILLEGAL VARIABLE NAME (WNO.,NNO.,BNO.)
Cause	Type of error
The designated variables name is not correct.	B
	Stopped status
	I (L)
Action	Clearing procedure
Review the variables names in the program and correct the corresponding variables name.	O (S)
	Display
	Red (Blue)

873	NOT FOUND G51.1 OPTION (WNO.,NNO.,BNO.)
Cause	Type of error
A mirror image command (G50.1 or G51.1) has been designated although programmable mirror image specifications are not provided.	B
	Stopped status
	I (L)
Action	Clearing procedure
Check the specifications.	O (S)
	Display
	Red (Blue)

874	NOT FOUND CORNER R/C OPTION (WNO.,NNO.,BNO.)		
Cause		Type of error	
Corner chamfering or corner rounding I / II has been designated although such specifications are not provided.		B	
		Stopped status	
		I (L)	
Action		Clearing procedure	
Check the specifications and delete corner R or corner C from the program.		O (S)	
		Display	
		Red (Blue)	

875	NOT FOUND GEOMETRIC OPTION (WNO.,NNO.,BNO.)		
Cause		Type of error	
The geometric command has been designated although geometric specifications are not provided.		B	
		Stopped status	
		I (L)	
Action		Clearing procedure	
Check the specifications.		O (S)	
		Display	
		Red (Blue)	

876	GEOMETRIC ILLEGAL SHAPE (WNO.,NNO.,BNO.)		
Cause		Type of error	
The geometrics setting format is wrong.		B	
		Stopped status	
		I (L)	
Action		Clearing procedure	
Review the program.		O (S)	
		Display	
		Red (Blue)	

877	NOT FOUND G51 OPTION (WNO.,NNO.,BNO.)		
Cause		Type of error	
The polar coordinates command (G16) has been designated although such command specifications are not provided.		B	
		Stopped status	
		I (L)	
Action		Clearing procedure	
Check the specifications.		O (S)	
		Display	
		Red (Blue)	

878	NOT FOUND ADDR. CHANGE OPTION (WNO.,NNO.,BNO.)		
Cause		Type of error	
Absolute/incremental axis address conversion has been designated although such conversion specifications are not provided.		B	
		Stopped status	
		I (L)	
Action		Clearing procedure	
Check the specifications.		O (S)	
		Display	
		Red (Blue)	

879	NOT FOUND G10 OPTION (WNO.,NNO.,BNO.)	
Cause	Program data input has been designated although such input specifications are not provided.	Type of error
		B
		Stopped status
		I (L)
Action	Check the specifications.	Clearing procedure
		O (S)
		Display
		Red (Blue)

880	NOT ZERO RETURNED AXIS EXIST (WNO.,NNO.,BNO.)	
Cause	A move command other than that for reference-point return has been designated for the axis that was not returned to its reference point.	Type of error
		B
		Stopped status
		I (L)
Action	Manually return the axis to its reference point.	Clearing procedure
		O (S)
		Display
		Red (Blue)

881	NOT FOUND G30 OPTION (WNO.,NNO.,BNO.)	
Cause	Second, third or fourth reference-point return has been designated although such reference-point returning specifications are not provided.	Type of error
		B
		Stopped status
		I (L)
Action	Check the specifications.	Clearing procedure
		O (S)
		Display
		Red (Blue)

882	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

883	(, ,)	
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

884	REFERENCE POINT RETURN CHECK (WNO.,NNO.,BNO.)	
Cause	An axis had not returned to the zero-point when the zero-point check command (G27) was executed.	Type of error
		B
		Stopped status
		I (L)
Action	Review the program.	Clearing procedure
		O (S)
		Display
		Red (Blue)

885	NOT FOUND G22 OPTION (WNO.,NNO.,BNO.)
Cause	Type of error
The before-movement stroke check function (G22) has been designated although such function specifications are not provided.	B
	Stopped status
	I (L)
Action	Clearing procedure
Check the specifications.	O (S)
	Display
	Red (Blue)

888	FILE I/O ERROR (WNO.,NNO.,BNO.)
Cause	Type of error
The machining program file cannot be read.	E
	Stopped status
	I
Action	Clearing procedure
Please contact your YAMAZAKI MAZAK products service station.	O
	Display
	Red (Blue)

886	BEYOND THE AREA OF G22 (WNO.,NNO.,BNO.)
Cause	Type of error
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).	B
	Stopped status
	I (L)
Action	Clearing procedure
Review the axis-address coordinate values in the program.	O (S)
	Display
	Red (Blue)

889	NOT FOUND G37 OPTION (WNO.,NNO.,BNO.)
Cause	Type of error
The automatic tool-length measurement command (G37) has been designated although such measurement specifications are not provided.	B
	Stopped status
	I (L)
Action	Clearing procedure
Check the specifications.	O (S)
	Display
	Red (Blue)

887	TAKE I/O ERROR (WNO.,NNO.,BNO.)
Cause	Type of error
An error has occurred in the tape reader; or a macro printing error has occurred in the printer.	B
	Stopped status
	I
Action	Clearing procedure
Check the parameters for incorrect settings.	O
	Display
	Red (Blue)

890	NOT FOUND G31 OPTION (WNO.,NNO.,BNO.)
Cause	Type of error
The skip command (G31) has been designated although skip specifications are not provided.	B
	Stopped status
	I (L)
Action	Clearing procedure
Check the specifications.	O (S)
	Display
	Red (Blue)

891	NOT FOUND G31.1 ~ G31.3 OPTION (WNO.,NNO.,BNO.)		
Cause		Type of error	
A multi-step skip command (G31.1, G31.2 or G31.3) has been designated although such skip specifications are not provided.		B	
		Stopped status	
		I (L)	
Action		Clearing procedure	
Check the specifications.		O (S)	
		Display	
		Red (Blue)	

892	AUTO PROGRAMING FAIL (WNO.,NNO.,BNO.)		
Cause		Type of error	
A trouble has occurred with the softwear of auto program during the operation.		E	
		Stopped status	
		I	
Action		Clearing procedure	
Please contact your YAMAZAKI MAZAK products service station.		O	
		Display	
		Red (Blue)	

893	(, ,)		
Cause		Type of error	
		Stopped status	
Action		Clearing procedure	
		Display	

894	(, ,)		
Cause		Type of error	
		Stopped status	
Action		Clearing procedure	
		Display	

895	(, ,)		
Cause		Type of error	
		Stopped status	
Action		Clearing procedure	
		Display	

896	(, ,)		
Cause		Type of error	
		Stopped status	
Action		Clearing procedure	
		Display	

897	(, ,)		
Cause		Type of error	
		Stopped status	
Action		Clearing procedure	
		Display	

898	(, ,)		
Cause		Type of error	
		Stopped status	
Action		Clearing procedure	
		Display	

899	(, ,)		
Cause		Type of error	
		Stopped status	
Action		Clearing procedure	
		Display	

900	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Display

903	ILLEGAL G10 L NUMBER (WNO.,NNO.,BNO.)
Cause	Type of error
An unallowable L number has been designated during input of G10 program command.	B
	Stopped status
	I (L)
Action	Clearing procedure
Correct the L number in the program.	O (S)
	Display
	Red (Blue)

901	DIRECTIVE FIXED CYCLE IN CORR. (WNO.,NNO.,BNO.)
Cause	Type of error
The fixed-cycle command has been set in the program during the tool-diameter compensation (G40 or G42) modal status.	B
	Stopped status
	I (L)
Action	Clearing procedure
Set the tool-diameter compensation cancellation command (G40) before the fixed-cycle command.	O (S)
	Display
	Red (Blue)

904	ILLEGAL G10 CORRECTION NO. (WNO.,NNO.,BNO.)
Cause	Type of error
Compensation numbers other than the number of sets permitted by the specifications have been designated during input of G10.	B
	Stopped status
	I (L)
Action	Clearing procedure
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.	O (S)
	Display
	Red (Blue)

902	NOT FOUND G10 OPTION (WNO.,NNO.,BNO.)
Cause	Type of error
The G10 command has been designated although this command is not available with the system.	B
	Stopped status
	I (L)
Action	Clearing procedure
Check the specifications.	O (S)
	Display
	Red (Blue)

905	NOT FOUND G11 OPTION (WNO.,NNO.,BNO.)
Cause	Type of error
The G11 command has been designated although this command is not available with the system.	B
	Stopped status
	I (L)
Action	Clearing procedure
Check the specifications.	O (S)
	Display
	Red (Blue)

906	NO S DIRECTIVE IN FIXED CYCLE (WNO.,NNO.,BNO.)	
Cause	The spindle speed for the fixed cycle has not yet been set in the program.	Type of error
		B
		Stopped status
		I (L)
Action	Program the spindle speed command in the block which precedes the block with the fixed cycle command.	Clearing procedure
		O (S)
		Display
		Red (Blue)

907	DIFFERENT SPINDLE TYPE (WNO.,NNO.,BNO.)	
Cause	An attempt has been made to machine the workpiece using the synchronous tapping method in spite of the spindle controller being an SE type.	Type of error
		B
		Stopped status
		I (L)
Action	Use the appropriate tapping method for the particular type of the spindle controller.	Clearing procedure
		O (S)
		Display
		Red (Blue)

908	NOT PITCH FIXED CYCLE (WNO.,NNO.,BNO.)	
Cause	The pitch or the number of threads has not been designated for the tapping cycle (G74 or G84) of the drilling fixed cycles.	Type of error
		B
		Stopped status
		I (L)
Action	Designate the pitch using address F or E.	Clearing procedure
		O (S)
		Display
		Red (Blue)

909	ILLEGAL PITCH FIXED CYCLE (WNO.,NNO.,BNO.)	
Cause	The pitch or the number of threads designated for the tapping cycle (G74 or G84) of the drilling fixed cycles is wrong.	Type of error
		B
		Stopped status
		K
Action	Check and correct the pitch or the number of threads.	Clearing procedure
		S
		Display
		Blue

910		
Cause		Type of error
		Stopped status
Action		Clearing procedure
		Display

911	NOT FOUND CORNER R/C OPTION (WNO.,NNO.,BNO.)	
Cause	Corner chamfering/corner rounding has been designated although such specifications are not provided.	Type of error
		B
		Stopped status
		K
Action	Check the specifications and delete corner R or corner C from the program.	Clearing procedure
		S
		Display
		Blue

912	NO DIRECTIVE FOR NEXT MOVE R/C (WNO.,NNO.,BNO.)	
Cause		Type of error
The block that is to succeed the corner rounding or corner chamfering command does not consist of a move command.		B
		Stopped status
		K
Action		Clearing procedure
Give the G01 command in the corresponding block.		S
		Display
		Blue

913	INSUFFICIENT MOVE DISTANCE R/C (WNO.,NNO.,BNO.)	
Cause		Type of error
The length of the corner rounding or corner chamfering that has been designated in the corner R/C command is larger than the distance of movement.		B
		Stopped status
		K
Action		Clearing procedure
Reduce the length of the corner R/C to a value smaller than the distance of movement.		S
		Display
		Blue

914	INSUFF. NEXT MOVE DISTANCE R/C (WNO.,NNO.,BNO.)	
Cause		Type of error
The movement distance designated in the next block is shorter than the length of the corner rounding or corner chamfering.		B
		Stopped status
		K
Action		Clearing procedure
Reduce the length of the corner R/C to a value smaller than the moving distance of the next block.		S
		Display
		Blue

915	NO STRAIGHT ANGLE GEOMETRIC (WNO.,NNO.,BNO.)	
Cause		Type of error
In the geometrics command, the difference in angle between the two straight lines which intersect with each other is less than 1 degree.		B
		Stopped status
		K
Action		Clearing procedure
Increase the angle difference in the geometrics command.		O
		Display
		Blue

916	NEXT INCREASE DIREC. GEOMETRIC (WNO.,NNO.,BNO.)
Cause	Type of error
The second block of the geometrics command is an incremental command.	B
	Stopped status
	K
Action	Clearing procedure
The second block must always consists of absolute data. Program it in units of absolute coordinates.	O
	Display
	Blue

918	INSUFFICIENT ADDRESS GEOMETRIC (WNO.,NNO.,BNO.)
Cause	Type of error
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.	B
	Stopped status
	I (L)
Action	Clearing procedure
Check and reprogram the corresponding data.	O (S)
	Display
	Red (Blue)

917	NO NEXT STRAIGHT LINE GEOMETRIC (WNO.,NNO.,BNO.)
Cause	Type of error
The second block of the geometrics command is not given the linear command (G1).	B
	Stopped status
	K
Action	Clearing procedure
Correct the program so that the linear command (G1) and the feedrate command (F) are given to the second block.	O
	Display
	Blue

919	G17 ~ G19 IN GEOMETRIC (WNO.,NNO.,BNO.)
Cause	Type of error
A plane selection command (G17, G18 or G19) was given in the geometrics command block.	B
	Stopped status
	I (L)
Action	Clearing procedure
Program the plane selection command (G17, G18 or G19) in the block that precedes the geometrics command block.	O (S)
	Display
	Red (Blue)

920	G27, M COMMANDS SAME BLOCK (WNO.,NNO.,BNO.)	
Cause		Type of error
An M independent command (M0, M1, M2 or M30) has been programmed in the same block as the G27 command.		B
		Stopped status
		I (L)
Action		Clearing procedure
Correct the program so that the G27 command and the M independent command are contained in separate blocks.		O (S)
		Display
		Red (Blue)

921	G29, M COMMANDS SAME BLOCK (WNO.,NNO.,BNO.)	
Cause		Type of error
An M independent command (M0, M1, M2 or M30) and the G29 command (start-position return) have been programmed in the same block.		B
		Stopped status
		I (L)
Action		Clearing procedure
Correct the program so that the G29 command and the M independent command are contained in separate blocks.		O (S)
		Display
		Red (Blue)

922	SKIP SPEED ZERO (WNO.,NNO.,BNO.)	
Cause		Type of error
The feedrate F has been programmed in the G31 (skip) command block.		B
		Stopped status
		I (L)
Action		Clearing procedure
Set the skip feedrate F into the G31 program block.		O (S)
		Display
		Red (Blue)

923	MISS DIRECTIVE G37 AXIS (WNO.,NNO.,BNO.)	
Cause		Type of error
No axis settings are included in the automatic tool-length measurement block; or more than one axis setting have been made.		B
		Stopped status
		I (L)
Action		Clearing procedure
Designate only one axis.		O (S)
		Display
		Red (Blue)

924	G37, M COMMANDS SAME BLOCK (WNO.,NNO.,BNO.)	
Cause		Type of error
The H code is in the same block as the automatic tool-length measurement command.		B
		Stopped status
		I (L)
Action		Clearing procedure
Set the H code into a block preceeding the automatic tool-length measurement block.		O (S)
		Display
		Red (Blue)

925	NO DIRECTIVE H BEFORE G37(WNO.,NNO.,BNO.)	
Cause	The H code is not yet set for automatic tool-length measurement.	Type of error
		B
		Stopped status
		I (L)
Action	Set an H code into a block preceeding the automatic tool-length measurement block.	Clearing procedure
		O (S)
		Display
		Red (Blue)

940	NO INVERSE TIME OPTION (WNO.,NNO.,BNO.)	
Cause	Inverse time feed program was attempted although inverse time feed option is not provided.	Type of error
		B
		Stopped status
		I (L)
Action	Inverse time feed program cannot be executed because inverse time feed option is not provided.	Clearing procedure
		O (S)
		Display
		Red (Blue)

926	G37 ILLEGAL SIGNAL (WNO.,NNO.,BNO.)	
Cause	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.	Type of error
		B
		Stopped status
		I
Action	Check the program and parameters.	Clearing procedure
		O
		Display
		Red

941	G93 MODE (WNO.,NNO.,BNO.)	
Cause	G code of inhibition during G93 mode has been designated.	Type of error
		B
		Stopped status
		I (L)
Action	Review the program and delete G code of inhibition.	Clearing procedure
		O (S)
		Display
		Red (Blue)

927	SKIP COMMAND IN CORRECTING DIA (WNO.,NNO.,BNO.)	
Cause	The skip command (G31) was given during cutter-diameter compensation (G41 or G42).	Type of error
		B
		Stopped status
		I (L)
Action	Correct the program so that the skip command is executed only after the cutter-diameter compensation cancellation command (G40) has been executed.	Clearing procedure
		O (S)
		Display
		Red (Blue)

979	MACRO USER ALARM (, ,)	
Cause	#3000 = n (alarm message) in the user macroprogram was executed. (n ≥ 21)	Type of error
		B
		Stopped status
		I (L)
Action	Refer to the relevant user macroprogram instruction manual to check the alarm.	Clearing procedure
		O (S)
		Display
		Red (Blue)

980	MACRO USER ALARM 1 (, ,)	
Cause		Type of error
#3000 = 1 (alarm message) in the user macroprogram was executed.		B
		Stopped status
		I (L)
Action		Clearing procedure
Refer to the relevant user macroprogram instruction manual to check the alarm.		O (S)
		Display
		Red (Blue)

983	MACRO USER ALARM 4 (, ,)	
Cause		Type of error
#3000 = 4 (alarm message) in the user macroprogram was executed.		B
		Stopped status
		I (L)
Action		Clearing procedure
Refer to the relevant user macroprogram instruction manual to check the alarm.		O (S)
		Display
		Red (Blue)

981	MACRO USER ALARM 2 (, ,)	
Cause		Type of error
#3000 = 2 (alarm message) in the user macroprogram was executed.		B
		Stopped status
		I (L)
Action		Clearing procedure
Refer to the relevant user macroprogram instruction manual to check the alarm.		O (S)
		Display
		Red (Blue)

984	MACRO USER ALARM 5 (, ,)	
Cause		Type of error
#3000 = 5 (alarm message) in the user macroprogram was executed.		B
		Stopped status
		I (L)
Action		Clearing procedure
Refer to the relevant user macroprogram instruction manual to check the alarm.		O (S)
		Display
		Red (Blue)

982	MACRO USER ALARM 3 (, ,)	
Cause		Type of error
#3000 = 3 (alarm message) in the user macroprogram was executed.		B
		Stopped status
		I (L)
Action		Clearing procedure
Refer to the relevant user macroprogram instruction manual to check the alarm.		O (S)
		Display
		Red (Blue)

985	MACRO USER ALARM 6 (, ,)	
Cause		Type of error
#3000 = 6 (alarm message) in the user macroprogram was executed.		B
		Stopped status
		I (L)
Action		Clearing procedure
Refer to the relevant user macroprogram instruction manual to check the alarm.		O (S)
		Display
		Red (Blue)

986	MACRO USER ALARM 7	(, ,)
Cause		Type of error
#3000 = 7 (alarm message) in the user macroprogram was executed.		B
		Stopped status
		I (L)
Action		Clearing procedure
Refer to the relevant user macroprogram instruction manual to check the alarm.		O (S)
		Display
		Red (Blue)

989	MACRO USER ALARM 10	(, ,)
Cause		Type of error
#3000 = 10 (alarm message) in the user macroprogram was executed.		B
		Stopped status
		I (L)
Action		Clearing procedure
Refer to the relevant user macroprogram instruction manual to check the alarm.		O (S)
		Display
		Red (Blue)

987	MACRO USER ALARM 8	(, ,)
Cause		Type of error
#3000 = 8 (alarm message) in the user macroprogram was executed.		B
		Stopped status
		I (L)
Action		Clearing procedure
Refer to the relevant user macroprogram instruction manual to check the alarm.		O (S)
		Display
		Red (Blue)

990	MACRO MEASUREMENT ALARM 1	(, ,)
Cause		Type of error
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.		B
② #3000 = 11 (alarm message) in the user macroprogram was executed.		Stopped status
		I (L)
Action		Clearing procedure
① Check the workpiece and the machining program.		O (S)
② Refer to the relevant user macroprogram instruction manual to check the alarm.		Display
		Red (Blue)

988	MACRO USER ALARM 9	(, ,)
Cause		Type of error
#3000 = 9 (alarm message) in the user macroprogram was executed.		B
		Stopped status
		I (L)
Action		Clearing procedure
Refer to the relevant user macroprogram instruction manual to check the alarm.		O (S)
		Display
		Red (Blue)

991	MACRO MEASUREMENT ALARM 2 (, ,)	
Cause		Type of error
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.		B
		Stopped status
		I (L)
Action		Clearing procedure
① Check the workpiece and 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.		O (S)
		Display
		Red (Blue)

992	MACRO MEASUREMENT ALARM 3 (, ,)	
Cause		Type of error
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.		B
		Stopped status
		I (L)
Action		Clearing procedure
① Contact a service station. ② Refer to the relevant user macroprogram instruction manual to check the alarm.		O (S)
		Display
		Red (Blue)

993	MACRO MEASUREMENT ALARM 4 (, ,)	
Cause		Type of error
#3000 = 14 (alarm message) in the user macroprogram was executed.		B
		Stopped status
		I (L)
Action		Clearing procedure
Refer to the relevant user macroprogram instruction manual to check the alarm.		O (S)
		Display
		Red (Blue)

994	MACRO MEASUREMENT ALARM 5 (, ,)	
Cause		Type of error
#3000 = 15 (alarm message) in the user macroprogram was executed.		B
		Stopped status
		I (L)
Action		Clearing procedure
Refer to the relevant user macroprogram instruction manual to check the alarm.		O (S)
		Display
		Red (Blue)

995	MACRO MEASUREMENT ALARM 6 (, ,)	
Cause		Type of error
#3000 = 16 (alarm message) in the user macroprogram was executed.		B
		Stopped status
		I (L)
Action		Clearing procedure
Refer to the relevant user macroprogram instruction manual to check the alarm.		O (S)
		Display
		Red (Blue)

996	MACRO MEASUREMENT ALARM 7 (, ,)	
Cause	#3000 = 17 (alarm message) in the user macroprogram was executed.	Type of error
		B
		Stopped status
		I (L)
Action	Refer to the relevant user macroprogram instruction manual to check the alarm.	Clearing procedure
		O (S)
		Display
		Red (Blue)

999	MACRO MEASUREMENT ALARM 10 (, ,)	
Cause	#3000 = 20 (alarm message) in the user macroprogram was executed.	Type of error
		B
		Stopped status
		I (L)
Action	Refer to the relevant user macroprogram instruction manual to check the alarm.	Clearing procedure
		O (S)
		Display
		Red (Blue)

997	MACRO MEASUREMENT ALARM 8 (, ,)	
Cause	#3000 = 18 (alarm message) in the user macroprogram was executed.	Type of error
		B
		Stopped status
		I (L)
Action	Refer to the relevant user macroprogram instruction manual to check the alarm.	Clearing procedure
		O (S)
		Display
		Red (Blue)

998	MACRO MEASUREMENT ALARM 9 (, ,)	
Cause	#3000 = 19 (alarm message) in the user macroprogram was executed.	Type of error
		B
		Stopped status
		I (L)
Action	Refer to the relevant user macroprogram instruction manual to check the alarm.	Clearing procedure
		O (S)
		Display
		Red (Blue)

(MEMO)

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