OPERATING MANUAL

MAZATROL T32B ALARM LIST

PUBLICATION NO. H712SA0150E

MACHINE NO.:

20-

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ALARM LIST

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 display. If alarm display appears, refer to the Alarm List to locate and eliminate the cause of the alarm. One or more alarm numbers and messages may be displayed, depending on the particular status of alarm occurring. In the event of alarm display, therefore, it is highly recommended that the operator should make sure of the type of alarm on the DIAGNOSIS (ALARM) display.

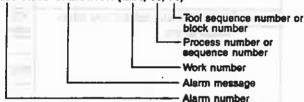
(1) Machine-status alarm indicator lamps

The following lamp lights up in the event of alarm display:
?MC ALM.....Lights up in the event of a machine failure.
?TOOL ALM....Lights up in the event of a tool failure.
?NC ALM.....Lights up in the event of trouble with the
NC equipment.

(2) Alarm display

Alarm display will appear on the DIAGNOSIS (ALARM) display in the following format:

850 AUTO OPERATION (1234, 56, 78)



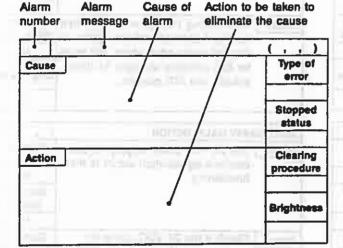
(3) Brightness of display

Alarm messages are displayed as either H (Highlighted: Brighter display) or N (Normal: Normal brightness), in reverse form.

H......Cleared with the RESET key.

N.....Cleared with the CLEAR key.

(4) Structure of the Alarm List



Type of error

Code	Туре	Description
A	Operation	A wrong key has been pressed. Or the machine has been operated incorrectly.
В	Registered data	The program or tool data includes an error(s).
C	Servo	Malfunctioning of the servo control mechanism.

Code	Туре	Description
D	Spindle	Malfunctioning of the apindle control mechanism.
E	NC	System (hardware/software) error
F	Machine (PLC)	Machine failure
G	External VO unit	Malfunction of external I/O unit

Stopped Status

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

Clearing procedure

Code	Procedure
M	Power off ⇒ Eliminate cause ⇒ Power back on
N	Eliminate cause ⇒ Power off ⇒ Power back on
0	Eliminate cause ⇒ Press reset key
P	Press reset key
Q	Eliminate cause ⇔ Press data clear key
8	Press data clear key

Brightness of display

Code	Statue of brightness
Н	Brighter
N	Normal

Note 1: If program-related alarm display appears, that portion of the program in which the alarm has occurred will be displayed in code 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)
PNo.	Work process number (MAZATROL)
SNo.	Sequence number (MAZATROL)
NNo.	Sequence number (EIA/ISO)
BNo.	Block number (EIA/ISO)
BLANK	No display or intra-system elarm processing code

Note 2: Depending on whether the alarm-encountered program is on the foreground (program selected on the POSITION display) or on the background (program selected on the PROGRAM display), each of the stopped status, the alarmstatus clearing procedure, and the brightness of display may be divided into two types: with and without parentheses. If the particular alarm has occurred on the background, the above three types of information are displayed with parentheses.

Note 3: For alarm No. 350 to 399, refer to the Operating Manual accompanying the machine being used.

Note 4: An alarm does not exist for numberless items.

Note 5: An alarm may not be displayed for certain machine models or NC main versions.

Type of

SITO E **Stopped** status Н Clearing

procedure

М Brightness

000	(, ,)	004 B	UM CHECK ERROR	(
Cause	Type of error	Cause	The contents of the system software have been lost.	-
	Stopped status			-
Action	Clearing procedure	Action	insert the system floppy disk into the drive once again to reload the system.	
	Brightness			-
001 OP NOT READY	(, ,)	005 IL	LEGAL SYSTEM PARAMETER	_
The MC712 (IOP) card is not correctly inserted.	Type of error	Cause	The system parameters, such as optional parameters, include incor-	
	E		rect ones.	
	Stopped status			
	Н			
Reinsert the card, but this time, correctly.	Clearing procedure	Action	Check for and correct any parameter errors.	
	М			
	Brightness			

Cause	The system parameters, such as optional parameters, include incorrect ones.	Type of error
		E
		Stopped
		H
Action	Check for and correct any para- meter errors.	Clearing
		N
		Brightness
		Н

002 F	EMOTE UNIT ERROR	(-,-)
Cause	An error occurs frequently during communication between the remote	Type of error
	unit and the CNC causing data	E
	communications to be halted.	Stopped status
		H.
Action	Check for Incorrect connections to the remote control unit.	Clearing procedure
		M
		Brightness
		H

006 IL	LEGAL DATA	(-1, -1)
Cause	Data errors are included in the ATC pocket management table.	Type of error
		ΠE
		Stopped
	Calmida Seco 7 may	Н
Action	After turning the power off and then turning it back on, set the system in	Clearing procedure
	the test mode once again and regis-	
	ter tool numbers as many as there actually are ATC pockets.	Brightness
	Y	Н

003	FLOPPY DISK ERROR	(, ,)
Caus	An error is detected during floppy loading for the RAM system CNC.	Type of error
	The floppy disk is not the correct	E
	one. Data within the floppy disk has been destroyed. The floppy disk	Stopped status
	drive has become damaged.	Н
Action	Please contact your YAMAZAKI MAZAK service representative if the same alarm recurs frequently.	Clearing procedure
		M
		Brightness
		Н

007	D	1024V MALFUNCTION	(, ,)
Cause		The 24 VDC power supply for the machine input/output circuit is mai-	Type of error
-		functioning.	E
		1	Stopped status
			Н
Action	on	Check if the 24 VDC power for machine input/output is supplied.	Clearing procedure
-			М
			Brightness
			Н

008 E	ATTERY MALFUNCTION	(, ,)
Cause	The memory backup battery has run down.	Type of error
		E
		Stopped status
		Н
Action	Replace the battery	Clearing
		M
		Brightness
	HAR SE NOW AND THE PARTY SHAPE	Н

009 D	105V MALFUNCTION	(, ,)	
Cause	The 5 VDC power supply for the machine input/output circuit is mai-	Type of error	
	functioning.	E	
	TOTAL PROPERTY.	Stopped status	
		Н	
Action	Replace the DIO card.	Clearing procedure	
	AND DESCRIPTION OF THE OWNER.	M	
		Brightness	
		н	

010 0	VERHEATED	(, ,)
Cause	The temperature of the NC unit or operation board is in excess of 65°C.	Type of error
		E
		Stopped status
		Н
Action	Check for normal rotation of the cooling fans within the main switch-	Clearing procedure
	board and operation panel. Please	М
-14	contact our service representative if the fans are not rotating or if the	Brightness
	alarm recurs frequently even with the fans rotating.	н

011 E	EPROM MALFUNCTION	(, ,)
Cause	The life of the EEPROM has expired.	Type of error
	December 198	Ε
		Stopped status
		H
Action	Replace the EEPROM.	Clearing procedure
		M
		Brightness
		н

	OARD TRANSFER ERROR	1 1 1
Cause	An error occurred in data transmis- sion to on reception from the	Type of error
	operation panel due to noises and	E
	other causes.	Stopped status
		Н
Action	Please contact your MAZAK service representative if the error recurs quite often.	Clearing procedure
		M
		Brightness
		н

Cause	An illegal interruption signal is detected by the CPU due to noises	Type of error
	and other causes.	E
		Stopped status
		Н
Action	Please contact your MAZAK service representative if the error recurs quite often.	Clearing procedure
		M
	0.00	Brightness
		Н

014 IL	LEGAL MEMORY	(, ,)
Cause	Trouble has occurred in the RAM or ROM.	Type of error
	the state of the s	Е
-	THE RESERVE AND ADDRESS OF THE RESERVE AND ADDRE	Stopped
	The state of the s	Н
Action	Replace the memory card.	Clearing procedure
	December 197	М
	Set to be seen to provide the	Brightness
	TOTAL STREET, SALES AND ADDRESS.	Н

015 8	YSTEM MALFUNCTION	(, ,)
Cause	An error detected in data transmis- sion between the MCP and the amp	Type of error
	when the power is turned on.	E
-		Stopped status
		Н
Action	Check the amplifier for: Improper connector connections Improper power connections	Clearing procedure
		М
		Brightness
		H

016 A	MPLIFIER NOT EQUIPPED	(, ,)
Cause	The amplifler power is not turned on, or signals are not transferred.	Type of error
		E
		Stopped status
		н
Action	Check the amplifier for: Incorrect cable connections	Clearing procedure
	 Cable disconnections Improper connector connections Turn on the line power to the amplifier if not on. 	М
	If the axis selector switches for the amplifier are not correctly set, set	Brightness
	the No. 1 axis selector switch to 0 and the No. 2 axis selector switch to 1.	, H

017 2	PORT MEMORY PARITY	(, ,)
Cause	Data related to the servo has been destroyed.	Type of error
		E
	11 - 11 - 11 - 11 - 12 - 12 - 12 - 12 -	Stopped status
		Н
Action	Replace the card.	Clearing procedure
		М
		Brightness
	THE RESIDENCE AND ADDRESS OF THE PARTY.	Н

018	INCORRECT INITIAL PARAMETER	(-, -)
Caus	An error is detected with the parameters referenced when the power	Type of error
	Is turned on. Internal settings concerning the units of input data are wrong. The data setting concerning	E
	• RNG (unit of movement) or PC2 (gear ratio 2) is illegal.	Stopped status
	 RNG (unit of movement) or PC2 (gear ratio 2) is not set. PIT (ball screw pitch) or PC1 (gear ratio 1) is not set. 	H
Actio	Please contact your MAZAK service representative.	Clearing procedure
	Check the #2 PC2 or #19 RNG MACHINE PARAMETER display data.	N
	 Check the #2 PC2 or #19 RNG MACHINE PARAMETER display data. 	Brightness
	Check #1 PC1 or #18 PIT MACHINE PARAMETER display data.	н

019 IN	ICORRECT TIME CONSTANT	(, ,)
Cause	Time constants are not set, or their settings are out of the required	Type of error
	 Time constants for linear accelerate/decelerate rapid feed are illegal. The time constants are not set, or their settings are out of the required range. Time constants for linear accelerate/decelerate cutting feed are illegal. 	E
	The time constants are not set, or their settings are out of the required range.	Stopped status
	 Time constants for first-order delay rapid feed are illegal. The time constants are not set, or their settings are out of the required range. Time constants for first-order delay cutting feed are illegal. The time constants are not set, or their settings are out of the required range. 	Н
Action	Check the #4 LGOt axis specifica- tion MACHINE PARAMETER dis-	Clearing procedure
	play data. • Check the #7LG1t axis specification MACHINE PARAMETER display data.	N
10	 Check the #5LG0t axis specifica- tion MACHINE PARAMETER dis- play data. 	Brightness
	Check the #8LG1t axis specification MACHINE PARAMETER display data.	- н

021 INSUFFICIENT VOLTAGE (, ,)		
Cause	The AC supply voltage has decreased below 160 ± 5 V or failed to be	Type of error
	applied momentarily.	F
		Stopped status
		н
Action	Check the supply voltage and adjust it to 200/220 V±10%.	Clearing procedure
	Using an oscilloscope, check if momentary power-down has	М
	occurred. At a supply voltage of 200 V, momentary power-down	Brightness
	with a duration of about 25 msec or more may occur.	: H

022	XIS SELECT ERROR	1
Cause	The rotary switch setting is "6" ~ "E" in the amplifier. The same	Type of error
	axis selected for L and M.	C
		Stopped status
		H
Action	Check amplifier	Clearing procedure
		N
		Brightness
		Н

023 11	LEGAL MEMORY 1	<u>(, ,)</u>
Cause	Trouble has occurred in the servo amplifier control card, the internal	Type of error
	cables, or the cable connector. • A check aum error has occurred in	E
	the EPROM during initialization, an SRAM or 2-port RAM check error has occurred, or the EPROM	Stopped status
	or the 2-port RAM is malfunctioning.	н
Action	Check for incorrect connector connections. Check for cable disconnections. Replace the control card (RF01).	Clearing
		М
		Brightnes
	PROTERNISANA TURANA	. н

024 E	XTERNAL CLOCK MALFUNCTION	(, ,)
Cause	Trouble has occurred in the NC, the serve amplifier control card, the	Type of error
	Internal cables, or the cable connector. • Data processing of the location	E
	command from the NC has not terminated within the time set pre-	Stopped status
set on the servo amplifier soft- ware, or the timing signal from NC is illegal.	ware, or the timing signal from the	н
Action	Check the NC—amplifier and amplifier—amplifier cable connectors for incorrect connections. Check the NC—amplifier and	Clearing procedure
		М
	amplifier—amplifier cables for Incorrect connections.	Brightnes
	• Replace the control card (RF01).	Н

025 Y	VATCH DOG	(\cdot , \cdot)
Cause	Trouble has occurred in the NC, the servo amplifier control card, the	Type of error
	internal cables, or the cable con- nector.	E
	Servo IT was not executed even after the elapse of a predeter- mined time, or the timing signal	Stopped status
	from the NC or a 2-port signal is tilegal.	н
Action	Check for Improper connector connections.	Clearing procedure
	Check for incorrect cable connections. Check if the EPROM is mounted.	М
	in the location indicated on it, or check for bends in the legs of pins.	Brightnes
	 Replace the control card (RF01) or the add-on card (RF31/33). 	I H

026 IL	LEGAL MEMORY 2	(, ,)
Cause	Trouble has occurred in the NC, the servo amplifier control card, the	Type of error
	internal cables, or the cable con- nector. • A 2-port RAM check error occur- red, or a parity error was detected during initial parameter data	E
	reception. Either the cable for communica-	Stopped etatus
	tion with the NC or the 2-port RAM is defective. Excessive noise was introduced into the NC—amplifier or amplifier—amplifier cables.	н
Action	Check the NC—amplifier and amplifier—amplifier cable connec-	Clearing procedure
	tors for incorrect connections. Check the NC—amplifier and amplifier—amplifier cables for incorrect connections.	М
Ž.		Brightness
	 Replace the control card (RF01). Provide suitable provision against noise. 	- Н

No. of the second second

027	MAGNETIC POSITION DETECT MALF.	(\cdot , \cdot)
Cause	The position of the magnetic pole was not correctly detected during	Type of error
	initial detection of the magnetic pole.	E
	Either the detector mounted on the servo motor, the cable, or the servo amplifier is defective. Or the	Stopped status
	machine parameter settings related to the serve are illegal.	H
Action	Check for improper connections of the detector connector.	Clearing procedure
	 Check for cable disconnections between the amplifier and the detector. Check for position detector (encoder) malfunctions. 	м
	 Check the setting of "S33" on the MACHINE PARAMETER No. 7 	Brightness
	display. Check the setting of "S41" on the MACHINE PARAMETER No. 7 display. Replace the control card (RF01).	. н

Cause	The servo amplifier control card is malfunctioning.	Type of error
	Either the A/D converter on the con-	F
	trol card dld not correctly function during initialization or the periphery	Stopped status
	of the A/D converter is defective.	Н
Action	Replace the control card (RF01).	Clearing procedure
		M
		Brightness
		н

029	DETECTING NO SIGNAL 1	(, ,)
Caus	Signal U, V, A, B, or Z from the encoder connected to the RF01	Type of error
	card is Illegal.	C
	Either the detector mounted on the servo motor, the cable, or the servo	Stopped status
	amplifier is defective.	Н
Action	Check for improper connections of the detector connector, for cable disconnections between the amplifier and the detector, or for encoder malfunctions.	Clearing procedure
		M
		Brightness
		Н

030 D	ETECTING NO SIGNAL 2	(\cdot , \cdot)
Cause	Signal A, B, or Z from the encoder connected to the RF31 or RF33	Type of error
	card is illegal.	С
	Either the detector mounted on the servo motor; the cable, or the servo	Stopped status
	amplifier is defective.	н
Action	Check for improper connections of the detector connector, for cable disconnections between the ampli- fier and the detector, or for encoder malfunctions.	Clearing procedure
		М
		Brightness
		н

031 D	ETECTING NO SIGNAL 3	(, ,)
Cause	The signal from the resolver (1X) connected to the RF33 card is	Type of error
	illegal.	C
	Elther the signal from the resolver (1X) connected to the RF33 card cable or the excitation signal is	Stopped status
	illegal.	H
Action	Check for Improper connections of the detector connector.	Clearing procedure
	Check for cable disconnections	M
	between the amplifier and the detector.	Brightness
	 Check for resolver malfunctions. Replace the AMP card (RF33). 	H

034 B	ATTERY MALFUNCTION	(, ,)
Cause	The power backup battery for the absolute-value detector circuit on the RF32 or RF33 card has run down.	Type of error
		E
		Stopped status
Ξ.		H
Action	Zero-point returning is required since the absolute value has been lost. Replace the battery.	Clearing procedure
		M
		Brightness
		Н

035 N	O CONTROL AXIS ERROR	1
Cause	Setting error of the rotary switch. Failure of the power circuit of the	Type of error
	exis which is not used. Failure of	E
	RF22 or RF202 card.	Stopped status
		H
Action	Check for Incorrect settings of the rotary switches. Replace the RF22 or RF202 card.	Clearing procedure
		М
		Brightness
		TH

036 1	NTERNAL CLOCK MALFUNCTION	(, ,)
Cause Due to failure of RF202 of nal clock halted.	Due to failure of RF202 card, inter-	Type of error
		E
		Stopped status
		H
Action	Replace the RF202 card.	Clearing procedure
		М
		Brightness
		HI

037 0	VER REGENERATION	(, ,)
Cause	Either the frequency of accelera- tion/deceleration is excessive (care	Type of error
	should be taken since this causes overheating of the regenerative con-	С
	trol resistors), the unbalance load at an axis of motion is excessive, or	Stopped etatus
	the power transistors for regenera- tive control are malfunctioning.	Н
Action	Check the setting of "S36" on the MACHINE PARAMETER No. 7	Clearing procedure
	display. Reduce the frequency of rapid feed acceleration/deceleration. Reduce the rapid feedrate.	N
	 Check the unbalance load at the axis of motion. 	Brightness
	 Add an optional resistor for regenerative control. Replace the regenerative control power transistors or the unit. 	ł H

038	OVER SPEED 1	(, ,)
Cause	the motor or detector has been	Type of error
	The motor speed has exceeded 2400 rpm (for the HA40, HA80,	C
	HA100, HA200, or HA300) or 3600 rpm (for the HA43 or HA83), or the	Stopped status
	ultraprecision encoder speed has exceeded 1400 rpm (for the HA40, HA80, HA100, HA200, or HA300).	Н
Action	If overshooting occurs during acceleration, check the accele-	Clearing procedure
	rate/decelerate time constant. If overshooting occurs because of unstable operation of the servo system, check the gain levels (VG1 and PGN).	N
	Reduce the rapid feedrate. Check for cable disconnections	Brightness
	between the encoder and the servo amplifier. • Check for encoder malfunctions. • Check the minimum unit of movement.	н

039 (OVER AMPERE	(\cdot , \cdot)
Cause	An excessive current has flown from the plus aide of the DC bus bar.	Type of error
	A ground leak or a short-circuit has	С
	occurred in the motor power line, or an overcurrent has flown through the servo amplifier circuit for a pre-	Stopped status
	determined time or more.	н
Action	Check for a ground leak in the motor bus bar.	Clearing procedure
	Check for a short-circuit in the motor bus bar. Check if the speed detector is	М
	mounted in the direction of "STY". Replace the speed detector.	Brightness
	Replace the RF01 card. Check for malfunctions in the main circuit.	:н

HIGHT ISSUE

Objection in the second

Me and the

THE RESERVE ASSESSMENT

040 OV	ER VOLTAGE	, ,)
Cause	The DC bus bar voltage has increa- eed above 400 V.	Type of
	The supply voltage to the servo	С
	amplifier or its internal voltage has become excessive.	Stopped
	THE A WINDS OF THE REAL PROPERTY.	Н
Action	Check for incorrect connections to the regenerative control terminal	Clearing procedure
is exce tion tion 1) inc	acceleration/deceleration frequency essive and the acceleration/decelera- me constant is too small: rease the acceleration/deceleration a constant.	М
2) Re	duce the acceleration/deceleration quency.	Brightness
3) Re Check motio Repla Repla	duce the rapid feedrate. the unbalance load at the axis of	iН

041 DATA PARITY		1 1
Cause	A parity error occurred during data reception from the NC.	Type of error_
	reception not the tree	E
		Stopped
		Н
Action	Check for improper connections of the CN1A or CN1B connectors of	Clearing procedure
	the RF01 card. Check for cable disconnections between the NC and the servo	М
	amplifier. Check for appropriate provision	Brightness
-	against noise. Replace the MC611/MC632 card on the NC side.	н

042 ILLEGAL DATA Cause The variation in the position of the	Type of
data to be designated from the NC is too large.	E
	Stopped
	Н
Action • Reduce the designated speed if it is too high.	Clearing procedure
Check If the CH1A and CN1B connectors within the RF01 card are correctly	М
Check for cable disconnections between the NC and the servo amplifier. The error implies externally induced noise.	Brightnes
Check If the appropriate noise reduction measures are undertaken. Replace NC cards MC611 and/or MC632.	н

043	TRANSMISSION MALFUNCTION	
Cause	Periodical data transfer from the NC was interrupted.	Type of error
	was intorrupted.	E
	The second second	Stopped status
		Н
high	high, reduce the speed.	Clearing procedure
	Check for Improper connections of the CN1A or CN1B connectors of the RF01 card. Check for cable disconnections	М
	between the NC and the servo amplifier.	Brightness
	 Check for appropriate provision against noise. Replace the MC611/MC632 card on the NC side. 	H

044 P	ARAMETER ERROR	(,,)
Cause	Illegal parameter data was transfer- red during initialization. The parameter data that was trans- ferred from the NC to the amplifier following the NC power-on sequence is Illegal.	Type of error
		E
T/		Stopped status
- 2		н
Action	Check the parameter data. The NC power must be turned off after the illegal parameter data has been corrected.	Clearing procedure
		N
		Brightness
		1H

050 F	IN OVERHEAT	, ,)
Cause	The fin became overheated	Type of error
operated at an excessive continuous output current. Since the regenerative control resistors or the regenerative control	F	
	power transistors were being over-	Stopped
	amplifier or the thermal protector for the fin worked or the amplifier ope- rated at its maximum permissible continuous output current.	н
Action Reduce the load. If the thermal protector is retioning, replace the unit.	- Beduce the load.	Clearing
	tioning, replace the unit.	M
		Brightness
		īН

051 M	OTOR OVERHEAT	(, ,)
Cause	The motor became overheated because it was operated at an excessive continuous output current.	Type of error
		F
	Since the motor was operated at a continuous output current, the thermal protector within the motor	Stopped status
	worked.	Н
Action	Reduce the load. Check for improper connections to the terminal board. If the thermal protector is maifunctioning, replace the motor.	Clearing procedure
		M ·
		Brightness
		Н

053 O	VERLOAD 1	(, ,)
Cause	The servo motor was operated at an output current exceeding its rating.	Type of error
	The time during which the motor current exceeded a stall-rating equivalent of OLL parameter data (over-	С
	load detection level) is larger than the OLP parameter data (overload time constant). The load inertia or	Stopped status
	friction is excessive. Or hunting due to parameter setting errors has occurred.	н
Action	If the load Inertia or friction is excessive, reduce the load. Check the data settings of "S37" and "S38" on the MACHINE PARAMETER No. 7 display. If hunting is occurring, make adjustments based on the servo parameter settings.	Clearing
		N
		Brightness
	Check the U, V, and W of the amplifier. Replace the detector and the detector cable.	н

054 C	VERLOAD 2	(,,)
Cause	A current that is 95% or more of the current limit value flew for 0.5	Type of error
	sec or more, or excessively large	C
	load Inertia occurred. Or machine collision occurred.	Stopped status
	The state of the s	Н
Action	If the load inertia is excessively targe, increase the time constant	Clearing procedure
-	or reduce the load. If hunting is occurring, make adjustments based on the servo parameter settings.	N
	 Replace the detector and the detector cable. 	Brightness
	 If the DC bus bar voltage within the unit has decreased below a predetermined level, replace the unit. 	Н

055 SERV	O LAG EXCESS	(, ,)
	e programmed relative position of e NC with respect to the machine	Type of error
ha sit oc ca Th	s exceeded the maximum permis- ple data, or machine collision has curred. Or the detector or its ble is defective. the actual machine position data	E
600	ative to the programmed one has ceeded the parameter setting of 01 (error too large at servo power-	Stopped status
on po tar pe	or OD2 (error too large at servo wer-off). Or the load inertia is too ge for further acceleration to be rformed, or overshooting or onling is occurring.	н
Action • I	the load inertia is too large for urther acceleration to be perfor-	Clearing procedure
n • ii • ii • c	ned, increase the time constant or educe the rapid feedrate. I overshooting or hunting is occur- ing, make adjustments based on the servo parameter settings. Check for incorrect U, V, or W	м
• F	viring of the amplifier. Replace the detector and the	Brightness
• tl 	etector cable. If the DC bus bar voltage within the unit has decreased below a predetermined level, replace the init. Set the servo gain controls to VG1 and PGN.	Н
057 AMPL	IFIER OVERLOAD	(, ,)
Cause The ne	e total current of the motors con- cted to amplifier exceeded the ecified level for more than a pre- termined time.	Type of error C Stopped status
Action	0	Clearing procedure
		Brightness
		TH.
058 EMER	IGENCY STOP (EXTERNAL)	(, ,)
WE	external emergency stop signal us input.	Type of error
na or	ne B and R terminals on the termi- il board have been disconnected, an emergency stop signal was out from the NC or machine side.	Stopped status
1	Check and remove the cause of the error on the NC or machine side. If the connector within the unit is	Clearing procedure M
		Brightness
	defective, replace the unit.	H

059 A	NOTHER AXIS MALFUNCTION	(,,)
Cause	Other servo amplifiers are malfunctioning.	Type of error
	An alarm signal was issued to one	С
	of the axes connected to CN1B.	Stopped status
		Н
Action	Check the axis slarm. Check for unconnected termination connectors. Check if supply voltage is applied to the axes not being used.	Clearing procedure
		М
		Brightnes
	THE RESIDENCE OF STREET	H1

062 0	VERLOAD	()
Cause	The overload-1 alarm has reached or exceeded its 80% level.	Type of error
	Although this error does not directly	С
	lead to an alarm, care must be taken. (The servo power will not	Stopped
	turn off.)	
Action	Check for parameter errors. Reduce the load. Reduce the acceleration/deceleration frequency.	Clearing procedure
		М
		Brightness
		iH

065 P	ARAMETER ERROR	(,)
Cause	Illegal parameters are set. Illegal parameters will be ignored	Type of error
	and the data existing before illegal	E
	parameters were set will be retained.	Stopped status
	2011	
Action	Check the parameter settings. This error will be cleared when correct parameters are set. (The servo power will not turn off.)	Clearing procedure
		N
		Brightness
		N

066	ABSOLUTE POSITION UNRELIABLE	$(\cdot \cdot \cdot)$
Cause	Absolute position detection is mai- functioning.	Type of error
	An error is detected with the "IX" in the absolute position detection. The value of 1X for detection of the absolute position is wrong.	С
	This error indicates that the value of 1X on the DIAGNOSIS (SERVO	Stopped status
	MONITOR) display is in the range of 278 < 1X < 4722 or 1X < 5070. In such cases, the absolute position is not correctly detected.	
Action	 Returning to a watchdog-type reference point must be done once again. 	Clearing procedure
		0
	• If this action does not clear the error status, replace the detector and/or the RF card. (The servo	Brightness
	power will not turn off.)	I N

067 0	VERTRAVEL	(, ,)
Cause	Automatic operation cannot be star- ted since there is an axis that has	Type of error
	reached its stroke end.	E
	This error indicates that overtrave- ling has occurred during speed loop	Stopped
	step stoppage. (The servo power will not turn off.)	Н
Action	If the stroke end has been reached at the axis end, move the axis under manual operations. If the stroke end has been reachd at some other position, check for	Clearing procedure
		Р
		Brightness
	signal line disconnections or limit switch malfunctions.	N.

06B	EMERGENCY STOP	(, ,)
Caus	A hardware error has occurred.	Type of error
		E
	1 Actions	Stopped status
	A THE RESERVE A DRIVE HE HAVE A L.	Н
Action	If this error is not cleared even after the power has been turned off and then turned back on, please contact your MAZAK service representative.	Clearing procedure
		М
		Brightness
		I H

070 IN	ISUFFICIENT VOLTAGE	(, ,)
Cause	The supply voltage has decreased below the guaranteed operating	Type of error
	voltage. Or power-down has	D
	occurred for 15 msec or more.	Stopped status
		H
Action	Check the supply voltage using a voltmeter. (The voltage must stay within the specifications of 200/230 VAC± %.) Using an oscilloscope, check the supply voltage level to see if	Clearing procedure
		N
		Brightness
	power-down has occurred for 15 msec or more.	J.H

072 11	LEGAL MEMORY 1	(, ,)
Cause	Read/write operations on the con- troller control internal memory data	Type of error
111	are not correctly performed.	D
		Stopped status
	the same of the same of the	Н
Action	Check if the EPROM is correctly mounted, that is, check if the location of the ROM number is correct and for bends in the legs of pins. Location of the EPROM FR-SF: SF-CA Cards 2F, 4F FR-SFJ: SFJ-CA1 Cards 16G, 17G	Clearing procedure
		N
		Brightness
		Н

073 E	XTERNAL CLOCK MALFUNCTION	(, ,)
Cause	The NC, the servo amplifier control card, the internal cables, or the con-	Type of error
	nectors are defective.	D
	The state of the state of	Stopped etatus
		Н
Action	Check the NC and the servo amplifier control card.	Clearing procedure
		N
		Brightness
		·H

Cause	The 2-port memory used for com- munication during bus connection	Type of error
	of the CNCs of the M300 series did	D
	not correctly work.	Stopped status
	1	H
Action	Check for improper cable connector connections between the NC	Clearing procedure
	 and the amplifier and between the amplifier and the spindle. Check for loose screws on the connectors. Check for cable disconnections between the NC and the amplifier 	N
145	and between the amplifier and the spindle.	Brightnes
-II	 Replace the SFTL/TLJ card. Check if the grounding terminals of the amplifier, NC, and motor are correctly connected to ground, and check if cable shielding is provided. 	ĭн

Cause	Components on the printed circuit board for control did not correctly	Type of error
	work.	D
	NAME OF THE PERSON	Stopped status
	All the second second second second	H
Action	Replace the SF-CA/SFJ-CA1 card.	Clearing
		N_
		Brightness
	The second secon	н

078 D	ETECTING NO SIGNAL 1	(, ,)
Cause	The level of the eignal from the motor-fitted detector (motor built-in	Type of error
	encoder) is not normal.	D
		Stopped status
	IN Divine would be some passes.	Н
Action	Check the voltage level of the motor-fitted detector. The voltage	Clearing procedure
	tevel must be 3 V, peak-to-peak. If the level significantly differs from this value, replace the printed cir- cuit board used for the motor-fitted	N
	detector. <check terminal=""></check>	Brightness
•	FR-SF: SF-CA card CH45-CH9, CH44-CH9 FR-SF: SFJ-CA1 card CH31-CH35, CH32-CH35 • Replace the SF-CA/SFJ-CA1 card.	ïĤ

079 D	ETECTING NO SIGNAL 2	
Cause	Signals are not input from the orien- tation encoder. Or the signal level is	Type of error
	not normal.	D
		Stopped status
		Н
Action	Check for CONB cable disconnections.	Clearing procedure
	Replace the orientation encoder.	N
	White titles without	Brightner
		I H

080 8	PNDL. CONTRL. (IC MACO12) ALARM	(, ,)
Cause	An error has occurred in the "MAC012" IC of the SF-CA.	Type of error
		D
		Stopped status
		Н
Action	Check if the IC MAC012 of the SF- CA card is correctly mounted. Or	Clearing procedure
	replace the SF-CA card.	N
		Brightness
		н

081 SI	PINDLE SPEED ERROR	(, ,)
	The programmed speed and the motor speed have increased above	Type of error
	their required levels.	D
		Stopped
		H
Action	Set the VK1 parameter to "1" If	Clearing procedure
	 If the motor is running at a speed of several tens of rpm but the dis- play of the motor speed is 0 rpm, take the same corrective action as that of alarm No. 20. 	N
	 If the display of the motor speed is correct, check the phase wiring of the U-V-W power line. 	Brightness
	 If the motor is not running smoothly or if it does not run, check for U-V-W power line discon- nections between the amplifier and the motor. 	H

082 SPINDLE CONTROL (BREAKER TRIP) (, ,)		
Cause	An overrated current was applied to the main circuit.	Type of error
		D
		Stopped status
		H
Check if the supply voltage is normal in capacity and waveform. Check if momentary power-off or power-down occurred during deceleration. Replace the SF-CA card.	Check if the supply voltage is nor- mal in capacity and waveform.	Clearing procedure
	N	
	Brightness	
	• Replace the SF-CA card.	н

083 S	PINDL. (CONVERTER OVERCURRENT)	(, ,)
Cause	An overrated current was applied to the converter.	Type of error
	The state of the s	D
		Stopped status
		H
Action	Check if the supply voltage is normal in capacity and waveform. Check if momentary power-off or power-down occurred during deceleration.	Clearing procedure
		N
		Brightness
	 Replace the SF-CA card. 	• Н

084 B	PINDLE CONTRL. (PHASE LACK)	(, ,)
Cause	Of the three phases of the line power, one is missing that is not being used for the control power.	Type of error
	THE STUDY HAVE STANDARD OF THE	Stopped
Action	Check the line power. Check the control power for a blown fuse.	Clearing procedure
		Brightness

085 SPNDL. CONTRL. (C	PU) MALFUNCTION (, ,)
Cause During calculation	on by the CPU, a curred because of error
wrong parameter settings.	
	Stopped status
	н
Action Check the calcu	lation results Indie Parameters on procedure
the NC Screen"	specified in the N
parameter setting list attached to the FR-SF/SFJ body cover.	g list attached to
	Н

087 O	VER SPEED	(, ,)
Cause	The motor speed has exceeded 115% of its maximum permissible	Type of error
	value.	D
		Stopped status
		Н
Action	Reduce the programmed speed. If overshooting due to unstable operation of the speed control system occurs, check the VKP and VKI gain levels.	Clearing procedure
		N
	• Check if an alarm occurs at set- tings of VKP=63 and VKI=1.	Brightness
	 If an alarm occurs, replace the SF-CA/SFJ-CA1 card. If an alarm does not occur, set the gains to their optimum levels. 	. н

088 OVER AMPERE		(, ,)
Cause	An overrated current was applied to the controller. Or motor selection based on parameter 02 is not	Type of error
	correct.	Stopped etatus
Action	Make a correct motor selection based on parameter 02 of the FR-SF/SFJ body. Check the supply voltage for appropriate capacity and	Clearing procedure
	waveform. Check for a ground leak and a short-circuit in the motor bus bar. Replace the SF-CA/SFJ-CA1 card. Replace the unit.	Brightness

089 C	VER VOLTAGE	(, ,)
Cause	The voltage of the main circuit capacitor was increased above the	Type of error
	required level by the regenerative	D
	energy during motor deceleration.	Stopped
		7 mm H m m
Action	FR-SF • Reduce the line impedance.	Clearing
	 Check the supply voltage for appropriate capacity and waveform. Check if momentary power-off or power-down occurred during dece- 	N
	leration. • Replace the SF-CA card.	Brightnes
	 FR-SFJ Check for cable disconnections in the resistor unit. Replace the SFJ-CA1 card. Replace the unit. 	н

090 D	ATA PARITY	(, ,)
Cause	A parity error occurred during bus connection to the CNCs of the	Type of error
	M300 series.	D
		Stopped status
		Н
Action	Check if suitable noise provision is made between the NC and the	Clearing procedure
	spindle. Since trouble is likely to have occurred in the cables or the memory used for communication during bus connection, take the	N
	same corrective action as that of alarm No. 15.	Brightness
	 Check for loose screws on the connectors between the NC, servo amplifier, and spindle. Replace the MC611/MC632 card on the NC side. 	'н

091 II	LLEGAL DATA	(\cdot , \cdot)
Cause	Larger move command data than the required data was given from a	Type of error
	CNC during bus connection to the	D
	CNCs of the M300 series.	Stopped status
		H
Action	Check if sultable noise provision is made between the NC and the	Clearing procedure
spindle. Since trouble is likely to have occurred in the cables or the memory used for communication during bus connection, take the same corrective action as that of alarm No. 15.	Since trouble is likely to have occurred in the cables or the memory used for communication	N
	Brightness	
	 Check for loose screws on the connectors between the NC, servo amplifier, and spindle. Replace the MC611/MC632 card on the NC side. 	н

092	TRANSMISSION MALFUNCTION	
Cause	Correct data transfer was not performed during bus connection to the	Type of error
	CNCs of the M300 series.	D
		Stopped
		Н
Action	Check if suitable noise provision is made between the NC and the	Clearing procedure
	spindle. Since trouble is likely to have occurred in the cables or the memory used for communication during bus connection, take the	N
	same corrective action as that of alarm No. 15.	Brightness
	 Check for loose screws on the connectors between the NC, servo amplifier, and spindle. Replace the MC611/MC632 card on the NC side. 	• Н

093 P	ARAMETER ERROR	(, ,)
Cause	Parameter data out of the permissible range is set.	Type of error
		D
		Stopped status
		Н
Action	Take the same corrective action as that of alarm No. 027.	Clearing procedure
	District district desired	N
		Brightness
		Н

094	FR-TK UNIT SWITCHING ERROR	(, ,)
Cause	The TK card (for 1-amplifier, 2-motor use) has detected a selection error.	Type of error
	200/ 1120 20100100 20 2010	D
	The state of the s	Stopped status
		Н
Action	Check for FR-TK card malfunctions.	Clearing procedure
		N
		Brightness
		Н

095 F	R-TK UNIT COMMUNICATION ERROR	(11)
Cause	Correct data communication with the TK card was impossible.	Type of error
	The state of the s	D
		Stopped status
		Н
Action	Check for FR-TK card maifunctions and for communication data errors.	Clearing procedure
2		N
		Brightness
		TH.

099 8	PINDLE CONTROL OVERHEAT	(, ,)
Cause	The main circuit components have become overheated because of	Type of error
	stoppage of the cooling fan due to	D
	an abnormal ambient temperature or an overload.	Stopped status
	The state of the same of	Н
Action	Reduce the load. Check if the cooling fan within the	Clearing procedure
	unit is rotating.	N
	 Check if the thermal protector within the unit is correctly working. 	Brightness
	• Replace the SF-CA/SFJ-CA1 card.	н

100 M	OTOR OVERHEAT	(, ,)
Cause	The motor became overheated because of overloading or stoppage	Type of error
	of the motor-cooling blower. Over- heating of the motor will also occur if: • Motor acceleration/deceleration is performed more often than the	D
ii .	maximum permissible number of times.	Stopped status
	 The resistor unit becomes over-heated because of stoppage of the resistor-cooling fan. The TBZ is unconnected or the CON2 is disconnected. 	Н
Action	FR-SF/SFJ	Clearing
	Reduce the load. Check for cable disconnections between OHS1—CON2 pin 3 and OHS2—CON2 pin 2 on the motor. Check if the motor-cooling fan is rotating smoothly. FR-SFJ only	N
Alog II	Reduce the frequency of motor acceleration/deceleration.	Brightness
ŦI	 Check for cable disconnections between the terminal board of the resistor unit and the AL1-A to AL2-B terminals on TB2 of the FR-SFJ body. Check if the resistor unit cooling fan is rotating smoothly. 	н

104 S	ERVO LAG EXCESS	(, ,)
Cause	The position follow-up error rate during position looping has exceed-	Type of error
	ed the required value, or a wrong	D
	encoder-mounting direction was selected during data setting in bit 8	Stopped status
	of parameter 30.	Н
Action	Check If the orientation-detector mounting direction that has been set using parameter ORS2 is correct. Check if the position-loop detector mounting direction that has been	Clearing procedure
		N
		Brightness
	set using parameter ORS2 is correct.	н

Cause	Type of error
	Stopped status
Action	Clearing procedure
	Brightness

108 4	NOTHER AXIS MALFUNCTION	(\cdot , \cdot)
Cause	Some trouble occurred in other servo axes during bus connection to	Type of error
	the CNCs of the M300 series. Or	D
	the termination resistor on connec- tor CN1B may have come off.	Stopped
		Н
Action	Check if the termination resistor on connector CN1B has come off.	Clearing procedure
	Check for loose screws on con-	N
	nector CN1B. • Check if connectors CN1A and	Brightness
	CN1B are connected the other way around.	Н

109 0	PTION PRINT CIRCUIT BOARD ERR.	(, ,)
Cause	The function which is required to be activated is not setup in the FR-SF	Type of error
	as an option.	D
	minim part temporal all layer (Stopped status
		Н
Action	Add an optional cover.	Clearing procedure
		N
		Brightness
		H.

110 M	EMORY POWER OFF WARNING	(, ,)
Cause	Supply voltage is lowered temporarily. (The servo power, however,	Type of error
	will not turn off.)	D
	811	Stopped status
		Н
Action	Press the reset key.	Clearing
		N
		Brightness
		- H

114	PARAMETER ERROR	(, ,)
Caus	Parameter data out of the permissi- ble range has been set. (The servo	
	power, however, will not turn off.)	D
		Stopped status
		Н
Actio	ction Check the parameter data.	Clearing procedure
		N
		Brightness
		Н

117 E	MERGENCY STOP	()
Cause	A hardware error has occurred.	Type of error
		D
		Stopped status
		Н
Action	Please contact your MAZAK service representative if the error is not cleared even after the power has been turned off and then turned back on.	Clearing procedure
		N
		Brightness
		ı H.

120 S	OFT LIMIT	(, ,)
Cause	Stored stroke limit 1 or 2 has worked.	Type of error
0.		D
		Stopped status
		Н
Action	Move the axis under manual operations.	Clearing procedure
	• Correct the machining program.	N
		Brightness
	·	Н

121 0	ZER TRAVEL	(-, -)
Cause	The stroke end function has worked (Input signal off) to indicate that an	Type of error
	exis has reached its stroke end.	D
	-	Stopped status
		H
Action	Move the axis away from the stroke end limit switch under manual operations. Correct the machining program.	Clearing procedure
		N
		Brightness
		HI

122 C	HUCK BARRIER	(, ,)
Cause	The tool interfered with the chucks.	Type of error
		D
		Stopped status
		Н
Action	Correct the machining program.	Clearing procedure
		N
		Brightness
		н

123 T/	AILSTOCK BARRIER	(, ,)
	The tool interfered with the tall	Type of error
	Dalliots.	D
		Stopped
		Н
Action	Correct the machining program.	Clearing
		N
		Brightness
		Н

124 W	ORK PIECE BARRIER	(, ,)
Cause	The workplece of first and second system interfere.	Type of error
-	Bystem interiore.	D
		Stopped status
		Н
Action Co.	Correct the machining program.	Clearing procedure
		N
		Brightness
	•	Н

125 N	O MEASURING SENSOR SIGNAL	(, ,)
Cause	The sensor signal is not turned on.	Type of error
		D
		Stopped status
		Н
Action	Check if the sensors are correctly mounted. Check the machining program for data errors.	Clearing procedure
		N
		Brightness
		≅н

126 IL	LEGAL MEASURING SENSOR SIGNAL	(, ,)
Cause	A sensor turned on when it was outside the measure area.	Type of error
		D
		Stopped
		Н
Action	Check the program if a sensor came into contact with anything else. If the error is not due to sensor contact, check for correct mounting of sensors.	Clearing procedure
		N
		Brightness
	-	Н

127 M	EASURED RESULT MALFUNCTION	(, ,)
Cause	Being unusual of measured is showned.	Type of error
77		D
		Stopped status
		Н
Action	Check if sensor tooling has been correctly done.	Clearing procedure
F	· Check the machining program for	N
	data errors. • Check if the sensors are correctly	Brightness
	mounted.	н

128 E	MERGENCY STOP	()
Cause	The emergency stop button was pressed.	Type of error
	max muont est est est est est	D
		Stopped status
		H
Action	Reset the emergency stop button.	Clearing procedure
		N
		Brightness
		Н

128 PARAMETER ERROR	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Brightness

130 8	P BARRIER	(, ,)
Cause	The tool interfered with the SP barrier.	Type of error
		D
		Stopped
		Н
Action	Correct the machining program.	Clearing
		N
		Brightness
		Н

140 A	UTO START CONDITION ERROR	(, ,)
Cause	(1) Axis moving Automatic start is not possible since there is an axis that is	Type of error
	moving. (2) Ready off Automatic start is not possible since NC Ready is not on.	
	(3) Reset signal active Automatic start is not possible because of a reset signal being Input.	E
	(4) Automatic operation pause signal ON The FEED HOLD button on the machine is set to ON (valid).	
	(5) Axis present at hardware stroke end Automatic start is not possible	Stopped
	because of an axis having reached its stroke end. (6) Axis present at software stroke end Automatic start is not possible because of an axis having reached its stored stroke end. (7) Operation mode overlap Two or more automatic operation modes have been selected. (8) Overheated The temperature of the NC unit or operation board is too high.	L

Action	(1) After all axes have stopped moving, restart the automatic	Clearing
	operation. (2) Some other alarm cause is occurring. Take the appropriate corrective action according to the particular alarm status. (3) Turn off the reset input signal. The RESET key is malfunctioning or set to its normally-on position.	a
	Review the sequence program. (4) Check the setting of the FEED HOLD button. The FEED HOLD button is of a B-contacts type. Check for cable disconnections	o
	In the FEED HOLD button signal line. Review the sequence program. (5) If the stroke end has been reached at the axis end, move	Brightness
	the axis under manual operations. Check for cable disconnections In the stroke end signal line. Check for stroke end limit switch mailunctions.	
	(6) Move the axis under manual operations. If that position is not the axis end, check for parameter errors.	N
	(7) Check for short-circuits in the mode selector signal lines (Memory, Tape, or MDI modes). Check for switch malfunctioning Review the sequence program.	l libra :
	(8) Check the cooling fans within the main switchboard and operation panel.	

Caus	6	The operation mode active when the CYCLE START button was pres-	Type of error
		sed was not an automatic operation	E
		mode.	Stopped status
			L
Actio	n	Change the mode to an automatic operation mode before restarting.	Clearing procedure
			8
		American State of the Control of the	Brightness
		The state of the s	N

Cause	The operation mode is changed from one automatic operation mode	Type of error
	to another.	Е
		Stopped
	II - II-OH II IOCH II-II	status
	the state of the s	L
	Change the mode back to the origi-	Clearing
Action	Change the mode back to the ongr	procedure
	nal automatic operation mode	-
	before restarting automatic ope-	S
	ration.	Brightness
		N ·
143 R	ESTART SEARCH UNFINISHED	(, ,)
	The restart key was pressed before	Type of
Cause	Illia testati way mas biassan painte	
	the restart data search operation	error
	was completed. • MAZATROL · · · Data required for re-	E
		01
	start is not yet input.	Stopped
	• EIA · · · Data required for restart is	status
	not yet input. "EIA/ISO SEARCH" menu key was not pressed.	L
		01-1-1
Action	Set data, and then restart. (For EIA	Clearing
	programs, press the "EIA/ISO	procedure
	SEARCH* menu key before	S
	restarting.)	Brightness
	and the fire and the second	N
144 SI	NGLE PROCESS SEARCH UNFIN.	(, ,)
	The restart key was pressed before	Type of
	The restart key was pressed before the single-process data search ope-	Type of error
	The restart key was pressed before the single-process data search operation was completed.	Type of
	The restart key was pressed before the single-process data search operation was completed.	Type of error
	The restart key was pressed before the single-process data search operation was completed. Data required for single-process	Type of error
	The restart key was pressed before the single-process data search operation was completed.	Type of error E Stopped status
	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set.	Type of error E Stopped status
Cause	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set.	Type of error E Stopped status
Cause	The restart key was pressed before the single-process data search operation was completed. Data required for single-process	Type of error E Stopped status L Clearing
Cause	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set.	Type of error E Stopped status L Clearing procedure
	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set.	Type of error E Stopped status L Clearing
Cause	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set.	Type of error E Stopped status L Clearing procedure
Cause	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set.	Type of error E Stopped status L Clearing procedure S
Cause Action	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart.	Type of error E Stopped status L Clearing procedure S Brightness
Action	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart.	Type of error E Stopped status L Clearing procedure S Brightness N
Action	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart.	Type of error E Stopped status L Clearing procedure S Brightness
Action	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart.	Type of error E Stopped status L Clearing procedure S Brightness N
Action	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart. CORKPIECE PROGRAM NOT FOUND Automatic operation has started but the intended work number was not present.	Type of error E Stopped status L Clearing procedure S Brightness N (, ,) Type of error
Action	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart. ORKPIECE PROGRAM NOT FOUND Automatic operation has started but the intended work number was not present. The intended work number was not	Type of error E Stopped status L Clearing procedure S Brightness N (, ,)
Action	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart. ORKPIECE PROGRAM NOT FOUND Automatic operation has started but the intended work number was not present. The intended work number was not	Type of error E Stopped status L Clearing procedure S Brightness N (, ,) Type of error E
Action	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart. CORKPIECE PROGRAM NOT FOUND Automatic operation has started but the intended work number was not present. The intended work number was not present (the work number was 0)	Type of error E Stopped status L Clearing procedure S Brightness N (, ,) Type of error E Stopped
Action	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart. ORKPIECE PROGRAM NOT FOUND Automatic operation has started but the intended work number was not present. The intended work number was not present (the work number was 0) when the CYCLE RESTART button	Type of error E Stopped status L Clearing procedure S Brightness N (, ,) Type of error E Stopped
Action	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart. ORKPIECE PROGRAM NOT FOUND Automatic operation has started but the intended work number was not present. The intended work number was not present (the work number was 0) when the CYCLE RESTART button was pressed in the automatic operation.	Type of error E Stopped status L Clearing procedure S Brightness N (, ,) Type of error E Stopped
Action	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart. CORKPIECE PROGRAM NOT FOUND Automatic operation has started but the intended work number was not present. The intended work number was not present (the work number was 0) when the CYCLE RESTART button was pressed in the automatic operation mode. (Except during the test	Type of error E Stopped status L Clearing procedure S Brightness N (, ,) Type of error E Stopped
Action	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart. CORKPIECE PROGRAM NOT FOUND Automatic operation has started but the intended work number was not present. The intended work number was not present (the work number was 0) when the CYCLE RESTART button was pressed in the automatic operation mode. (Except during the test mode.)	Type of error E Stopped status L Clearing procedure S Brightness N (, ,) Type of error E Stopped status L
Action 145 W Cause	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart. CORKPIECE PROGRAM NOT FOUND Automatic operation has started but the intended work number was not present. The intended work number was not present (the work number was 0) when the CYCLE RESTART button was pressed in the automatic operation mode. (Except during the test mode.)	Type of error E Stopped status L Clearing procedure S Brightness N (, ,) Type of error E Stopped status L Clearing
Action	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart. CORKPIECE PROGRAM NOT FOUND Automatic operation has started but the intended work number was not present. The intended work number was not present (the work number was 0) when the CYCLE RESTART button was pressed in the automatic operation mode. (Except during the test	Type of error E Stopped status L Clearing procedure S Brightness N (, ,) Type of error E Stopped status L
Action 145 W Cause	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart. CORKPIECE PROGRAM NOT FOUND Automatic operation has started but the intended work number was not present. The intended work number was not present (the work number was 0) when the CYCLE RESTART button was pressed in the automatic operation mode. (Except during the test mode.)	Type of error E Stopped status L Clearing procedure S Brightness N (, ,) Type of error E Stopped status L Clearing procedure
Action 145 W Cause	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart. CORKPIECE PROGRAM NOT FOUND Automatic operation has started but the intended work number was not present. The intended work number was not present (the work number was 0) when the CYCLE RESTART button was pressed in the automatic operation mode. (Except during the test mode.)	Type of error E Stopped status L Clearing procedure S Brightness N (, ,) Type of error E Stopped status L Clearing
Action 145 W Cause	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart. CORKPIECE PROGRAM NOT FOUND Automatic operation has started but the intended work number was not present. The intended work number was not present (the work number was 0) when the CYCLE RESTART button was pressed in the automatic operation mode. (Except during the test mode.)	Type of error E Stopped status L Clearing procedure S Brightness N (, ,) Type of error E Stopped status L Clearing procedure
Action 145 W Cause	The restart key was pressed before the single-process data search operation was completed. Data required for single-process start is not yet set. Set data, and then restart. CORKPIECE PROGRAM NOT FOUND Automatic operation has started but the intended work number was not present. The intended work number was not present (the work number was 0) when the CYCLE RESTART button was pressed in the automatic operation mode. (Except during the test mode.)	Type of error E Stopped status L Clearing procedure S Brightness N (, ,) Type of error E Stopped status L Clearing procedure S

142 CHANGE OPERATE MODE

146 EI		(, ,)
Cause	An EIA program was active when eingle-process operation was	Type of error
	started.	E
): ()	Stopped
		L
Action	Select a MAZATROL program and then start.	Clearing procedure
		S Brightness
		N
	AT MOST BATA NOT FOLING	
	There was no data when operation	Type of
Cause	was started in the test mode.	error
		Е
		Stopped status
		Lj
Action	Set data and then start.	Clearing procedure
		S
		Brightness
		N
148 HG	OME RETURN UNFINISH	(, ,)
Cause	Automatic starting was attempted	Type of
	with zero-point returning remaining	error
	undone. Automatic starting was attempted in	E
	spite of the fact that zero-point returning has not been done even a single time since the power was	Stopped status
	turned on. (Absolute-position detec- tor inoperative)	L
Action	Carry out a watchdog-type zero- point returning operation before	Clearing procedure
	starting automatic operation.	S
		Brightness
		N
140 0	YCLE START ON SYNCHRONIZED	(, ,)
Cause	Starting during sequential synchronous operation is impossible.	Type of error
	The CYCLE START button for the system in serial synchronous opera-	E
	tion was pressed in an attempt to start automatic oppration in a	Stopped status
17	manually-set axis serial synchronous operation ON status.	L
Action	Clear the serial synchronous opera- tion mode before pressing the	Clearing
	CYCLE START button.	S
	the off a point and a	Brightnes

18 -

	DOL SELECT MALFUNCTION	(, ,)
Cause	Automatic starting was attempted when nondesignated tool data was	Type of
	when noncesignated tool data was valid.	E
	An attempt was made to start auto-	
	matic operation immediately after the tool change was made by	Stopped status
	manual interruption.	L
Action	Replace the tool with the original one before starting automatic	Clearing
	operation.	S
	Action to the same	Brightness
		N
		4
	EIA/ISO OPTION	(, ,)
Cause	EIA operation was attempted in the absence of EIA options.	Type of error
		E
		Stopped status
Action	Purchase EIA options from your MAZAK service representative.	Clearing procedure
		Brightnes
-1		N
		N
152 AL	JTO START INHIB. (DATA BUSY)	(,,)
	An attempt was made to perform	(, ,)
	An allempt was made to perform loading data except program in the	(, ,) Type of error
	An attempt was made to perform toading data except program in the CMT I/O, TAPE I/O, or DNC I/O	(, ,) Type of error
	An allempt was made to perform loading data except program in the	(, ,) Type of error
Cause	An attempt was made to perform loading data except program in the CMT I/O, TAPE I/O, or DNC I/O mode.	(, ,) Type of error E Stopped status L
Cause	An attempt was made to perform loading data except program in the CMT I/O, TAPE I/O, or DNC I/O mode. Abort the loading operation, or walt for the loading operation to be	(, ,) Type of error E Stopped etatus L Clearing procedure
Cause	An attempt was made to perform toading data except program in the CMT I/O, TAPE I/O, or DNC I/O mode. Abort the loading operation, or walt for the loading operation to be through before proceeding to auto-	(, ,) Type of error E Stopped etatus L Clearing
Cause	An attempt was made to perform loading data except program in the CMT I/O, TAPE I/O, or DNC I/O mode. Abort the loading operation, or walt for the loading operation to be	(, ,) Type of error E Stopped status L Clearing procedure S Brightness
Cause	An attempt was made to perform toading data except program in the CMT I/O, TAPE I/O, or DNC I/O mode. Abort the loading operation, or walt for the loading operation to be through before proceeding to auto-	(, ,) Type of error E Stopped status L Clearing procedure
Action	An attempt was made to perform toading data except program in the CMT VO, TAPE VO, or DNC VO mode. Abort the loading operation, or walt for the loading operation to be through before proceeding to automatic operation.	(, ,) Type of error E Stopped status L Clearing procedure S Brightness
Action	An attempt was made to perform toading data except program in the CMT VO, TAPE VO, or DNC VO mode. Abort the loading operation, or walt for the loading operation to be through before proceeding to automatic operation. OFFSET NOT FOUND The MAZATROL program you were	(, ,) Type of error E Stopped status L Clearing procedure S Brightness i N
Action	An attempt was made to perform toading data except program in the CMT VO, TAPE VO, or DNC VO mode. Abort the loading operation, or walt for the loading operation to be through before proceeding to automatic operation. OFFSET NOT FOUND The MAZATROL program you were going to use to start automatic operation.	(, ,) Type of error E Stopped status L Clearing procedure S Brightnes: i N
Action	An attempt was made to perform toading data except program in the CMT VO, TAPE VO, or DNC VO mode. Abort the loading operation, or walt for the loading operation to be through before proceeding to automatic operation. OFFSET NOT FOUND The MAZATROL program you were	(, ,) Type of error E Stopped status L Ctearing procedure S Brightnes: i N (, ,) Type of error E Stopped
Action	An attempt was made to perform toading data except program in the CMT VO, TAPE VO, or DNC VO mode. Abort the loading operation, or walt for the loading operation to be through before proceeding to automatic operation. OFFSET NOT FOUND The MAZATROL program you were going to use to start automatic operation.	(, ,) Type of error E Stopped status L Ctearing procedure S Brightnes: i N (, ,) Type of error E Stopped status
Action	An attempt was made to perform toading data except program in the CMT VO, TAPE VO, or DNC VO mode. Abort the loading operation, or walt for the loading operation to be through before proceeding to automatic operation. OFFSET NOT FOUND The MAZATROL program you were going to use to start automatic operation does not have Z offset data.	(, ,) Type of error E Stopped status L Clearing procedure S Brightnes: i N (, ,) Type of error E Stopped status L
Action	An attempt was made to perform toading data except program in the CMT VO, TAPE VO, or DNC VO mode. Abort the toading operation, or walt for the loading operation to be through before proceeding to automatic operation. OFFSET NOT FOUND The MAZATROL program you were going to use to start automatic operation does not have Z offset data. Set Z offset data on the SET UP	(, ,) Type of error E Stopped status L Clearing procedure S Brightnes: i N (, ,) Type of error E Stopped status L Clearing
Action	An attempt was made to perform toading data except program in the CMT VO, TAPE VO, or DNC VO mode. Abort the loading operation, or walt for the loading operation to be through before proceeding to automatic operation. OFFSET NOT FOUND The MAZATROL program you were going to use to start automatic operation does not have Z offset data.	(, ,) Type of error E Stopped status L Clearing procedure S Brightnes: i N (, ,) Type of error E Stopped status L Clearing
Action 153 Z-	An attempt was made to perform toading data except program in the CMT VO, TAPE VO, or DNC VO mode. Abort the toading operation, or walt for the loading operation to be through before proceeding to automatic operation. OFFSET NOT FOUND The MAZATROL program you were going to use to start automatic operation does not have Z offset data. Set Z offset data on the SET UP	(, ,) Type of error E Stopped status L Clearing procedure S Brightness i N (, ,) Type of error E Stopped status L Clearing procedure

	LEGAL AXIS EXST9	(\cdot , \cdot)
Cause	The proximity detection limit switch overran the watchdog during	Type of error
	reference-point returning.	E
		Stopped
		L
Action	increase the length of the proximity watchdog or reduce the reference-point returning speed, and then	Clearing procedure S
	carry out the returning operation once again.	Brightness
	-4-4 1 il -11	N
404 2	AVIA NOT AGUAL ETER	/
	There is an axis that did not go	Type of
Cause	through the Z-phase of the delector	error
	during an initial reference-point	E
	returning operation following the power-on sequence.	Stopped
	Aller mailt in Samuel,	L
Action	Move the detector through more than one turn in an opposite direc-	Clearing procedure
	tion to that of the reference point, and then carry out the returning	S
	operation once again.	Brightnes
		N
162 0	RIGIN RETURN DIR. ILLEGAL AXIS	(, ,)
Cause		
32200	The direction of manual reference-	Type of error
	point returning is different from the axis move direction that has been	
	point returning is different from the	error
	point returning is different from the axis move direction that has been	A Stopped
	point returning is different from the axis move direction that has been selected using an axis move key. Select the correct direction using	A Stopped etatus I Clearing
	point returning is different from the axis move direction that has been selected using an axis move key.	A Stopped etatus I Clearing
Action	point returning is different from the axis move direction that has been selected using an axis move key. Select the correct direction using the axis move keys (+, -) and	A Stopped status I Clearing procedure S
	point returning is different from the axis move direction that has been selected using an axis move key. Select the correct direction using the axis move keys (+, -) and carry out the returning operation	A Stopped status I Clearing procedure
Action	point returning is different from the axis move direction that has been selected using an axis move key. Select the correct direction using the axis move keys (+, -) and carry out the returning operation once again.	Stopped etatus I Clearing procedure S Brightness
Action	point returning is different from the axis move direction that has been selected using an axis move key. Select the correct direction using the axis move keys (+, -) and carry out the returning operation once again. SIDE INTERLOCK AXIS Internal interlock is working.	A Stopped status I Clearing procedure S Brightness
Action	point returning is different from the axis move direction that has been selected using an axis move key. Select the correct direction using the axis move keys (+, -) and carry out the returning operation once again.	error A Stopped etatus I Clearing procedure S Brightnes N
Action	point returning is different from the axis move direction that has been selected using an axis move key. Select the correct direction using the axis move keys (+, -) and carry out the returning operation once again. SIDE INTERLOCK AXIS Internal interlock is working.	error A Stopped etatus I Clearing procedure S Brightnes N (, ,) Type of error
Action	point returning is different from the axis move direction that has been selected using an axis move key. Select the correct direction using the axis move keys (+, -) and carry out the returning operation once again. SIDE INTERLOCK AXIS Internal interlock is working.	Brightnes N Stopped etatus I Clearing procedure S Brightnes N Type of error A Stopped
Action	point returning is different from the axis move direction that has been selected using an axis move key. Select the correct direction using the axis move keys (+, -) and carry out the returning operation once again. SIDE INTERLOCK AXIS Internal interlock is working.	error A Stopped etatus I Clearing procedure S Brightnes N (, ,) Type of error A Stopped status L Clearing
Action 163 IN Cause	point returning is different from the axis move direction that has been selected using an axis move key. Select the correct direction using the axis move keys (+, -) and carry out the returning operation once again. SIDE INTERLOCK AXIS Internal interlock is working. • The serve-off function is active. Deactivate the serve-off function. • An inavaliable axis command is	Brightnes N Stopped etatus I Clearing procedure S Brightnes N Type of error A Stopped etatus L
Action 163 IN Cause	point returning is different from the axis move direction that has been selected using an axis move key. Select the correct direction using the axis move keys (+, -) and carry out the returning operation once again. SIDE INTERLOCK AXIS Internal interlock is working.	Brightnes N Stopped etatus I Clearing procedure S Brightnes N Type of error A Stopped etatus L Clearing procedure

164 C	UTSIDE INTERLOCK AXIS	(, ,)
770	There is an axis that has entered an interlocked status since the inter-	Type of error
	tock function has worked (Input	A
	signal off).	Stopped status
		L
Action	Since the Interlock function le valid, clear the Interlock before	Clearing procedure
	carrying out operations. Check the machine operation sequence program.	s
	Check for cable disconnections in the interlock signal line.	Brightnes
		N

165	NO OPERATE MODE	(, ,)
Caus	Disconnections in the input mode signal line, mode selector switch	Type of error
	malfunctions, operation mode data	A
Is not input	ls not input due to sequence pro- gram data errors.	Stopped status
		10
Action	Check for cable disconnections in the input signal line, for mode selector switch malfunctions, or for sequence program data errors.	Clearing procedure
		S
		Brightness
		N

167 E	CTERNAL FEEDRATE ZERO	(, ,)
Cause	 The override setting is zero. The manual feedrate for jog mode 	Type of error
	or automatic dry run mode opera-	Α
	tion is zero. • The cutting feedrate for test mode	Stopped status
	operation is zero.	L
Action	Change the override and the manual feedrale to values other	Clearing procedure
	than zero.	S
	If the override and the manual feedrate are not zero, check for	Brightness
	short-circuits in the signal line. • Check the sequence program.	N

169	STOP SPINDLE	(, ,)
Caus	The spindle or milling axis was at rest when the synchronous feed	Type of error
	command was latued.	D
		Stopped
		L
Action	Rotate the spindle. If work cutting is not in progress,	Clearing procedure
	eet the dry run mode. • Check for spindle encoder cable	S
	disconnections. Check for improper connector con-	Brightness
	nections of the spindle encoder. • Check the state of the spindle encoder pulses.	1 N

170 H	ANDLE AXIS NOT SELECTED	(\cdot,\cdot)
Cause	An axis not supported by selected specification is designated for pulse	Type of error
han han	handle feed operation, or pulse	Α
	handle feed operation is attempted without designating the axis to feed.	Stopped status
Action	Check for cable disconnections in the handle feed axis select signal line. Check the sequence program. Check the number of axes against the specifications.	Clearing procedure
		S
		Brightness
		N

171 SI	PINDLE ROTATE NO. OVER	(, ,)
Cause	The spindle speed exceeded the clamping speed of the axis when	lo equi
	the threading command was issued.	D
		Stopped status
		L
Action	Reduce the programmed speed of the spindle.	Clearing procedure
		S
		Brightness
		N

	BSOLUTE POSITION DETECTION ERR When the power was turned on, an	Type of
Cause	offset larger than 0.9 pitches of ball	error
	screw was detected to the position	E
	saved in memory, (only for absolute position system)	Stopped status
	TO RESIDENCE AND ADDRESS OF A STATE OF	1
Action	Carry out a watchdog-type zero- point returning operation.	Clearing procedure
		S
		Brightness
		N

177 T	OOL LIFE EXCEED TIME	(, ,)
Cause	The tool life time (LIFE TIME) that has been set on the TOOL DATA	Type of error
	display was exceeded during	E
	machining.	Stopped etatus
Action	(After changing the tool), reset the tool used time to zero.	Clearing procedure
- gue		S
		Brightness
		N

178 U	SED TOOL NUMBER EXCEED	(, ,)
Cause	The number of tools (USED NUM.) that has been set on the TOOL	Type of error
- 5.	DATA display was exceeded during machining.	E
4		Stopped status
Action	(After changing the tool), reset the number of tools to zero.	Clearing procedure
		S
		Brightness
		N.

179 X-	MAX OR Z-MAX OFFSET OVER	(, ,)
Cause	The maximum tool wear compensa- tion value (MAX WEAR) that has	Type of error
-	been set on the TOOL DATA display	E
	was exceeded during machining.	Stopped status
Action	(After changing the tool), reset the wear offset to zero.	Clearing procedure
		S
		Brightness
		N

180 SYNCHRONIZED OPERATION	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Brightness

181 E	T. SEARCH ERR. DURING OPERATION External searching was attempted	Type of
CEUST	during operation. If an attempt is	error
made to carry out a search operation do operation, external	made to carry out an external search operation during automatic operation, external searching will	E
	become impossible since the exter- nal search start signal will turn on and an external search request will	Stopped status
	be issued to the NC. A notice will be displayed at this time and automatic operation will continue.	L
Action		Clearing
		S
-		Brightness
	the second secon	N

182	NO DESIGNATED PROGRAM (EXT.)	(, ,)
Cau	The program that was selected the machining programs when a	
	external search request was issued does not exist for the following reasons: 1) The machining program itself does not exist. 2) The machining program area is unformatted.	ued E
		Stopped status
		Lis
Actio	Check If the selected program exists in the NC.	Clearing
	(-110 Welling Geliles II-lengaer III/IIIA)	S
		Brightness
		' N

184 ZI	ERO RETURN IMPOSSIBLE (MEASURE)	(-,-)
Cause	The zero-point returning mode can- not be selected in the following	Type of error
	cases: 1) The TOOL EYE is out of	E
	position. 2) The MEASURE START menu on	Stopped status
	the MANUAL MEASURE display is ON.	L
Action	1. Place the TOOL EYE back into position.	Clearing procedure
	2. Press the MEASURE START	S
	menu key on the MANUAL MEASURE display to turn the	Brightness
	menu off.	N

Cause	A motor ON/OFF thermal relay switch has tripped.	Type of error
		F
		Stopped status
		Н
Action		Clearing procedure
		N
		Brightness
		Н

204 S	PINDLE CONTROLLER MALFUNCTION	()
Cause	An alarm occurred at spindle con- troller.	Type of error
		F
		Stopped status
		Н
Action		Clearing procedure
		N
		Brightness
		Н

201 B	REAKER TRIP	(, ,)
Cause	The circuit breaker in the power line is tripped.	Type of error
	to tripped.	F
		Stopped
		H
Action		Clearing procedure
		N
		Brightness
		H.)

205 MILLING CONTROLLER MALFUNCTION (, ,)		
Cause	An alarm occurred at milling con- troller.	Type of error
	10-1001-1-12-1	F
		Stopped status
		Н
Action		Clearing
		N
	0	Brightness
	34	Н

	YDRAURIC PRESSURE DOWN	- 1
Cause	An oil pressure decrease below the required level has activated the	Type of error
	pressure switch.	F
		Stopped status
		Н
Action		Clearing procedure
		N
		Brightness
		Н

206	OPEN FRONT DOOR (EMERGENCY S	TOP) (, ,)
Caus	Front door is opened during aut matic operation.	O- Type of error
		F
1		Stopped status
		H
Actio		Clearing procedure
		N
		Brightness
		Н

203 A	IR PRESSURE DOWN	(-,)
Cause	An air pressure decrease below the required level has activated the pressure switch.	Type of error
		F
		Stopped status
		Н
Action		Clearing procedure
		N
	•	Brightness
		· H

207 EXT EMERGENCY STOP (, ,)		
Cause	An external emergency stop signal was input.	Type of error
		F
		Stopped status
		Н
Action		Clearing procedure
		N
		Brightness
		Н

208 I	MAGAZINE SHEAR PIN CUT	(, ,)	212 C	HUCK OPEN/CLOSE SWITCH MALF.	(, ,)
LEUSE	An alarm occurred during cutting-of		Cause	The signal from the chuck	Type of
	of the magazine shear protective	ептог		open/close switch remains ON.	error
+	pin. (MEGA TURN)	F	1.00		F
		Stopped		Year Labor Contract	Glopped
		status			status
		Н			-
Action		Clearing	Açtion		Clearing
		procedure			O
		N			
		Brightness	30		Brightnes
		Н			: H
209 1	NCORRECT TOOL EYE ARM POSITION	(, ,)	213 IL	LEGAL DESIGNATED TOOL NO.	(-, ,)
Cause	The TOOL EYE retraction end sen-	Type of	Cause	A T-code which must not be desi-	Type of
	sor is turned off during automatic	error F		gnated in the program is read, or	error
	operation (only for manual TOOL	-		the command which does not coincide with the magazine state is	
	EYE specification.)	Stopped		designated.	Stopped
		H		obsignatios.	1
Action		Clearing	Action		Clearing
ACTION		procedure	ACTION	1.00	procedure
		N	- 9 G		0
	- 78	Brightness	- 2100	1	Brightnes
		Diffinese			Budunies
		н	ne dished		н
210 IL	LEGAL DATA INPUT	(, ,)	214 P	C-PARAMETER INPUT ERROR	(, ,)
		Type of	Cause	An Inconsistency occurred with the	Type of
Cause	The input program data or parameter is incorrect.	епог	0000	parameters which determine the	error
	let is incomect.	33 F1			
				machine specification.	. F
	5 diff sublend of all many		lie-	machine specification.	
	Control of the second	Stopped status		machine specification.	
	Control of the second	Stopped			Stopped status
Action		Stopped status [Clearing	Action		Stopped status Clearing
Action	Control of the state of the sta	Stopped status [Clearing procedure			Stopped status ! Clearing procedure
Action		Stopped status [Clearing	Action		Stopped status Clearing
Ction		Stopped status [Clearing procedure	,		Stopped status i Clearing procedure
Action		Stopped status [Clearing procedure O Brightness	,		Stopped status I Clearing procedum O Brightnes
Action		Stopped status [Clearing procedure O	,		Stopped status i Clearing procedure
Action		Stopped status [Clearing procedure O Brightness	,		Stopped status Clearing procedure O
Action		Stopped status [Clearing procedure O Brightness			Stopped status I Clearing procedum O Brightnes
211 N	OT OPERATED M-CODE SIMULTA.	Stopped status [Clearing procedure O Brightness H		HUCK SYSTEM MALFUNCTION	Stopped status I Clearing procedum O Brightnes
211 N		Stopped status [Clearing procedure O Brightness H	215 C		Stopped status I Clearing procedum O Brightnes H (, ,) Type of error
211 N	OT OPERATED M-CODE SIMULTA. That combination of M-codes includes those which must not be used	Stopped status [Clearing procedure O Brightness H	215 C	HUCK SYSTEM MALFUNCTION An erroneous chucking action was	Stopped status Clearing procedure O
	OT OPERATED M-CODE SIMULTA. That combination of M-codes includes those which must not be used in combination.	Stopped status [Clearing procedure O Brightness H	215 C	HUCK SYSTEM MALFUNCTION An erroneous chucking action was	Stopped status Clearing procedure O Brightnes H
211 N	OT OPERATED M-CODE SIMULTA. That combination of M-codes includes those which must not be used	Stopped status [Clearing procedure O Brightness H (, ,) Type of error F	215 C	HUCK SYSTEM MALFUNCTION An erroneous chucking action was	Stopped status Clearing procedum O Brightnes H Type of error F
211 N	OT OPERATED M-CODE SIMULTA. That combination of M-codes includes those which must not be used in combination.	Stopped status [Clearing procedure O Brightness H	215 C Cause	HUCK SYSTEM MALFUNCTION An erroneous chucking action was	Stopped status Clearing procedum O
211 N	OT OPERATED M-CODE SIMULTA. That combination of M-codes includes those which must not be used in combination.	Stopped status [Clearing procedure O Brightness H (, ,) Type of error F Stopped status Clearing	215 C	HUCK SYSTEM MALFUNCTION An erroneous chucking action was	Stopped status Clearing procedum O
211 NO	OT OPERATED M-CODE SIMULTA. That combination of M-codes includes those which must not be used in combination.	Stopped status [Clearing procedure O Brightness H Type of error F Stopped status Clearing procedure	215 C Cause	HUCK SYSTEM MALFUNCTION An erroneous chucking action was	Stopped status I Clearing procedum O Brightnes H I Type of error F Stopped status I Clearing procedum
211 NO	OT OPERATED M-CODE SIMULTA. That combination of M-codes includes those which must not be used in combination.	Stopped status [Clearing procedure O Brightness H (, ,) Type of error F Stopped status Clearing	215 C Cause	HUCK SYSTEM MALFUNCTION An erroneous chucking action was	Stopped status Clearing procedum O

216	· CROSS RAIL OVERLOAD	(\cdot , \cdot)
Cause	The crossrail drive has become overloaded. (MEGA TURN)	Type of error
	evenoaded. (MEGA 10711)	F
		Stopped status
Action		Clearing procedure
		0
		Brightnes
		Н
217	NC ALARM IN Z1, Z2 SYNCH.	(, ,)
Cause	During the synchronized mode operation, an alarm occurred with either	Type of error
	of Z1 and Z2. (MULTI PLEX 620).	F
		Stopped status
	401	
Action		Clearing
		0

220 T	The turret index sensor falls to function.	Type of error
	Turicuon.	F
		Stopped status
		K
Action		Clearing
		0
		Brightness
	1 11 1	н

217 N	C ALARM IN Z1, Z2 SYNCH.	(\cdot , \cdot)
Cause	During the synchronized mode operation, an alarm occurred with either	Type of error
	of Z1 and Z2. (MULTI PLEX 620).	F
	0, 2, 3, 2	Stopped status
	100	
Action		Clearing procedure
111		0
	1	Brightness
		н

Cause	The turret clamp/unclamp sensor fails to function, or both of them are	Type of error
	ON simultaneously.	F
	014 04:101.001.00	Stopped
		K
Action	Clearing procedure	
	A	0
		Brightness
		Н

218 CI	ECKING TYPE NOT SELECTED	(,,)
Cause	Type of chucking (inner/outer) of spindle chuck is not selected.	Type of error
	(Outer chucking was selected for a	FI
	collet chuck.)	Stopped status
Action		Clearing procedure
		0
		Brightness
		Н

222 T	AILSTOCK BODY SENSOR MALF.	(, ,)
Cause	The tailstock body position detection sensors fall to function, or both of	Type of error
	the sensors are ON simultaneously.	F
		Slopped status
0.0010	11	K
Action		Clearing
-	and the same of th	
	7.	Brightness
		H

Type of error
Stopped status
Clearing procedure
Brightness

223 T	AILSTOCK QUILL SENSOR MALF.	(, ,)
Cause	The tallstock spindle position detec- tion sensors fall to function, or both	Type of error
	of the sensors are ON simulta-	F
	neously.	Stopped status
	i i	К
Action		Clearing procedure
		0
		Brightness
		i H

Cause	The chuck open/close confirmation sensors fall to function, or both of	Type of error
1500	the sensors are ON simultaneously.	F
-		Stopped status
-	- 0"	K
Action	¥8	Clearing procedure
		0
	,	Brightness
		Н

Cause	The C-axis servo shift confirmation sensors fail to function, or both of	Type of error
	the sensors are ON simultaneously.	F
		Stopped status
		K
Action		Clearing procedure
		0
		Brightness
		- · H

	RONT DOOR SENSOR MALFUNCTION	7000 00
Cause	The front door open/close confirma- tion sensors fall to function, or both	Type of error
	of the sensors are ON simulta-	F
	neously.	Stopped status
		К
Action	liv.	Clearing procedure
	97	0
-		Brightness
		H I

Cause	The spindle clamp state confirma- tion sensors fail to function, or both	Type of error
	of the sensors are ON simulta-	F
	neously.	Stopped status
		K
Action		Clearing procedure
		0
	10	Brightness
		I B

226 SI	PINDLE GEAR SHIFT SENSOR MALF.	(, ,)
Cause	The spindle gearshift position detec- tion sensors fall to function, or more	Type of error
	than one sensor is ON simulta-	F
	neously.	Stopped etatus
		K
Action		Clearing procedure
		0
	9.0	Brightness
		Н

230	ORIENT INDEX PIN SENSOR MALF.	$(\cdot \cdot \cdot)$
Cause	The Index orient pin IN/OUT confirmation sensors fall to function, or	Type of error
	both of the sensors are ON simul-	· F
-	taneously.	Stopped status
		K
Actio	1	Clearing procedure
-	-	0
	P.	Brightness
		н

Cause	The mill spindle gearshift position detection sensors fall to function, or	Type of error
	more than one sensor is ON simul-	F
	taneously.	Stopped status
		K
Action	×	Clearing procedure
	85.	0
		Brightness
		Н

231 Tt	DOL EYE POSITION SENSOR MALF.	(,,)
Cause	The TOOL EYE EXT/RET. confirma- tion sensors fail to function, or both	Type of error
	of the sensors are ON simulta-	F
	neously.	Stopped status
		K
Action		Clearing procedure
12	_	0
		Brightness
U. I		Н

Cause	The magazine positioning confirma- tion sensor falls to function.	Type of error
		F
		Stopped status
	P	К
Action		Clearing procedure
		0
		Brightnes
		Н

Cause	The parts catcher ADV/RET. confirmation sensors fail to function, or	Type of error
	both of the sensors are ON simulta-	F
	neously.	Stopped status
		K
Action		Clearing
		0
		Brightner
		н

Cause	The magazine cover open/close confirmation sensors fail to function,	Type of error
	or both of the sensors are ON	F
	simultaneously.	Stopped status
		К
Action		Clearing procedure
		0
		Brightness
		н

Cause	The cross-rail clamp confirmation sensors fall to function, or both of the sensors are ON simultaneously. (MEGA TURN)	Type of error
		F
		Stopped status
		K
Action		Clearing procedure
	NV.	0
	15	Brightness

Cause	The ATC type, tool clamp confirmation sensors fall to function, or both of the sensors are ON simultaneously.	Type of error
		F
		Stopped status
		К
Action		Clearing procedure
		0
		Brightness
		н

238 C	ROSS-RAIL POSITION SENSOR MALF.	_(_,_)
Cause	The cross-rall position detection sensor fails to function. (MEGA TURN)	Type of error
		; F
		Stopped
		К
Action		Clearing procedure
		0
		Brightness
		Н

235 A	TC-ARM SENSOR MALFUNCTION	(, ,)
Cause	The ATC arm operation confirmation sensors fail to function, or both of the sensors are ON simultaneously.	Type of error
		F
	tile seriosia are en en en	Stopped status
		К
Action		Clearing procedure
		0
		Brightness
		н

Cause	The sensor at the coupling side of the mill spindle coupling falls to function, or the sensors confirming the opy-sing operation are ON simultaneously. (MULTIPLEX 620)	Type of error
		F
		Stopped status
		K
Action		Clearing procedure
		0
		Brightness
		'H

240 4	AGAZINE CONTROLLER MALF.	1 1
Cause	An alarm occurred at the magazine controller.	Type of error
•		F
		Stopped status
		К
Action	Eliminate cause of alarm at the controller.	Clearing procedure
		0
		Brightnes
		Н

244 P	ALLET CHANGE CONTROLLER MALF.	(, ,)
Cause	An alarm occurred at the pallet changer controller.	Type of error
		F
		Stopped status
		K
Action	Eliminate cause of alarm at the con- troller.	Clearing procedure
		0
		Brightness
	W	н

241 A	JC CONTROLLER MALFUNCTION	1 1
Cause	An alarm occurred at the AJC controller.	Type of error
- 1		F
		Stopped status
-		K
Action	Eliminate cause of alarm at the controller.	Clearing procedure
		0
		Brightnes
		Н

245 B	AR-FEEDER CONTROLLER MALF.	(, , ,)
Cause	An alarm occurred at the bar feeder controller.	Type of error
		F
		Stopped etatus
		К
Action	Eliminate cause of alarm at the controller.	Clearing procedure
		0
		Brightness
1		н

242 F	OBOT CONTROLLER MALFUNCTION	(,,)
Cause	An alarm occurred at the robot controller.	Type of error
	Controller.	F
		Stopped status
100 B		К
Action	Eliminate cause of alarm at the con- troller.	Clearing procedure
	woner.	0
		Brightnes
-		— н

246	LOADER CONTROLLER MALFUNCTIO	N ()
Caus	An alarm occurred at the loader controller.	Type of error
		F
		Stopped etatus
		K
Actio	Eliminate cause of alarm at the c	on- Clearing procedure
		0
		Brightness
4		Н

243 N	EASURING CONTROLLER MALF.	(, ,)
Cause	An alarm occurred at the measure- ment controller.	Type of error
	IIIBAR COMMONO.	F
		Stopped status
		K
Action	Eliminate cause of alarm at the con-	Clearing procedure
	troller.	Ó
	•	Brightness
		Н

247 B	ORING BAR CONTROLLER MALF.	()
Cause	An alarm occurred at the boring bar controller.	Type of error
		F
		Stopped etatus
		К
Action	Eliminate cause of atarm at the con- troller.	Clearing procedure
	255	0
		Brightness
		Н

0 Brightness

248 E	XTERNAL CONTROLLER (No. 1) MALF.	(, ,)	252 A	XIS MOVE MISOPERATION	(, ,)
Cause	Fallure of controller of a peripheral	Type of	Cause	An exis move command was issued	Type of
	(option).	error		during the ON state of the axls	error
		F		interlock signal.	Stopped
		Stopped		24	status
	•	К			K
Action		Clearing	Action		Clearing
		procedure			O
	0	40			
		Brightness			Brightnes
		Н.	-		1 H
					-
	CONTROLLED DI LO MALE		253 8	PINDLE OVERLOAD DETECTION	(, ,)
	XTERNAL CONTROLLER (No. 2) MALF.	Type of	Cause	The spindle overload signal is tur-	Type of
Failure of controller of a periphe (option).	, .	error		ned ON: spindle overload detection	елтог
	(option).	F	1	is activated with M70/M71.	F
		Stopped	180		Stopped status
		etatue K			К
		Clearing	Action		Clearing
Action		procedure			procedure
		0			0.
		Brightness			Brightnes
		-			TH
		Н			
				ALCOHOL COURT OFFI	, ,
250 S	PINDLE START MISOPERATION	(,,)		AGAZINE COVER OPEN	Type of
Cause	The spindle rotation start command	Type of error	Cause	During automatic operation, the magazine cover was opened erro-	епог
	was issued during the disabled	F		neously.	F
	state of spindle rotation, specified by a chuck open command, a mea-			·	Stopped
	surement command etc.	status			status
		K			K Clearing
Action		Clearing	Action	- all y days - converse of	procedure
	-	procedure			0
		0	1		_

Brightness

251 MILLING	MOTOR ROTATION PROHIB.	(, ,)
Cause The r	nilling motor rotation start com- was issued during the disa-	Type of error
hied	state of milling, specified by a	F
chuck	c open command, a measure- command etc.	Stopped status
III.		К
Action		Clearing procedure
		0
	•	Brightness
		· H

Cause	During automatic operation, the coolant cover was opened.	Type of error
	COOIMIL COVER WAS OPERIOD.	F
		Stopped status
		K
Action		Clearing procedure
		0
		Brightness
	•	H

256	TURRET ROTATION PROHIBITED	(,,)	260 SLIDEWAY LUBRICATION ALARM	(, ,
Cause	The turret rotation command is	Type of error	Cause The sliding surface pressure switch worked for a predetermined time.	Type o
	given during turret rotation prohibi- ted state.	F	worked for a predetermined time.	F
		Stopped		Stoppe
	B 2	status		statue
		K	A-Mar I	Clearin
Action	J	Clearing	Action	procedu
	·	0	TV TV	Q
		Brightness	In the second se	Brightne
		н	M.	N
257	LLEGAL M CODE	(, ,)	261 HEAD LUBRICATION ALARM	(, ,
Cause	An illegal M code has been spe-	Type of	Cause The spindlehead pressure switch	Type of
	cified	error	worked for a predetermined time.	error
		Stopped	A COLET	Stopped
		status	The second secon	status
		K		J
Action		Clearing	Action	Clearing
		procedure	4 5 0	procedu
			-	
		Brightness	The Court of the C	Brightne
		Н	maril.	N
	No. MISMATCH	(1,4,1)	262 TABLE LUBRICATION ALARM	Type of
Cause	The No. of the tool to be restarted and that before the interruption dif-	Type of error	Cause The table pressure switch worked for a predetermined time.	error
	fers at the restart after the manual	F	tor a productiminos anto.	F
	Interruption in the automatic mode.	Stopped	a material	Stopped
		etatus	1000	status
		J	2-01	Clearing
Action		Clearing procedure	Action	procedur
		Q		Q
		Brightness	- ing-it	Brightne
		N	-	N.
259 M	ODE CHANGE IMPOSSIBLE	(, ,)	263 TAILSTOCK LUBRICATION ALARM	(
Cause	An attempt was made to change the	Type of	Cause The talistock pressure switch wor-	Type of
	operation mode while it was pro-	епог	ked for a predetermined time.	error
	hibited.	F	The second second second	Stopped
		Stopped status	4 500	atatus
		J		J
Action		Clearing	Action	Clearing
CHON		procedure	- p	procedu
		Q	1	<u> </u>
		Brightness		Brightne
		Disgrammes		

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Brightness

264 TI	HERMAL TRIP (SINGLE BLOCK)	(, ,)	268 C	AXIS GEAR LUBRICATION ALARM	<u>(, ,) </u>
Cause	A motor ON/OFF thermal relay	Type of	Cause	The pressure switch monitoring C-	Type of
	switch has tripped that does not	ettot.	- 67 - 4	exis gear lubrication pressure has	error F
-	have direct effects on the machining	F		been actuated for more than preset period.	Stopped
	capabilities of the chip conveyor	Stopped status		period.	status
	motor or other sections.	status .			J
		Clearing	Action		Clearing
Action		procedure			procedure
		Q			<u> </u>
		Brightness			Brightness
		N			N
		(269		(, ,)
	OOLING FAN MALFUNCTION	Type of	Cause		Type of
Seuse	An alarm occurred because the control panel cooling fan stopped	error			error
	rotating.	F			
		Stopped			Stopped
		status			\$10103
		Clearing	Action		Clearing
Action		procedure	PETION		procedure
		Q	0		
		Brightness			Brightness
		N		•	
			070 0	PINDLE ORIENT EXCEED TIME	(, ,)
266 IF	REGAL M-CODE	7000	Cause		Type of
Cause	An illegal M code has been specified.	Type of error	Cause	is not turned on 10 seconds after	error
	Cnied.	11		the Issuance of the orientation	F
		Stopped	li kommen	command.	Stopped
		status	-		atatus
					Clearing
Action		Clearing	Action	J	procedure
		pibocdare			Р
		Brightness			Brightness
					N
				THE PARTY SHAPE	, ,
267 BA	ALL SCREW LUBRICATION ALARM	(,,)		ILL-SPINDLE ORIENT EXCEED TIME	Type of
Cause	The pressure switch monitoring ball	all Type of	Cause	The orientation confirmation signal is not turned on 10 seconds after	error
	screw lubrication pressure has been	F	the issuance of the orientation	the issuance of the orientation	F
	actuated for more than preset period.	Stopped status		command.	Stopped status
	51103		J		
		Clearing	Action		Clearing
				_	procedure
Action	J	procedure	· III - III - II		Р

•	30	•
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Brightness N

272 TURRET INDEX EXCEED TIME	(, ,)	276 ATC CYCLE EXCEED TIME	())
The turnet index confirmation signal is not turned on seconds after the issuance of the turnet index command.		Cause The ATC completion signal is not	Type of
	error	turned on seconds after the	error
	F	issuance of the ATC command.	F
	Stopped status		Stoppe
	J	N. T.	J
lation	Clearing	Action	Clearin
Action	procedure	- Action	procedu
	Р		Р
	Brightness		Brightne
	N		' N
273 MAGAZINE INDEX EXCEED TIME	(,,)	277 BAR-FEEDER CYCLE EXCEED TIME	(, ,
The magazine Index confirmation signal is not turned on seconds after the issuance of the magazine index command.	Type of error	Cause The bar feeder completion signal is not turned on_seconds after the	Type o
	F	Issuance of the bar feeder	F
	Stopped status	command.	Stoppe
	J	The state of the s	J
Action	Clearing	Action	Clearin
UHH	procedure		procedu
	Р		Р
	Brightness	***************************************	Brightne
	N		N
		OTO DALLET CHANGE EVOSED THE	21
274 AJC CYCLE EXCEED TIME Cause The AJC confirmation signal is not turned on seconds after the issuance of the AJC command.	7, ,)	278 PALLET CHANGE EXCEED TIME Cause The pallet change completion sign is not turned on seconds after the issuance of the pallet change command.	Type of
	Type of error		ettot
	F		F
	Stopped		Stopped
	atatus		status
	J		J
Action	Clearing	Action	Clearing
	procedure	1	procedu
	Р		Р
	Brightness	- Control	Brightne
	N	ш	N
75 ROBOT SERVICE EXCEED TIME	(,,)		(, ,
The robot service completion signal is not turned on seconds after	Type of error	Cause The parts catcher completion signal is not turned on seconds after	Type of error
the Issuance of the robot service	F	the Issuance of the parts catcher	F
command.	Stopped status	command.	Stopped
	J		J
etion	Clearing procedure	Action	Clearing
	Piccedole		P. Jespai
	D		D
	Р		Р
	P Brightness		Brightner

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280 TAIL	STOCK BODY EXCEED TIME	(, ,)	284 M	SPINDLE GEARSHIFT EXCEED TIME	(, ,)
Cause The tailstock body positioning completion signal is not turned on seconds after the issuance of the tailstock body positioning command.	Type of	error tion si	The mill spindle gearshift comple-	Type of	
			tion signal is not turned on	error F	
	F	7 -	seconds after the Issuance of the	-	
	Stopped	lus	Mill spindle gearsnift command.	Stopped	
	status		J.		
		J		·	Clearing
Action	Clearing	Action		procedun	
	procedure			Р	
	Р				
	Brightness	100	·	Brightnes	
	N	14		N	
281 TAILS	STOCK QUILL EXCEED TIME	(, ,)	285 C	AXIS CONNECT EXCEED TIME	(, ,)
Cause Ti	he tallstock spindle IN/OUT com-	Type of	Cause	The C-axis mode selection comple-	Type of
pletion signal is not turned on	error		tion signal is not turned on	error	
_ 86	econds after the issuance of the	F		seconds after the Issuance of the	F
ta	tailstock spindle IN/OUT command.	Stopped	-	C-exis mode selection command.	Stopped
		status			J
		J			Clearing
Action		Clearing procedure	Action		procedur
	P			P	
				Brightnes	
	Brightness				
	N	M		N N	
282 CHU	CK CLAMP EXCEED TIME	(, ,)	286 F	RONT DOOR EXCEED TIME	(, ,)
Cause T	he spindle chuck open/close com-	Type of	Cause	The automatic door open/close	Type of error
D	pletion signal is not turned on	епог		completion signal is not turned on	
56	econds after the issuance of the	F	- 5	_ seconds after the Issuance of the	
spindle chuck open/close command.	Stopped		automatic door open/close command.	Stopped	
	status	100		J	
	J			Clearing	
Action	Clearing procedure	Action		procedur	
	P			P	
				Brightnee	
		A STATE		N	
	N	- 19		I N	
	DLE GEARSHIFT EXCEED TIME	(, ,)		ROSS-RAIL POSITION EXCEED TIME	Type of
Cause T	he spindle gearshift completion	Type of	Cause	The cross-rail positioning comple-	error
signal is not turned onaeconds after the issuance of the spindle gearshift command.	error		tion signal is not turned on	F	
			seconds after the issuance of the cross-rail positioning command.	Stopped	
	Stopped	5.0 00000	cross-rail positioning command.	status	
	1			J	
		Clearing	Antion		Clearing
Action	Action	procedure	Action	J	procedu
		P			Р
		P Brightness			Brightne

288	(, ,)	292 SENSOR MALFUNCTION No. 3	(, ,)
Cause	Type of	Cause An alarm is given when a sensor of	Type of
	епог	a peripherary (option) is faulty.	error F
	Stopped status		Stopped status
	Oleadas	Action	J Clearing
Action	Clearing procedure	Action	procedure
			Р
	Brightness		Brightness
			N
289	(, ,)	293 SENSOR MALFUNCTION No. 4	(, ,) ·
Cause	Type of error	Cause An alarm is given when a sensor of a peripherary (option) is faulty.	Type of error
		a periprietary (opnorty to laury).	F
.V	Stopped		Stopped
	status		status
Action	Clearing	Action	Clearing
Action	procedure		procedure
			Р
	Brightness	(in thirty)	Brightness
		10	N
290 SENSOR MALFUNCTION No. 1	(, ,)	294 SENSOR MALFUNCTION No. 5	(, ,)
Cause An alarm is given when a sensor of	Type of error	Cause An alarm is given when a sensor of	Type of error
a peripherary (option) is faulty.	F	a peripherary (option) is faulty.	F
	Stopped		Stopped
	status	- Halw	etatus J
	Clearing	Action	Clearing
Action	procedure	Petion	procedure
	Р	NI I	P
	Brightness		Brightness
	N a	TI TI	N
			17.
291 SENSOR MALFUNCTION No. 2	(, ,)	295 SENSOR MALFUNCTION No. 8	(,,)
Cause An alarm is given when a sensor of	Type of	Cause An alarm is given when a sensor of	Type of error
a peripherary (option) is faulty.	error F	a peripherary (option) is faulty.	F
count.	Stopped	The state of the s	Stopped
	etatus	Titalia .	status
	J		Clearing
Action	Clearing procedure	Action	procedure
	P		Р
	Brightness	ing Marin	Brightness
	- A)		· N

N

296 SENSOR MALFUNCTION No. 7	(, ,)	300 START COND. ERR. (DOOR OPEN)	(, ,)
Cause An alarm is given when a sensor of a peripherary (option) is faulty.	Type of error	Cause An attempt has been made to start the machine with the front cover	Type of error
	F	open.	F
	Stopped status		Stopped status
	J		L
Action	Clearing	Action	Clearing
	procedure		S
	Brightness		Brightness
	N		N
297 SENSOR MALFUNCTION No. 8	(,,)	301 START COND. ERR. (TUR UNCLAMP)	(, ,)
Cause An alarm is given when a sensor of	Type of	Cause An attempt has been made to start	Type of
a peripherary (option) is faulty.	error	the machine with the turret unclamped.	error F
	Stopped	1	Stopped
	status		L
Action	Clearing	Action	Clearing
211011	procedure		procedure S
	Brightness	•	Brightness
	N		N
			-
298 SENSOR MALFUNCTION No. 9	(, ,)	302 START COND. ERR. (EXT RESET)	(, ,)
Cause An alarm is given when a sensor of	Type of	Cause An attempt has been made to start	Type of
a peripherary (option) is faulty.	error	the machine with the external reset	error
	F	signal ON.	F
	Stopped status		Stopped status
	J		L
Action	Clearing	Action	Clearing
	procedure		S
	Brightness		Brightnes
	N		N
	N		
		303 START COND. ERR. (EXT FEED HOLD)	(, ,)
299 SENSOR MALFUNCTION No. 10	Type of	Cause An attempt has been made to start	Type of
Cause An alarm is given when a sensor of a peripherary (option) is faulty.	error	the machine with the external feed	error
	F Stopped	hold signal ON.	Stopped
	status		status
	J	Antico I	Clearing
Action	Clearing	Action	procedure
•	Procedure		S
	F -		
	Brightness		Brightnes

Cause	An attempt has been made to start the machine with the pallet	Type of error
	unclamped.	F
	P	Stopped status
Action		Clearing
		S
		Brightnes
		N ·

Cause	An attempt was made to start the cycle with the TOOL EYE sensor	Type of error
	extended.	F
		Stopped status
	IC .	L
Action		Clearing procedure
		S
		Brightnes
		· N

305 C	S ERROR (ATC COVER OPEN)	()
Cause	An attempt was made to start the cycle with the ATC cover opened.	Type of error
	Cycle will the Alo botol opolical	F
		Stopped
		L
Action		Clearing procedure
		S
		Brightness
		N

309 C/S ERROR (MIS-CHUCKING) (, ,)		
Cause	An attempt was made to start the cycle with the chuck workpiece	Type of error
	clamp confirmation signal OFF.	F
		Stopped status
		L
Action		Ctearing procedure
		S
		Brightness
		N

306 C	S ERROR (MAGAZINE COVER OPEN)	(,,)
Cause	An attempt was made to start the cycle with the magazine cover	Type of error
	opened.	F
		Stopped status
		- 1
Action		Clearing procedure
		S
		Brightness
		N

Cause	When restarting the cycle after the manual operation carried by inter-	Type of error
	rupting the automatic cycle, the tool	F
	number used is different from the one used before the operation inter-	Stopped status
	ruption.	L
Action		Clearing procedure
		S
		Brightness
		N

Cause	An attempt was made to start the	Type of error
	operation while the tool was in the unclamped state (ATC type)	F
	Uncompet sens (no spec	Stopped status
		L
Action		Clearing
		S
		Brightness
		N.

311	CA	S ERROR (TAILSTOCK QUILL)	(, ,)
Cause		When restarting the cycle, the tails- tock guill position differs from the	Type of error
position before the operation inter-	F		
		ruption. The tallstock quill position for cycle restart is improper.	Stopped status
			L
Action	n	Į.	Clearing procedure
			S
			Brightness
			N

312 C	S ERROR (PT-CATCHE EXTEND)	(, ,)
Cause	An attempt was made to start the cycle with the parts catcher in the	Type of error
	EXTEND position.	F
		Stopped status
		L
Action		Clearing procedure
		S
		Brightness
		N
313 C	S ERROR (T/S QUILL COMMAND)	(, ,)
313 C	An attempt was made to start the	Type of error
	An attempt was made to start the cycle in other than the following	1
	An attempt was made to start the	error F
	An attempt was made to start the cycle in other than the following conditions: Tailstock spindle advance or retraction command ON,	F Stopped

316 C	YCLE START CONDITION ERROR 3	(, ,)
Cause	An alarm is given when conditions of a peripherary (option) are faulty.	Type of error
	of a poliphotaly (option) are transfer	F
		Stopped etatus
Action		Clearing
		S
		Brightness
		N

313 0	S ERROR (T/S QUILL COMMAND)	(, ,)
Cause	An attempt was made to start the cycle in other than the following	Type of error
	conditions: Tailstock spindle advance or retraction command ON, and retraction end LS actuated.	F
-		Stopped status
		L
Action		Clearing procedure
		S
		Brightness
	11	N

317	CYCLE START CONDITION ERROR 4	(, ,)
Cause	An alarm is given when conditions of a peripherary (option) are faulty.	Type of error
-	or a periprietary (option) are really.	F
		Stopped status
		L
Action		Clearing procedure
		S
		Brightness
		N

Cause	An alarm is given when conditions of a peripherary (option) are faulty.	Type of error
or a peripherary (option) are is	of a peripherary (option) are rapidy.	F
		Stopped status
		L
Action		Clearing procedure
		S
		Brightness
		N

318 C	YCLE START CONDITION ERROR 5	(, ,)
Cause	An alarm is given when conditions of a peripherary (option) are faulty.	Type of error
		F
		Stopped etatus
		L
Action		Clearing
		procedure
		S
		Brightness
		N

315 CYCLE START CONDITION ERROR 2	(,,)
Cause An alarm is given when conditions of a peripherary (option) are faulty.	Type of error
Of a periprietary (option) are trains.	F
	Stopped
	L
Action	Clearing procedure
	S
	Brightness
	N

319 C	YCLE START CONDITION ERROR 6	(, ,)
Cause	An alarm is given when conditions of a peripherary (option) are faulty.	Type of error
	of a paripriorary (aparent are re-in-	F
		Stopped status
		L
Action		Clearing procedure
		S
		Brightness
		N

Cause	The tool unclamp command was given while the mill spindle motor is rotating.	Type of error
		F
		Stopped status
		L
Action		Clearing procedure
		Q
		Brightness
		N

324 D	IFF. MODE (ORIGIN RET UNFIN.)	(, ,)
Cause	Any of the automatic operation	Type of error
	carrying out the zero return opera-	F
	tion after the power supply has been turned on or the emergency	Stopped status
	stop state had been released.	L
Action		Clearing
	·	Q
		Brightness
		N

Cause	An attempt was made to change the operation mode while the ATC is	Type of error
5	operating.	F
		Stopped
Action		Clearing procedure
		Q
		Brightness
		N

325	TL. EYE EXT. IMP (T/S QUILL EXT)	(, ,)
Cause	The TOOL EYE extend command was given although the tailstock	Type of error
	epindle retraction end confirmation	F
	sensor is not ON.	Stopped status
		- Dil
Action		Clearing procedure
		Q
-		Brightness
		N

Cause	The rapid feed mode was selected without carrying out the zero return operation after the power supply had been turned on or the emergency stop state had been released.	Type of error
		F
711		Stopped etatue
Action		Clearing procedure
-		Q
		Brightnes
		N

Caus	The tailstock spindle advance comand was given although the TC	
	EYE is in the extend position.	F
		Stopped status
		L
Action	1	Clearing
		Q
		Brightness
		N

323 C	OFF. MODE (TOOL SET MEASURING)	(, ,)
Cause	The rapid feed mode or zero return mode was selected for the tool set measurment operation.	Type of error
		Stopped status
Action		Clearing procedure
		Brightness

327 NOT IN ATC START POS	TION (,,)
Cause The turret is not at to position when the A	
manually operated.	F
	Stopped status
	L
Action	Clearing procedure
	Q
	Brightness
	N

328	TL EYE MES IMP. (MGZN CVR OPEN)	(, ,)
Cause	The magazine cover was closed when the TOOL EYE measurement	Type of error
	command was executed.	F
- 1		Stopped status
		L
Action		Clearing procedure
		Q
		Brightnes
		N
329	CHUCKING SELECTION PROHIBITED	(, ,)
Cause	Chuck inner/outer chucking switch is operated in the next condition.	Type of error
	Spindle or mill spindle turning	F
	During automatic operation	Stopped

332 M	IISOPERATION No. 3	(_,_,)
Cause	An alarm is given when misopera- tion is made for a peripherary	Type of error
	(option).	F
		Stopped etatus
		L
Action		Clearing procedure
		Q
		Brightness
		N

329 C	HUCKING SELECTION PROHIBITED	(, ,)
Cause	Chuck inner/outer chucking switch is operated in the next condition. Spindle or mill spindle turning	Type of error
		F
	During automatic operation	Stopped status
		L
Action		Clearing procedure
	·	Q
		Brightness
		N

333 MISOPERATION No. 4		
Cause	An alarm is given when misopera- tion is made for a peripherary	Type of error
	(option).	F
	(op.iii)	Stopped
		L
Action		Clearing procedure
		Q
		Brightnes
		N

330 N	MISOPERATION No. 1	(_,_,)
Cause	An alarm is given when misopera- tion is made for a peripherary	Type of error
	(option).	F
	(opnory.	Stopped status
		L
Action		Clearing procedure
		Q
		Brightness
		N

334 N	ISOPERATION No. 5	()
Cause	An alarm is given when misopera- tion is made for a peripherary (option).	Type of error
		F
		Stopped
		L
Action		Clearing procedure
		Q
		Brightness
		N

331 MISC	PERATION No. 2	(,,)
Cause A	n alarm is given when misoper	a. Type of error
	tion is made for a peripherary (option).	F
	5piloti).	Stopped
		L
Action		Clearing procedure
		Q
		Brightness
		N

335 N	ISOPERATION No. 6	(, ,)
Cause	An alarm is given when misopera- tion is made for a peripherary	Type of error
	(option).	F
		Stopped
		L
Action		Clearing procedure
		Q
		Brightness
		N

Cause	An alarm is given when misopera- tion is made for a peripherary	Type of error
	(option).	F
		Stopped status
411	·	n L
Action		Clearing procedure
		Q
		Brightness
		N

Cause	The workpiece material detection sensor at the material supply side is turned off causing the cycle time over.	Type of error
		F
		Stopped status
Action	lt .	Clearing procedure
		Q
		Brightness
		N

Cause	An alarm is given when misopera- tion is made for a peripherary	Type of error
100	(option).	F Stopped status
Action		. Clearing procedure
		Q
		Brightness
		N

Cause	The workpiece unloading side sensor is turned on causing the cycle	Type of error
	time over.	F
		Stopped status
		L.
Action		Clearing procedure
		Q
		Brightness
UE.		N

330 N	ISOPERATION No. 9	
Cause	An alarm is given when misopera- tion is made for a peripherary (option).	Type of error
		F
HE	(opinoty)	Stopped status
160		L.
Action		Clearing procedure
		Q
		Brightness
		N

Cause	An alarm is given when conditions for a peripherary (option) are not all	Type of error
	met.	F
		Stopped status
		L
Action	4	Clearing procedure
		Q
		Brightness
		N

339 h	ISOPERATION No. 10	(, ,)
Cause	An alarm is given when misopera- tion is made for a peripherary	Type of error
	(option).	F
•	(option).	Stopped status
		L
Action		Clearing procedure
		Q
		Brightness
		N

Cause	An alarm is given when conditions for a peripherary (option) are not all met.	Type of error
		F
	Wien	Stopped status
4		L
Action	U	Clearing procedure
2		Q
MEHI		Brightness
		N

344 CC	ONDITION No. 5	(, ,)	348 C	ONDITION No. 9 MISSING	(, ,
Cause	An alarm is given when conditions	Type of	Cause	An alarm is given when conditions	Type o
<u> </u>	for a peripherary (option) are not all	error	THE STATE	for a peripherary (option) are not all	error
	met.	F	_	met.	F
		Stopped		r .	Stoppe
•		status			slatus
		L			_ L
Action		Clearing	Action		Clearin
		procedure			Q
		Q			<u> </u>
		Brightness			Brightne
		N	-		N
345 CC	ONDITION No. 6 MISSING .	(, ,)	349 C	ONDITION No. 10 MISSING	(, ,
Cause		Type of	Cause	An alarm is given when conditions	Type o
Cause	for a peripherary (option) are not all	епог		for a peripherary (option) are not all	error
	met.	F		met.	F
	Iller.	Stopped			Stoppe
		status			statu
		L			- L
· T		Clearing	Action		Clearin
Action		procedure	7.50.15.11		procedi
		Q	6 1000		Q
		Brightness			Brightne
		N	" "		N
346 CC	ONDITION No. 7 MISSING	N (, ,)	400		(, ,
	An alarm is given when conditions	N (, ,) Type of	400 Cause	- p-s-cms	(, ,
	An alarm is given when conditions	N Type of error			(, ,
		N (, ,) Type of			Type of error
	An alarm is given when conditions for a peripherary (option) are not all	N (, ,) Type of error F Stopped			Type of error
Cause	An alarm is given when conditions for a peripherary (option) are not all	N Type of error			N Type of error
Cause	An alarm is given when conditions for a peripherary (option) are not all	N (, ,) Type of error F Stopped	Cause		Type of error Stoppe statu
Cause	An alarm is given when conditions for a peripherary (option) are not all	N (, ,) Type of error F Stopped status L Clearing			Stoppe statu
Cause	An alarm is given when conditions for a peripherary (option) are not all	N (, ,) Type of error F Stopped status L Clearing procedure	Cause		Type of error
Cause	An alarm is given when conditions for a peripherary (option) are not all	N (, ,) Type of error F Stopped status L Clearing	Cause		Stoppe atatu
Cause	An alarm is given when conditions for a peripherary (option) are not all	N (, ,) Type of error F Stopped status L Clearing procedure	Cause		Stoppe atatu
Cause	An alarm is given when conditions for a peripherary (option) are not all	N (, ,) Type of error F Stopped status L Clearing procedure Q	Cause		Stoppe atatu Clearing proced
Cause	An alarm is given when conditions for a peripherary (option) are not all	N (, ,) Type of error F Stopped status L Clearing procedure Q Brightness	Cause		Stoppe atatu Clearing proced
Action	An alarm is given when conditions for a peripherary (option) are not all	N (, ,) Type of error F Stopped status L Clearing procedure Q Brightness N	Cause		Stoppe atatu Clearing proced
Action 347 C	An alarm is given when conditions for a peripherary (option) are not all met. ONDITION No. 8 MISSING An alarm is given when conditions	N (, ,) Type of error F Stopped status L Clearing procedure Q Brightness N	Action	HIST	Stoppe atatu Clearit proced
Action 347 C	An alarm is given when conditions for a peripherary (option) are not all met. ONDITION No. 8 MISSING An alarm is given when conditions	N (, ,) Type of error F Stopped status L Clearing procedure Q Brightness N	Action		Stoppe atatu Clearing procedi
Action 347 C	An alarm is given when conditions for a peripherary (option) are not all met. ONDITION No. 8 MISSING	N (, ,) Type of error F Stopped status L Clearing procedure Q Brightness N	Action	HIST	Stoppe atatu Clearing procedi
Action 347 C	An alarm is given when conditions for a peripherary (option) are not all met. ONDITION No. 8 MISSING An alarm is given when conditions for a peripherary (option) are not all	N (, ,) Type of error F Stopped status L Clearing procedure Q Brightness N (, ,) Type of error F Stopped	Action		Stoppe atatu Clearit proced
Action 347 C	An alarm is given when conditions for a peripherary (option) are not all met. ONDITION No. 8 MISSING An alarm is given when conditions for a peripherary (option) are not all	N (, ,) Type of error F Stopped status L Clearing procedure Q Brightness N (, ,) Type of error F	Action		Stoppe atatu Clearit proced
Action 347 C	An alarm is given when conditions for a peripherary (option) are not all met. ONDITION No. 8 MISSING An alarm is given when conditions for a peripherary (option) are not all	N (, ,) Type of error F Stopped status L Clearing procedure Q Brightness N (, ,) Type of error F Stopped	Action		Stoppe atatu Clearing procedi
Action 347 C	An alarm is given when conditions for a peripherary (option) are not all met. ONDITION No. 8 MISSING An alarm is given when conditions for a peripherary (option) are not all	N (, ,) Type of error F Stopped status L Clearing procedure Q Brightness N (, ,) Type of error F Stopped	Action		Stoppe atatu Clearing procedi
Action 347 C	An alarm is given when conditions for a peripherary (option) are not all met. ONDITION No. 8 MISSING An alarm is given when conditions for a peripherary (option) are not all	N (, ,) Type of error F Stopped status L Clearing procedure Q Brightness N (, ,) Type of error F Stopped status L	Action		Stoppe atatu Clearing procedi
Action 347 C	An alarm is given when conditions for a peripherary (option) are not all met. ONDITION No. 8 MISSING An alarm is given when conditions for a peripherary (option) are not all	N (, ,) Type of error F Stopped status L Clearing procedure Q Brightness N (, ,) Type of error F Stopped etatus L Clearing	Action		Stoppe atatu Clearing procedi
Action 347 C	An alarm is given when conditions for a peripherary (option) are not all met. ONDITION No. 8 MISSING An alarm is given when conditions for a peripherary (option) are not all	N (, ,) Type of error F Stopped status L Clearing procedure Q Brightness N (, ,) Type of error F Stopped status L Clearing procedure	Action		Stopp statu Cleari proced

Cause	The input format is illegal. (Example 1) An attempt has been	Type of error
	made to input a negative number to an item that rejects negative num- bers or characters handled as such	A
	(-, ., letters of the alphabet, etc.) (Example 2) An attempt has been	Stopped status
	made to input a number consisting of more digits than available.	L
Action	Press the CLEAR key and set cor- rect data.	Clearing procedure
		S
	and the same of the same	Brightness
77	The second of the second of	· N

404 B	MEMORY CAPACITY EXCEED	()
Cause	Additional machining programs can- not be stored into the machining	Type of error
	program storage area of the memory since its capacity has been succeeded, or additional layout data	Ε
	cannot be stored into the layout data storage area of the memory	Stopped status
	since its capacity has been exceeded.	L
Action	Delete an unnecessary program, or save existing programs into an external storage unit and use those programs.	Clearing procedure
		S
		Brightness
		N

:

402 II	LEGAL NUMBER INPUT	(,,)
Cause	The input value is out of the allowable setting range.	Type of error
	and setting tarige.	Α
		Stopped etatus
		L
Action	Press the CLEAR key and set cor-	Clearing procedure
	rect data.	S
		Brightness
		N

(, ,)
Type of error
Stopped elatus
Clearing procedure
Brightness

403	(, ,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Brightness
	until mantil

406 N	EMORY PROTECT	(, ,)
Cause	The PROGRAM LOCK/ENABLE switch on the operator panel is set	Type of error
	to LOCK.	Α
		Stopped status
		L
Action	Reset the PROGRAM LOCK/ENA- BLE switch to ENABLE.	Clearing procedure
	BLE SWILLI LO ENABLE.	S
	erent on the	Brightness
100	The state of the s	N

Cause	The designated number or character string does not exist.	Type of error
	(1) A search operation was carried	Α
	out on the PROGRAM display.	Stopped status
	And the last of th	LI
Action	Review the designated number or character string.	Clearing procedure
		S
		Brightness
		N

408	PROGRAM ERROR	(, ,)
Cause	Data stored within the machining program storage area has been	Type of error
	destroyed.	E
		Stopped status
		L
Action	Delete the corresponding program.	Clearing procedure
		S
		Brightness
		N

409	(,,)
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Brightness

410	IL	LEGAL DELETION	(,,)
Caus		An attempt has been made to delete '%' during EIA/ISO program	Type of error
		editing.	Α
		edinig.	Stopped status
			L
Actio	תכ	The "%" symbol cannot be deleted.	Clearing procedure
			S
			Brightness
			N

411 51	TOP POWER IN PROGRAM EDITING	(, ,)
Cause	Part of the program contents has been destroyed because the power	Type of error
	was turned off during program	E
	editing	Stopped
		L
Action	Check the corresponding program and if that program contains incorrect data, delete the program and create a correct program.	Clearing procedure
		S
		Brightness
		N

412	AUTO DRILL PROCESS IMPOSSIBLE	()
Cause	- 100 DEL-1' 5' 2 (ashin or car)	Type of error
	could not be automatically determined in the calculation.	В
		Stopped status
		L
Action	Recheck the program for missing data.	Clearing procedure
	Set data in DEP-1, DEP-2, and DEP-3.	S
		Brightness
		N

413 PI	ROGRAM OVER	(\cdot , \cdot)
Cause	The maximum allowable number of programs which can be registered	Type of error
has been exceeded. (Up to 32, 128,	Α	
	or 256 programs can be registered, depending on the memory type.)	Stopped status
Action	Delete an unnecessary program, or save existing programs into an external storage unit and use those programs.	Clearing procedure
		S
		Brightness
		N

414 AL	ITO CUT COND. PROCESS IMPOSSI.	(, ,)
Cause		Type of error
		В
		Stopped status
		L
Action	Set correct data on the CUTTING CONDITION display.	Clearing procedure
	Recheck the program.	S
		Brightness
		N

415 M	IS-SET G CODE	(,,)
Cause	An attempt has been made to set a G-code that cannot be designated	Type of error
	for the manual program.	A
		Stopped status
		L
Action .	Recheck the program for missing data.	Clearing procedure
	Value.	S
		Brightness
		N

419 A	UTO TAP PROCESS IMPOSSIBLE	(, ,)
Cause	Automatic setting of tapping process data is impossible because of	Type of error
	Inconsistencies in the nominal dia-	8
	meter data of tapping.	Stopped status
		LI
Action	Recheck the program for tapping process data errors.	Clearing procedure
		S
		Brightness
		N

416 A	UTO THREAD PROCESS IMPOSSIBLE	(, ,)
Cause	The thread data (height, number of cuts, depth of cut) cannot be deter-	Type of error
	mined automatically.	В
		Stopped status
	A 2 44 A 44	L
Action	Recheck the program for missing data.	Clearing procedure
		S
		Brightness
•		N

420	DISIGNATION OVERLAP	(, ,)
Cause	An attempt has been made to designate data that has already	Type of error
	been registered (CMT I/O, TAPE I/O,	Α
	DNC I/O, or PRINT OUT display program number, tool data suffix, or	Stopped
17,110	machining program number).	L
Action	Recheck the designated data.	Clearing procedure
		S
		Brightness
		N

417 P	ROCESS NUMBER EXCEED (>99)	(, ,)
Cause	An attempt has been made to create more than 99 sets of process data for that program.	Type of error
		Α
	VIII VIII VIII VIII VIII VIII VIII VII	Stopped status
		L
Action	Call up multiple programs and chain them.	Clearing procedure
		Ş
		Brightness
	the second pile of the second	N

Cause	The TRS setup number that has been designated for the program already exists.	Type of error
		A
		Stopped status
	the state of the s	L
Action	Recheck the TRS setup number.	Clearing procedure
		S
		Brightness
		N

422	MEMORY PROTECT (I/O BUSY)	(, ,)
or set a machining program	An attempt has been made to edit	Type of error
	data during I/O operation.	A
		Stopped status
	,	L_L
Action	Edit or set a machining program or tool data after I/O operation.	Clearing procedure
	tool data altor no oporation.	S
		Brightness
		N

423 N	O DESIGNATED PROGRAM	(, ,)
Cause	A program not existent within the NC has been designated during one	Type of error
	of the following operations: (1) Work number search	A
	(2) Process copyling or program copyling	Stopped status
	(3) SET UP display selection (4) Program deletion	n L
Action	Check the designated program.	Clearing procedure
		S
		Brightness
		N

424 C	ATA NOT FOUND	(, ,)
Cause	The number of a nonexistent pro- cess has been designated for pro- cess copying, or the number of a	Type of error
		Α
	nonexistent process has been designated for interchange or move-	6topped status
	ment of layout data.	L
Action	Check the designated process.	Clearing procedure
		S
		Brightness
		N

750		(, ,)
Cause	Processing is impossible since the necessary data is unset.	Type of error
	 (1) A load or save command was issued before designation of a work number on the CMT I/O, TAPE I/O, DNC I/O, or PRINT OUT display. (2) Data for intersection-point calculation is missing. For TPR: 1) The "CPTX" or "CPTZ" data for the process is unset. 2) Either the "SPTX", "SPTZ", "FPTX", "FPTX", or 	8
	"ANGLE" data for the sequence is unset.	H
	For concave \(\to\)/convex \(\to\) machining:	Stopped status
	1) The next program line is not for the CTR sequence. 2) Either the "SPT-X", "SPT-Z", "FPT-X", "FPT-Z", or "RADIUS" data for the sequence is unset. (3) The sequence number (N) has not yet been set when the "EIA/ISO SEARCH" menu key was pressed.	L
Action	Check data.	Clearing
		8
		Brightness
		N

426	SEQUENCE NUMBER EXCEED	(, ,)
Cause	Lat A - attaat here been made to	Type of error
Ŧ,	for the process which can accept only one sequence line. (2) An attempt has been made to	A
	create more sequences than available for the macrosequence.	Stopped status
	(3) An attempt has been made to create more than 250 sequences for only one process.	L
Action		Clearing procedure
		S
		Brightness
		N

Cause	An attempt has been made to set the POSITION counter during the automatic operation mode.	Type of error
		Α
		Stopped status
		L
Action	Change the operation mode to a manual mode, and set the POSI-TION counter.	Clearing procedure
		S
		Brightness
		N

431 G	EAR No. ERROR	(, ,)
Cause	The designated gear number is illegal.	Type of error
	alogu.	A
		Stopped status
		L.
Action	Override the gear number with a correct one.	Clearing
	COTION OIL	S
		Brightness
		N

428 N	EMORY PROTECT (AUTO OPERATION)	(, ,)
Cause	(1) An attempt has been made to set unavailable data during automatic operation.	Type of error
6		Α
	(2) An attempt has been made to set data (program edition, work	Stopped status
	No. research) during M02 stop	L
Action	Reset that switch, and then set cor- rect data.	Clearing procedure
		S
		Brightness
		N

432 TO	OOL NOT FOUND	()
Cause	(1) No tool numbers were set in the program during layout.	Type of error
(2) The tool number that was desig-	В	
	nated during the test mode is not yet registered in the tool	Stopped status
	data.	L
Action	Override the tool number with a correct one.	Clearing procedure
	vect one.	S
		Brightness
		N
	designated to be loaded from the	
Cause	external unit already exists in the	Type of error
		В
	NC.	Stopped status
1		L
Action	Check the machining program number and then renumber (or delete) a	Clearing procedure
	program stored within the NC prior	S
	to setting data.	Brightnes
		N
		N
434 7	DOL No. DATA NOT FOUND	N (, ,)

429 N	IEMORY PROTECT (SAMPLING)	(, ,)
Cause	An attempt was made to set the date at the MEMORY SCOPE dis-	Type of error
	play during sampling process.	Α
		Stopped etatus
		L
Action	Press the "START" menu key once again to interrupt the sampling operation, and then make sure that the highlighted status of the "START" menu display has been cleared. Data can now be set.	Clearing procedure
		S
		Brightness
		N

433	SAME PROGRAM EXISTS	(, , ,)
Cause	Cause The machining program that was designated to be loaded from the external unit already exists in the NC.	Type of error
		В
-		Stopped status
1		L
	Check the machining program number and then renumber (or delete) a	Clearing procedure
0	program stored within the NC prior	S
	to setting data.	Brightness
		N

430	(_,_,)
Cause	Type of error
	Stopped etatus
Action	Clearing procedure
	Brightness

434 T	OOL No. DATA NOT FOUND	(, ,)
Cause	An attempt was made to set the tool ID code without setting a tool	Type of error
number.	Α	
	Stopped	
	· ·	L
Action	Set a tool number before designating a tool ID code.	Clearing procedure
		S
		Brightness
		N

435 P	ROGRAM CHECK NOT ALLOWED	(, ,)
Cause	Tool path checking is impossible with the background processing	Type of error
	mode.	Α
		Stopped status
		L
Action	Check the tool path after completion of automatic operation or after pressing the RESET key to abort automatic operation.	Clearing procedure
		S
		Brightnes
		N

439 N	MAZATROL PROGRAM DESIGNATED	()
Cause	A MAZATROL program was designated for use of the tape puncher,	Type of error
	of a MAZATROL program was	Α
	designated during use of the copying of the EIA/ISO program	Stopped
	editing mode.	L
Action	When using the tape puncher, you cannot designate any MAZATROL programs during EIA/ISO program editing.	Clearing procedure
		S
		Brightness
		N

Cause	The program process layout is not yet complete.	Type of error
	yet complete.	Α
		Stopped status
		L
Action	Do the layout once again.	Clearing procedure
		S
		Brightness
		N

440 E	IA/ISO PROGRAM DESIGNATED	(11)
Cause	An EIA/ISO program was designa- ted during use of the copying func-	Type of error
	tion of the MAZATROL program editing mode.	A
		Stopped status
		LII
Action	Check the program number	Clearing procedure
		S
		Brightness
		N

Cause	Layout under those conditions is	Type of error
	Impossible. (1) The data to be set for the program is missing.	В
		Stopped status
		L
Action	Recheck the program for missing data.	Clearing procedure
		S
		Brightness
		N

441 FI	NAL POINT DATA NOT FOUND	()
Cause	The end-point data of the preceding line was not yet set when an attempt was made to set the start point data of the BAR or CPY process on the CONTINUE menu.	Type of error
		В
P		Stopped status
		L
Action	Recheck the program for missing data.	Clearing
		S
		Brightness
		N

438 M	An attempt was made to select a	Type of error
macro program in the work number search operation.	Α	
	search operation.	Stopped status
		L
Action	Work number search operations cannot be carried out with macro	Clearing procedure
programs.		S
	highmin	Brightnes
		N

442	DATA RENEWAL NOT ALLOWED	(\cdot,\cdot)
Caus		Type of error
	De abased aliasi alose consilione.	Α
		Stopped status
		L
Actio	Action This message implies that the NC is busy executing internal processing operations. Press the CLEAR key, and update the program data.	Clearing procedure
		S
		Brightness

443 N	ELP IS NOT AVAILABLE	1 1 1
Cause	DETAILED INFORM display was designated during a process other than machining processes.	Type of error
		Α
		Stopped status
		L
Action	The DETAILED INFORM display cannot be selected for non-machining processes. Move the cursor to a machining-process item and call up the DETAILED INFORM display.	Clearing procedure
		S
		Brightness
		N

Mas. In

Cause	Automatic calculation of intersection	Type of
	point data is impossible.	error
	For TPR: (1) More than one "?" exists in a single line. (2) The machining data for the process is illegal, that is, neither OUT, IN, FCE, nor BAK. For concave □ /convex □	В
	machining: (1) The symbol "?" exists in both "SPT-X" data and "SPT-Z" data.	Stopped status
	(2) The symbol "?" exists in both "FPT-X" data and "FPT-Z" data. (3) The machining data for the process is illegal, that is, neither OUT, IN, FCE, nor BAK. (When two intersection points exist but their directions are not designated.)	Ľ
Action	Recheck the program. Refer to the section "Automatic extrapolation" of	Clearing procedure
	the Programing Manual.	S
		Brightness
		N

	NO INTER	SECTION	(, ,)
Cause	nec	Intersections have been defi- i after calculation.	Type of error
	tion	e coordinate of the intersec- with the X-axis has over- oped the range from 0 to	В
	(3) The	9.999 after calculation. coordinate of the intersec-	Stopped Status
	tion with the Z-axis has over- stepped the range from - 9999.999 to 9999.999 after cal- culation.		L
Action	Reched See Pr	ck the program. ogramming manual "Automa-	Clearing procedure
	Al-		S
	nc extu	apolaltion" for details.	
	uc exin	apolation" for details.	7.1-20
	uc extr	apolaition" for details.	Brightnes N
446 E			Brightnes N
446 E	EPROM E	ERROR (A, ,) or occurred during EEPROM	Brightnes
	EPROM E	RROR (A, ,)	N (, ,) Type of
	EPROM E	ERROR (A, ,) or occurred during EEPROM write operations, or the	N (, ,) Type of error
	EPROM E	ERROR (A, ,) or occurred during EEPROM write operations, or the	Brightnes N (, ,) Type of error E Stopped
	EPROM E	ERROR (A, ,) or occurred during EEPROM write operations, or the OM itself does not exist. Description	Brightnes N (, ,) Type of error E Stopped status L Clearing
Cause	An error read or EEPRO	PROR (A, ,) or occurred during EEPROM write operations, or the DM itself does not exist. Description EEPROM write not yet done.	Brightnes N (, ,) Type of error E Stopped status L Clearing
Cause	An error read or EEPRO	ERROR (A, ,) or occurred during EEPROM write operations, or the OM itself does not exist. Description	Brightnes N (, ,) Type of error E Stopped status L
Cause	An error read or EEPRO	PROR (A, ,) or occurred during EEPROM write operations, or the omitself does not exist. Description EEPROM write not yet done. EEPROM not yet initialized.	Brightnes N (, ,) Type of error E Stopped status L Clearing procedure

HDHI	Stopped
Mark Control	
Action	Clearing procedure
	Brightness

Ceuse Ceuse	Type of error
	Stopped status
Action	Clearing procedure
	Brightness

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452 C	URRENT TOOL No. NOT COINCIDENT	(, ,)
Cause	The tool for which tool tip position is to be stored (TPS) differs from	Type of error
eq.	the tool which is currently selected.	A
		Stopped status
20		L
Action	Move the cursor to the selected tool data item before carrying out the tool tip position store operation.	Clearing procedure
		S
		Brightness
		N

449 R	ESTART SEARCH FINISHED	(, ,)
Cause	An attempt has been made to edit the EIA/ISO program after a restart search for the beginning-of-program	Type of error
		Α
	was completed.	Stopped status
	of the same and a same to the	L
Action	Program editing is impossible since the search operation intended for restart has already been completed. To carry out program edit operations, you must press the RESET key to cancel the search mode.	Clearing
		S
		Brightnes
		N

453 E	XCHANGE OR MOVE IMPOSSIBLE	, , , ,
Cause	In the layout, an attempt was made to change or move the process out- side the processes delimited by	Type of error
		Α
	SEP, TRS processes.	Stopped status
		L
Action	Carry out that operation within the range separated by the SEP and TRS processes. For details, refer to the section "PROCESS LAYOUT display" of the Operating Manual.	Clearing procedure
		S
		Brightnes
		N

450 T	PC DATA NOT FOUND	(,,)
Cause	While a process line not containing TPC data remained on the display,	Type of error
	the "TPC" menu key was pressed in an attempt to indicate the TPC display during the PROGRAM dis-	Α
		Stopped status
	paly list mode.	L
Action	Carry out the operation on editing mode.	Clearing procedure
	111000.	S
		Brightness
= ;		N

454 C	URSOR POSITION INADEQUATE	()
Cause	Processing is impossible because of the incorrect position of the cursor.	Type of error
	(1) A copying, deleting, inserting, or some other editing operation	A
Linux Linux E	was carried out on non-process data or common-process data.	Stopped status
	(2) The TPC menu key was pressed with a non-process line being displayed.	L
Action	Check the cursor position.	Clearing procedure
		S
		Brightness
		N

451 TO	OL EYE NOT EXTENDED	(, ,)
Cause	The TOOL EYE arm is not at the extend state when the correspon-	Type of error
	ding menu key is pressed to carry	Α
	out the measurement for tool setting.	Stopped
		L
Action	Place the TOOL EYE arm out of position. (extend state)	Clearing procedure
	position: (extend billio)	S
		Brightness
		N

Cause	The machining program being edited was designated during program	Type of error
è	copying.	A Stopped status
Action	Program copying cannot be done on the same program. Check the corresponding program number.	Clearing procedure
		S
		Brightness
		N

456 8	AME PROCESS DESIGNATED	(, ,)
Cause	An attempt was made to copy the cursor located process in the pro-	Type of error
	cess copy operation.	Α
		Stopped status
		L
Action	Process copying cannot be done on the same process.	Clearing procedure
		S
	OUR STREET, I WANTE AND THAT	Brightness
- 11		N

457 N	OT FOUND ADDRESS OF DATA	(, ,)
Cause	An attempt has been made to set data without designating an address	Type of error
	for the manual program sequence.	Α
		Stopped status
		L
Action	Designate an address before setting manual program sequence data.	Clearing procedure
		Brightness
		N

458 ILLEGAL TPC DATA	(, ,)
Cause The TPC data for the process is not correct;	Type of error
(1) After making the TPC data, the	В
process machining mode is changed.	Stopped status
	L
Action Delete the TPC data and set correct data once again whenever required.	Clearing procedure
Date once again whenever required.	S
·	Brightness
	N

Cause	The TPC data editing is not possible for the designated process.	Type of error
	olo loi dio doolgi alba pioodoo.	A
	-	Stopped status
		L
Action	Check the program.	Clearing procedure
		S
		Brightness
		N

Cause	An attempt was made to print out the data from the PRINT OUT dis-	Type of error
	play while the hard copy is being made. An attempt was made from	A
I.	the graphic display to perform dis- play, scaling, change, material,	Stopped status
	shape and tool path drawing while the hard copy is being made.	L
Action	After finishing the hard copy, carry out the operation.	Clearing
H		S
		Brightness
	10.10.10.10.10.10	N

461 S	UFFIX DESIGNATION ERROR	(, ,)
Cause	An attempt was made to change the tool ID code for the tool for which the ID code is not assigned. An attempt was made to change the H/V ID code for the machine which requires H/V attribute. An attempt was made to input the ID code which cannot be selected for the machine which requires H/V attribute.	Type of error
		A
		Stopped status
		L
Action	Suffixes that can be registered on the H-type machine: A, C, E, and G. Suffixes that can be registered on the V-type machine: B, D, and F	Clearing procedure
		S
		Brightness
		N

462 L	LLEGAL PROCESS DESIGNATED	(}
Cause	In the layout, the special process (SEP, TRS process) is designated in	Type of error
	the program for a stand alone	В
	machine.	Stopped status
		L
Action	Using the program editing mode, delete the special process (SEP and TRS) and make a process layout once again.	Clearing procedure
		S
		Brightness
	-	N

463	MACRO PROGRAM NOT FOUND	(\cdot , \cdot , \cdot)
Cause	With the MAZATROL program, although the macro process was	Type of error
	designated the corresponding	В
	macro process is not existed in the NC. (Layout)	Stopped status
		LI
Action		Clearing procedure
		S
		Brightness
		N

464 P	ARAMETER ERROR	(,,)
Cause	The tool data (machine parameters	Type of error
	B1 through B11 and C1 through C11) is illegal.	В
		Stopped status
		L
Action	Recheck the parameters (B1 ~ B11 and C1 ~ C11) to see that each of them is appropriate for your machine model.	Clearing procedure
		S
		Brightness
		N

466	MACRO COMPILE ERROR	(,,)
Cause	Macro programming error was found when the macro program was	Type of error
	being registered.	В
	Doning Togistics	Stopped status
		L
Action		Clearing procedure
		Ş
		Brightness
		N.

467	MACRO ENTRY ERROR	(\dots)
Cause	Macro programs could not be regis- tered because:	Type of
	(1) The number of macro programs in the memory exceeded 32.	A
	The max number of macro programs is 32.	Stopped etatus
	(2) Macro number already registered is used.	L
Action	(1) Delete an unnecessary macro number.	Clearing procedure
	(2) Register the macroprogram	S
	under any other macro number, or delete a registered macro	Brightness
	number.	N

468 O	UT OF VFC RANGE	$(\cdot \cdot \cdot)$
Cause	The surface speed or the feedrate exceeded its max, because the VFC	Type of error
was out of range.	В	
		Stopped status
		L
	Recheck the peripheral speed or feedrale set in the program with which you executed automatic operation.	Clearing
		S
		Brightnes
		N

469	(, ,)
Cause	Туре об еггог
lines.	Stopped status
Action	Clearing
	Brightness

VOTES OF THE LEFT

500 N	EMORY PROTECT (AUTO OPERATION)	(, ,)
Cause	An attempt has been made to operate the I/O during automatic operation when a background I/O option is not provided.	Type of error
		Α
		Stopped status
	A THE RESIDENCE OF THE PERSON AND ADDRESS OF	L
Action	Action Operate the I/O only after automatic operation has been completed.	Clearing procedure
		S
		Brightness
		N

504 L	OAD IMPOSSIBLE (AUTO OPERATION)	()
Cause An attempt has been made to load data other than machining program data during automatic operation.		Type of error
	Α	
		Stopped etatus
		L
Action Load data after completion of matic operation.	Load data after completion of auto-	Clearing
	made operation.	S
		Brightness
	.4(1)	N

501 IL	LEGAL FORMAT	(, ,)
Cause	A cassette tape or floppy disk that contains data other than T32 or	Type of error
4	T2/T3 data has been set.	Α
		Stopped status
		L
	Set a cassette tape or floppy disk that contains T32 or T2/T3 data.	Clearing procedure
		S
		Brightness
		N

505 L	OAD IMPOSSIBLE (MISMATCH)	(-1)
Cause	An attempt has been made to load cassette tape or floppy disk data dif-	Type of error
	ferent from the parameter data	Α
	within the NC. (The parameters do not match in terms of data size,	Slopped
	head type, etc.)	
Action	Check if the data saved within the cassette tape or floppy disk is for the machine being operated.	Clearing procedure
		S
		Brightness
0.		N

502 F	ARAMETER ERROR	1 1 1
Cause	When tool data was loaded, an error occurred because the data	Type of error
	was different from parameterized	Α
	tool Information. (The loaded tool data does not match to the machine	Stopped status
	specifications.)	L
Action	Check machine parameters B1 through B11 and C1 through C11. Check if the loaded data is for the machine being operated.	Clearing procedure
		S
		Brightness
	facility of the state of the st	N

506 8	AME PROGRAM APPOINTED (W	No., ',)
Cause	An attempt has been made to load a machining program that has the	Type of error
some work number as that of a	same work number as that of a	Α
	machining program prestored within the NC.	Stopped status
Action	Review work numbers for possible overlapping.	Clearing procedure
	Otto appling.	\$
THE SHARE THE SAME AND AND ASSESSED.	OR THE STATISTICS AND SECOND	Brightness
		N

503 LC	OAD IMPOSSIBLE (TOO MANY) (W	No., ,)
Cause An attempt has been made to load machining program data that exceeds the maximum registration	Type of error	
	Α .	
•	of programs within the NC.	Stopped status
		L
Action First delete unnecessary machining programs directly or after saving them into an external storage unit, and then load the intended program data.	First delete unnecessary machining	Clearing procedure
	S	
	Brightness	
	OBIA.	N

507 N	O DESIGNATED PROGRAM (W	No., ,)_
Cause	The machining program you have made an attempt to save into the	Type of error
	CMT unit does not exist in the NC.	A
		Stopped clatus
		L
Action	Check If the machining program that contains the designated work	Clearing procedure
	number exists in the NC.	s
		Brightness
		N

608 N	EMORY CAPACITY EXCEED (W	No., ,)
Cause	An attempt has been made to load machining program data that	Type of error
	exceeds the maximum available	Α
	area for program registration within the NC.	Stopped status
		
Action	First delete unnecessary machining programs directly or after saving them into an external storage unit, and then load the intended program data.	Clearing procedure
		S
		Brightness
		N

Cause The T2/T3 process layout cannot be converted in construction.	Type of error	
	Converted in constructions	Α
		Stopped status
		L
Action	Since the program itself will be loa- ded, review the process layout.	Clearing procedure
		S
	Brightness	
	N	

510	CONTENTS ARE NOT COINCIDENT (WN	0., ,)
Caus	Data within the cassette tape or	Type of error
	floppy disk differs from the NC data in terms of data size, management	A
	Information, etc. (NOTE) If the work number is 10000 or more, data other than machining	Stopped status
	program data will be displayed.	III L
Action	(1) Check the data size, data name, etc. on the PROGRAM FILE dis-	Clearing procedure
	play, and then correct the data and make comparison.	S
	the second of th	Brightness
	the machine being operated.	N

Ceuse	Data within the cassette tape or floppy disk differs partly from the	Type of error
	NC data. (NOTE) For EIA/ISO programs, the number displayed in the PNo. position corresponds to the number displayed at the lower right section of	A
	the PROGRAM display page. If both the PNo. and the SNo. are 0 (zero), this also indicates that the	Stopped atatus
	cassette tape or floppy disk data mismatches in terms of operational setup or layout. If the work number is 10000 or more, data other than machining program data will be displayed.	L
Action	(1) Correct data disparities in the machining program, and then	Clearing procedure
	make data comparison. (2) If the data is for ones except a machining program, check data disparities on each display. (NOTE) If data that has been saved prior to automatic operation is compared with the NC data after completion of automatic operation, this alarm may result from possible automatic data updating associated	s
		Brightness
	with automatic operation.	N

512	DESIGNATED FILE NOT FOUND (WI	lo., ,)
Cause The machining program or data that has been designated as the subject of loading or comparison does not exist in the cassette tape or floppy disk. (NOTE) If the work number is 10000 or more, data other than machining program data will be displayed.	The machining program or data that	Type of error
	of loading or comparison does not	A
	Stopped status	
	or more, data other than machining	L
Action	Using a DIRECTORY command, check what type of data is stored on the cassette tape or floppy disk.	Clearing procedure
		S
		Brightness
	THE COLUMN THE PARTY AND THE P	N

The second second

513	PROGRAM SOFTWARE NOT COINCIDENT	(,,)
Cause	An attempt has been made to load a machining program different from	Type of error
	NC programs in data structure.	Α
		Stopped status
		L
Action	Check if the cassette tape or floppy disk data is for the T32 or for the T2/T3.	Clearing procedure
		S
		Brightness
	The same of the sa	N

514 E	ESIGNATED DATA NOT COINCIDENT	(, ,)
Cause	An attempt has been made to load non-machining program data different from NC program data in structure.	Type of error
		Α
		Stopped status
		L
Action	Check if the cassette tape or floppy disk data is for the T32 or for the machine being operated.	Clearing procedure
		S
		Brightness
		N

515 C	MT MIS-CONNECTED	(, ,)
Саиве	A cabling error, a power-off sequence error, or a baud rate set-	Type of error
	ting error occurred during NC con- nection to the CMT or microdisk	G
	unit. During NC connection to the microdlsk unit, this alarm message	Stopped status
	may also be displayed if a floppy disk is not correctly set.	L
Action	(1) Check if all cables are correctly connected. (2) Check if the power is on. (3) Check if the baud rate is correctly set. (Parameters within the NC: DV1 11)	Clearing procedure
		S
	(4) For microdisks, check if a floppy	Brightnes
	disk is correctly set.	Ν.

516 8	YSTEM ERROR	(, ,)
Cause	An error occurred in the system.	Type of error
		E
		Stopped status
		L
re ci au W vi th yc	Please contact your MAZAK service representative if the error cannot be	Clearing procedure
	cleared even by turning the NC off and then turning it back on. When contacting your MAZAK ser- vice representative, please also let them know what kind of operation you were carrying out as the error	s
	was occurring, and what data was	Brightness
n i	displayed in parentheses on the display.	N

517 P	ROGRAM OPERATION NOT ALLOWED (VNo., ,)
Cause	An attempt was made to save the program being edited or the machi-	Type of error
	ning program being loaded from	Α
	other I/O units.	Stopped status
		L
Action	Save the program after editing or after loading from other I/O units.	Clearing procedure
		S
		Brightness
		N

518 D	ATA OPERATION NOT ALLOWED	(, ,)
Cause	(1) An attempt was made to load non-machining program data during automatic operation. (2) An attempt was made to save	Type of error
		Α
	the data being loaded using other I/O units. (3) An attempt was made to save	Stopped
the data being saved using other I/O units.		Ĺ
Action	Load data after completion of automatic operation or after loading or saving using other I/O units.	Clearing procedure
		S
		Brightness
		N

519 C	ESIGNATED DATA IS NOT RIGHT	(, ,)
Cause	A program other than system macroprograms was designated for	Type of error
	system macroprogram saving.	A
		Stopped status
		L
Action	Designate a system macroprogram and then resave program data.	Clearing procedure
		S
		Brightness
		N

520 N	EMORY CAPACITY EXCEED (Y	/No., ,)
Cause	An end-of-tape state occurred in the middle of data saving onto the cas-	Type of error
	sette tape or floppy disk.	G
Sette tape of hoppy dista	Stopped status	
Action	Divide the data so that only the desired part of the data can be saved onto the cassette tape or floppy disk, and then carry out the saving operation once again.	Clearing procedure
		S
		Brightness
		N

521 CI	MT MIS-EQUIPPED	(, ,)
	A cassette tape is not set.	Type of error
		Α
		Stopped status
		L
Action	Set a cassette tape correctly.	Clearing procedure
		S
		Brightness
		N

522 N	O OPERABLE DATA IN CMT	(, ,)
Cause	The T2/T3 use cassette tape or floppy disk that has been set does	Type of error
	not contain machining programs.	Α
	(Only machining programs can be loaded from the T2/T3 use cassette	Stopped status
	tape or floppy disk)	L
Action	The T2/T3 use cassette tape or floppy disk that has been set does not contain machining programs. Check this out on the MAZATROL T2/T3 program.	Clearing procedure
		S
		Brightness
		N

523 C	MT VO ERROR	()
Cause	A hardware error has occurred in the CMT or microdisk unit. This	Type of error
	atarm also occurs if a read opera- tion is carried out on an	G
	immediately-after-formatted floppy disk that contains no data to be	Stopped status
	saved.	L
Action	After checking the baud rate or other RS-232C communication con-	Clearing procedure
ditions preset disk and then tape or floppy	ditions preset on the CMT or micro- disk and then replacing the cassette	S
	tape or floppy disk, carry out the VO operation once again.	Brightness
		N

524 C	MT WRITE PROTECT	(,,)
Cause	An attempt has been made to save data onto a write-protected cassette	Type of error
	tape or floppy disk.	Α
		Stopped
-		L
Action T	The cassette tape or floppy disk is write-protected. Release the write-	Clearing procedure
	protected state by resetting the PROGRAM LOCK/ENABLE switch	S
	to LOCK (write-protected), or for	Brightness
	cassette tapes, by tapping the holed section of the tape surface.	N

525 S	TOP POWER IN CMT OPERATION	(, ,)
	The NC power was turned off during the operation of the CMT or microdisk unit.	Type of error
		Α
		Stopped etatus
	The second of the second of the second	L
	Check for data errors in the machi- ning program being used, and if	Clearing procedure
	errors exist, carry out the CMT or microdisk operations once again from the beginning. If the NC has been turned off during loading of	s
	the machining program, carry out the loading operation once again	Brightness
	only after deleting the machining program data.	N

526 C	MT MALFUNCTION	(\cdot,\cdot)
Cause	Data reading failed because of cas- sette tape or floppy disk data errors.	Type of error
	This alarm message will also be	G
	displayed if CMT data whose saving was interrupted is loaded. (This alarm message may also imply a	Stopped status
	check sum error.)	L
Action	Use a different cassette tape or floppy disk, or use the current cassette tape or floppy disk after saving the tape or disk data.	Clearing procedure
		S
		Brightness
		N

527	NO MACRO OPTION	(-, -)
Cause	An attempt has been made to carry out a load or compare command on	Type of error
	a macroprogram when a macro	Α
Ť.	option was not provided.	Stopped etatus
	The second second second	L
	Macroprograms cannot be processed because of the absence of a	Clearing procedure
		S
		Brightness
		N

528 N	O EIA/ISO OPTION	(, ,)
Cause	An attempt has been made to carry out a load or compare command on	Type of error
2011	an EIA/ISO program when an	Α
	EIA/ISO option was not provided.	Stopped status
		L
Action EIA/ISO programs cannot be processed because of the absence of an EIA/ISO option.	Clearing procedure S	
		Brightness
		N

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

530 N	O TAPE READER PUNCHER OPTION	()
Cause	An attempt has been made to operate the tape I/O unit when a tape	Type of error
	reader/puncher option was not	A
	provided.	Stopped
		L
Action	Tape I/O operations cannot be car- ried out because of the absence of	Clearing procedure
	a tape reader/puncher option.	S
		Brightness
		N

531 IL	LEGAL FORMAT	(-, -)
Cause	An attempt has been made to use a paper tape having a different format	Type of error
	to that of paper tapes which can be	Α
	used for the T32.	Stopped status
	an a	L-L
Action	Repunch the data into the format usable for the T32.	Clearing procedure
		S
		Brightness
		N

(-,-,-)
Type of error
Stopped status
Clearing procedure
Brightness

533 L	OAD IMPOSSIBLE (TOO MANY)	WNo., ,)
Cause		
	exceeds the maximum registration of programs within the NC.	Α
i		Stopped etatus
		L
Action First delete unnecessary machining programs directly or after saving them into an external storage unit, and then load the intended program data.		Clearing procedure
		S
	Brightness	
•		N

634	
Cause	Type of error
	Stopped status
Action	Clearing procedure
	Brightness

537	NO DESIGNATED PROGRAM	WNo., ,)
Cause	The machining program you have made an attempt to punch into the	Type of error
	paper tape or floppy disk does not	Α
	exist in the NC.	Stopped
Action	Check if the machining program that contains the designated work number exists in the NC.	Clearing procedure
		6
		Brightness
		N

535 S	TOP POWER IN TAPE READ/PUNCH	(, ,)
Causa	The NC power was turned off during the operation of the tape	Type of error
	puncher/reader or microdisk unit.	Α
		Stopped status
		L
Action	Check for data errors in the machining program being used, and if errors exist, carry out the CMT or microdisk operations once again from the beginning. If the NC has been turned off during punching, carry out the punching operation	Clearing procedure
		s
		Brightness
	once again.	N

538 N	MEMORY CAPACITY EXCEED (M	/No., ,)
Cause	An attempt has been made to load machining program data that exceeds the maximum available area for program registration within the NC.	Type of error
		A
		Stopped status
		L
Action	First delete unnecessary machining programs directly or after saving them into an external storage unit, and then load the intended program data.	Clearing procedure
		S
		Brightness
		N·

536 S	AME PROGRAM APPOINTED (Y	/No., ,)
Cause	An attempt has been made to load machining program that has the	Type of error
	same work number as that of a	Α
	machining program prestored within the NC.	Stopped status
		L
Action	Review work numbers for possible overlapping.	Clearing procedure
		S
		Brightness
		N

539	(, ,)
Cause	Type of error
	Stopped etatus
Action	Clearing procedure
	Brightness

640 C	CONTENTS ARE NOT COINCIDENT	MNo., ,)
Cause	This alarm indicates that the data within the cassette tape or floppy	Type of error
	disk differs from the NC data in terms of data size, management information, etc. The alarm also indicates that end-of-program M-	A
	codes (M02, M30, M99, M198, M199) do not exist.	Stopped status
	This alarm will occur if a machining program having data preceded by an end-of-program M-code is compared after it has been punched.	L
Action	Designate an end-of-program M- code and correct the machining pro-	Clearing procedure
2011	gram so that data cannot be set in a position that succeeds that of the designated end-of-program M-code. If data is to be set in a position that succeeds that of the designated	S
	end-of-program M-code, disable use of end-of-program M-codes using a	Brightness
	special parameter (I58).	N

541 D	ATA ARE NOT COINCIDENT (WNO	.,NOTE,
Cause	Data within the paper tape or floppy disk differs partly from the NC data. (NOTE) The number displayed after the work number is a line number. This line number is crosskeyed to the number displayed at the lower right section of the PROGRAM display page.	Type of error
1901 1911		A
		Stopped status
		L
Action	Correct data disparities in the machining program, and make data comparison.	Clearing procedure
		S
		Brightness
		i N

542 N	O DESIGNATED PROGRAM	WNo., ,)
Cause	The machining program that has been designated as the program to	Type of error
	be loaded (or compared with NC	Α
	program data) does not exist in the paper tape or floppy disk.	Stopped status
		L
Action	Using ALL LOAD and other com- mands, check what types of machi- ning programs have been punched onto the paper tape or floppy disk.	Clearing procedure S
		Brightnes
		N

543 D	ESIGNATED DATA IS NOT RIGHT	(, ,)
Cause	The designated search data is not correct (this implies that an EOB is	Type of error
	included in the search data), or the	Α
	rewind mode has been selected when a rewind option was not	Slopped status
	provided.	L
Action	(1) Check if the search data is	Clearing procedure
	(2) Check If the setting of rewinding parameter I24 is correct.	S
	The rewind mode is valid only	Brightness
	when the tape reader has a rewind option.	N

644 T	APE READER MIS-CONNECTED	()
Cause A cabling error or a power-off sequence error occurred during connection between the tape reader or microdisk unit and the NC.		Type of error
	G	
	For microdisks, this alarm also Indi- cates that the floppy disk is not cor-	Stopped status
rectly set.		L
Action	(1) Check for incorrect cable connections. (2) Check if the power is on. (3) For microdisks, check if a floppy disk is correctly set.	Clearing procedure
		S
mu=		Brightness
		N

545 T	APE PUNCHER MIS-CONNECTED	()
Cause	A cabling error or a power-off sequence error occurred during connection between the tape puncher or microdisk unit and the NC. For microdisks, this alarm also indicates that the floppy disk is not correctly set.	Type of error
		G
		Stopped status
		L
Action	(1) Check for Incorrect cable connections. (2) Check if the power is on. (3) For microdisks, check if a floppy disk is correctly set.	Clearing procedure
		S
		Brightness
	•	I N

546 8	YSTEM ERROR	(\cdot , \cdot)
Cause	An error has occurred in the system.	Type of error
	eyoloni.	E
		Stopped status
	the the length process of the second	L
Action	If the error cannot be cleared even after the NC power has been turned off and then turned back on, please contact your MAZAK service representative giving information about what type of operation you were carrying out when the error occurred, and the data which is displayed in parentheses.	Clearing procedure
		s
		Brightness
		N

547	PROGRAM OPERATION NOT ALLOWED (V	
Cause	An attempt has been made to save the program being edited or being	Type of error
	loaded from an external I/O unit.	A
		Stopped status
		L
Action Save the program only after its editing or loading from an external I/O unit has been completed.	Save the program only after its edi-	Clearing procedure
	unit has been completed.	S
	Brightness	
		N

548	NO EIA/ISO OPTION	(, ,)
Cause	An attempt has been made to load an EIA/ISO program in the absence	Type of error
	of an EIA/ISO option.	Α
	of an Election opinion.	Stopped status
		LU
Action	EIA/ISO program data cannot be processed since the system does not have an EIA/ISO option.	Clearing procedure
		S
		Brightness
		N

549	DATA SIZE OVER (WN	o.,NOTE,
Cause	Blocks that contain more than 256 characters of data per block are	Type of error
	present in the machining program. (Or either an EOB or an EOR is not present in 256 characters.)	
	(NOTE) The number displayed after a work number is a line number that is crosskeyed to the number	Stopped status
	displayed at the lower right section of the PROGRAM display page.	L
Action	Correct the machining program first. (Include an EOB in 256 characters.)	t. Clearing procedure
		S
		Brightness
		N

550 N	OT FOUND WNo. ON PAPER TAPE	()
Cause	Data loading or comparison cannot be performed since WNo. 0 is not	Type of error
	present in the paper tape or floppy	Α
	disk.	Stopped
		L
Action	Set WNo. 0 on the TAPE I/O	Clearing procedure
	display.	S
		Brightness
	Name of the last	N

551 5	ET THE NEW PAPER TAPE	(,,)
Cause	A paper tape is not yet set in the tape reader/puncher.	Type of error
	The baud rate setting and other	Α
	conditions for RS-232C communica- tion between the tape reader/pun- cher or microdisk unit and the NC	Stopped status
	ere not satisfied.	L
Action	(1) Check if a paper tape is set in the tape reader/puncher.	Clearing procedure
	(2) Check for mismatches in RS-232C communication conditions between the I/O unit and the NC.	s
	(Parameters within the NC: DV2 11 through 18, and 19	Brightness
	through 124)	N

552	_ (, ,)
Cause	Type of error
	Stopped status
Action	Clearing
	Brightness

555	MAZATROL PROGRAM DESIGNATED	(,,)
Caus	An attempt has been made to punch MAZATROL program data	Type of error
	onto the paper tape.	
		Stopped status
Actio	Only EIA/ISO program data can be punched onto paper tapes. Desi-	Clearing procedure
	gnate an ElA/ISO program.	S
		Brightness
		N

553 TAPE READER ERROR (, ,)		
Cause	A hardware error has occurred in the tape reader or microdisk unit.	Type of error
7,	the tape reader or find outsk diff.	G
, . 2		Stopped status
100		
Action	Before operating the tape reader or microdisk unit, check for mismatches in RS-232C communication conditions between the tape reader or microdisk unit and the NC and replace the current paper tape or	Clearing procedure
		S
		Brightnes
	floppy disk with a new one.	N

556	PARITY H E	RROR	(-, -)
Caus	Data loa	ding is not possible	Type of
0	because	of a parity H error in the	епог
0	paper ta	pe data or floppy disk data.	
0		The number of sprocket	A .
0		holes present in the tape	
0		Sprocket must be even (for ISO programs) or odd (for EIA	Stopped
•	Sprocket		status
0			
0		programs).	L
<u> </u>			
Action	Use some other paper tape or floppy disk, or use the current	Clearing procedure	
		ape or floppy disk only after	S
			Brightness
			N

554 T	APE PUNCHER ERROR	(17,7)
Cause	A hardware error has occurred in the tape puncher or microdisk unit.	Type of error
		G
4		6topped status
4		L
Action	Before operating the tape puncher or microdisk unit, check for mismatches in RS-232C communication conditions between the tape puncher or microdisk unit and the NC and replace the current paper tape or floppy disk with a new one.	Clearing procedure
		S
		Brightness
		N

557	PARITY V ERROR	(, ,)
Cause	Data loading is not possible because of a parity V error in the	Type of error
	paper tape data or floppy disk dat	a. A
	ВВВВ	Stopped status
	The number of sprocket hole in this section must be even	
Action	OFF setting of parity V check ena- ble parameter I13 makes data loa-	Clearing procedure
	ding possible.	S
	TANK MANAGEMENT OF STREET	Brightness
		N

558	PROGRAM END NOT FOUND	(, ,)
Cause	An attempt has been made to load a machining program that has an	Type of error
	EOR preceding the end M-codes (M02, M30, M99, M198, M199) or next work No. 0. The conditions for ending the program can be chan- ged using parameter IS8.	Α
		Stopped status
		L
Action	Since the loading of the machining program has already been completed, set an end M-code using the PROGRAM display.	Clearing procedure
		S
		Brightness
		N

559 C	DESIGNATED DATA NOT FOUND	1 1 1
Cause	The designated search data does not exist in the paper tape or floppy disk.	Type of error
		Α
		Stopped status
	100	L
Action	Designate other search data, or search the entire paper tape or floppy disk once again for the designated search data.	Clearing
		S
		Brightnes
		N

560 N	O PRINTER OPTION	(, ,)
Cause	rate the printer in the absence of a printer operation option.	Type of error
		Α
		Stopped status
	[8] [8] [8]	L.
Action	The printer cannot be operated because of the absence of a printer operation option.	Clearing procedure
		Ş
		Brightness
		N

561 SET THE NEW PAPER	(\cdot , \cdot)
Cause An attempt has been made to print out data despite the fact that the	Type of error
printer was not loaded with paper or	
not in a ready status for operation.	Stopped status
	L
Action (1) Load the printer with paper. (2) Set the printer ready for operation.	Clearing procedure S
	Brightness
	N

562 N	O DESIGNATED PROGRAM (WNo., ,)
Cause	The machining program you have made an attempt to print out does	Type of error
	not exist in the NC.	A I
		Stopped status
		L
Action	Check if the machining program of the designated work number exists	Clearing procedure
	in the NC.	S
•		Brightness
		N

563 P	RINTER I/O ERROR	1 1 1
Cause	A hardware error has occurred in the printer.	Type of error
	Mismatches exist in the RS-232C	G
	communication conditions bet- ween the printer and the NC.	Stopped status
		L
Action	Check for mismatches in the RS-232C communication conditions	Clearing
	between the printer and the NC.	S
	(Parameters within the NC): DV3 i1 through I8)	Brightness
		N

Cause	Type of error
	Stopped status
Action	Clearing procedure
	Brightness

565	PF	RINTER MIS-CONNECTED	(, ,)
Caus	•	A cabling error or a power-off sequence error occurred during	Type of error
	connection between the printer and	G	
		the NC.	Stopped etatus
			L
Actio	n	(1) Check for incorrect printer cable connections.	Clearing procedure
		(2) Check if the printer power is on.	,S
			Brightness
			N

566 5	YSTEM ERROR	(\cdot , \cdot)
Cause	A hardware error has occurred in the system.	Type of error
		E
		Stopped status
		L
Action	If the error cannot be cleared even after the NC power has been turned	Clearing procedure
	off and then turned back on, please contact your MAZAK service representative giving information about	S
	what type of operation you were carrying out when the error occur-	Brightness
	red, and the data which was dis- played in parentheses at that time.	N

Cause	An attempt has been made to print out the program being edited or	Type of error
	being loaded from an external I/O	Α
		Stopped status
		L
Action	Print out the program only after its editing or loading from an external I/O unit has been completed.	Clearing procedure
		S
		Brightness
		N

568 P	ARAMETER ERROR	(, ,)
Cause	The parameters for setting a num- ber of paper feed lines and for set-	Type of error
3	ting a number of lines per page are	A
	set incorrectly. (Only for I41 × 2 ≧ I42)	Stopped status
		L
Action	Check the parameter settings of the number of paper feed lines and the	Clearing procedure
	number of lines per page.	S
		Brightness
	HIDRY III-WII	N

569	DATA SIZE OVER (WNo	.,NOTE,
Caus	Blocks containing more than 256 characters per block exist in the	Type of error
	EIA/ISO machining program. (Or an EOB or an EOR is not present in 256 characters.)	A
	(NOTE) The number displayed after a work number is a line number that is crosskeyed to the number	Stopped status
	displayed at the lower right section of the PROGRAM display page.	L
Actio	Correct the machining program for EIA/ISO first.	Clearing procedure
	(Or include an EOB in 256 cha-	S
	racters.)	Brightness
		N

570	NO DNC OPTION	()
Cause	An attempt has been made to operate the DNC in the absence of a	Type of error
	DNC operation option.	Α
		Stopped status
		L
Action	The DNC cannot be operated because of the absence of a DNC	Clearing procedure
	operation option.	S
	THE PERSON NAMED OF THE PARTY O	Brightness
		N

Cause	Type of error
Action	Clearing procedure
	Brightness

- I est no est a la contraction

572 P	ARAMETER ERROR	(, ,)
Cause	During tool data loading, an error occurred because of differences from the parameter-set tool infor-	Type of error
		Α
	mation. (Or the loaded tool data does not	Stopped status
	match to the machine specifications.)	L
Action	Check the settings of machine para- meters B1 through B11 and C1 through	Clearing
	C11.	S
	Check if the loaded tool data is for the machine being operated.	Brightness
		N

573 LO	AD IMPOSSIBLE (TOO MANY) (V	/No., ,)
	An attempt has been made to load a larger number of machining programs	
	than the maximum number of machi-	Α
	ning programs that can be stored within the NC.	Stopped status
	a transmission of bull on any	L
Action	Delete unnecessary machining programs, or save such programs into an	Clearing procedure
	external storage unit and then delete	S
	them.	Brightness
	The same of the sa	N

Cause	An attempt has been made to load non-machining program data during	Type of error
	automatic operation.	Α
		Stopped status
		L
Action	Load the data only after completion of automatic operation.	Clearing procedure
	el maraniana abarana	S
		Brightnes
		N

575	K	DAD IMPOSSIBLE (MISMATCH)	(, ,)
Caus	e	An attempt has been made to load data despite the fact that the data	Type of error
		sent from the host was different	Α
		from the condition data within the NC. (Mismatches in data size and	Stopped status
		other parameters)	L
Action	Check that the data you have made an attempt to send from the host is	Clearing procedure	
		for the machine being operated.	S
			Brightness
			N

576 E	AME PROGRAM APPOINTED	MNo., ,)
Cause	An attempt has been made to load a machining program that has the	Type of error
	same work number as that of a	Α
	machining program existing in the NC.	Stopped status
		L
Action	Recheck work numbers for overlaps.	Clearing procedure
	This alarm implies that bit 2 of parameter 160 is placed in a ready status (ON) for saving old programs.	s
	Thus, if you set this bit to OFF (0), the intended program can be loa-	Brightness
	ded after deleting old programs.	N

577	NO DESIGNATED PROGRAM (V	VNo., ,)
Cause	The machining program you have made an attempt to send from the	Type of error
NC to the host does not exist in the NC.	Α	
	The machining program specified by a control command (work num-	Stopped status
	ber search, program delete) does not exist in the NC.	THE L
Action	Check if the machining program corresponding to the designated work number exists in the NC.	Clearing procedure
		S
		Brightness
		N

Cause	An attempt has been made to load a larger number of machining pro-	Type of error
	grams than the maximum number	A
	of machining programs that can be stored within the NC.	Stopped status
	W 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L
9	Delete unnecessary machining programs, or save such programs into an external storage unit and then delete them.	Clearing procedure
		S
		Brightness
		N

579	MEMORY PROTECT	(\cdot,\cdot)
Cause	An attempt has been made to load data despite the fact that the PRO-	Type of error
	GRAM LOCK/ENABLE switch on	Α
	the NC unit was in LOCK (write- protected) status.	Stopped status
		L
Action	BLE switch to its original position ENABLE (write-enabled status) before loading. This atarm implies that bit 3 of parameter 160 is placed in an active (write-enabled) status. Thus, if you	Clearing procedure
		s
		Brightness
	set this bit to ON (1), the PRO- GRAM LOCK/ENABLE switch can be deactivated.	N

580 N	MACRO OPTION	(, , , ,)
Cause 4	An attempt has been made to trans- fer a macroprogram despite the fact	Type of error
100	that macro option was not provided.	Α
		Stopped status
Action	Macroprogram data cannot be pro- cessed because of the absence of	Clearing procedure
-118	a macro option.	S.
		Brightness
		N

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

582 L	AYOUT SOFTWARE NOT COINCIDENT (WNo., ,)
Cause	Process layout data for the T2/T3 cannot be converted in structure.	Type of error
		Α
		Stopped
		L
Action	Since program loading itself will be performed, change the process	Clearing procedure
	layout.	S
		Brightness
		N

Cause	An attempt has been made to load a machining program having a data structure different from that of the	Type of error
		Α
	programs within the NC.	Stopped status
		L
Action	Check If the program sent from the host is for the T32 or for the	Clearing procedure
	T2/T3.	S
	Check for errors in the header block of the file transfer state-	Brightness
	ment.	N

584 R	ECEIVED DATA NOT COINCIDENT	(\cdot , \cdot)
Cause	An attempt has been made to load non-machining program data	Type of error
	having a data structure different from that stored within the NC.	Α
11	There are errors in the header block of the file transfer statement	Stopped status
	or in the data block. (include machining program)	L
Action	Check if the data sent from the host is for the T32 or for the	Clearing procedure
	machine being operated. • Check for version number errors	s
	in the header block of the file transfer statement or for sequence	Brightnes
	number errors in the data block.	N

585 C	ABLE MIS-CONNECTED	$(\cdot \cdot \cdot)$
Cause	A cabling error or a power-off sequence error occurred during	Type of error
	connection between the host and	G
	the NC.	Stopped status
Action	Check for Incorrect DNC cable connections.	Clearing procedure
	 Check if the host is powered on and ready for data transmis- sion/reception. If, although a DNC option is provi- 	S
	ded, the DNC is not yet cabled and you are not to use the DNC for the	Brightness
	time being, this alarm message can be made not to appear in any case by setting bit 1 of parameter 160 to OFF (0).	N

586 S	YSTEM ERROR	(,,)
Cause	An error has occurred in the system.	Type of error
	9,500111	E
	Table 1 and 11 Property of State 2	Stopped status
	- III - III - III - III - III III III I	L
Action	If the error cannot be cleared even after the NC power has been turned	Clearing procedure
	off and then turned back on, please contact your MAZAK service representative giving information about	S
	what type of operation you were carrying out when the error occur-	Brightness
	red, and the data which was dis- played in parentheses at that time.	N

Cause	An attempt has been made to send to the host the program being edi-	Type of error
	ted or being loaded from an exter-	Α
	nal I/O unit.	Stopped status
		L
Action	Send to the host the program only after its editing or loading from an	Clearing procedure
	external I/O unit has been com-	S
	pleted.	Brightness
		N

588 D	ATA OPERATION NOT ALLOWED	(, ,)
Cause	An attempt has been made to load non-machining program data	Type of error
	during automatic operation. An attempt has been made to send to the host the data being loaded from an external I/O unit. An attempt has been made to load the data being saved from an external I/O unit.	A
		Stopped status
Action	Wait until automatic operation or loading/saving from an external I/O	Clearing procedure
unit is completed.		S
		Brightness
		N

(\cdot,\cdot)
Type of error
Stopped etatus
Clearing procedure
Brightness

590	DNC COMMAND IMPOSSIBLE	(\dots)
Cause	The control command issued from the host cannot be executed since	Type of error
	the NC is not ready for data pro- cessing. • A work number search request was issued during automatic ope-	A
	ration. • A request for deletion of the machining program being used	Stopped status
	during automatic operation was issued while automatic operation was in progress.	L
Action	Wait until the NC becomes ready for data processing (this status is	Clearing
	automatically set on completion of	S
	automatic operation). Then, issue the intended request once again.	Brightness
	a	N

591 M	ACRO COMMAND IMPOSSIBLE (W	No., ,)
Cause	The macroprogram control com-	Type of error
	be executed since the NC is not	Α
	ready for data processing. (Intermediate codes cannot be	Stopped status
	registered or deleted.)	L
Action	Check for errors in the macroprogram intermediate codes and in the	Clearing procedure
	designated macroprogram.	S
		Brightnes
		N

592 F	ECEIVED ILLEGAL COMMAND	(\cdot , \cdot)
Cause	The control command or file trans- ter command that has been sent	Type of error
	from the host is a nonexistent command. • The machine number that was	·A
	designated prior to the start of non-machining program data load-	Stopped status
	ing is different from the machine number prestored within the NC.	L
Action	Check the contents of the com- mand message which was sent	Clearing procedure
	from the host. Check If the designated machine number is the same as the	s
	machine number prestored within the NC, that is, as the setting of	Brightness
	parameter I35.	·N

593 DNC I/O ERROR	
Cause • Processing was int	
(such as line noise during DNC I/O op • Mismatches exist li	erations. G
communication cor between the host a	ndition settings Stopped and the NC.
The condition setting number of times of are not correct.	
Action • Perform hardware on NC and the host, a	
checks. Check for mismato RS-232C communi settings between the	cation condition s ne host and the
 Change the condition time-out, number of 	f times of repe-Brightness
tition, etc. to those set on the host sid	θ.
(Parameters within t through 18, and 125	through I40) N

594	SEND-RECEIVE ERROR	(, ,)
Cause	repetition was exceeded during	Type of error
	transmission/reception of com- mand messages. • Mismatches exist in the RS-232C	G
	communication condition settings between the host and the NC.	Stopped status
	 The condition settings of time-out, number of times of rapetition, etc. are not correct. 	L
Action	Perform message checks on the host side, as well as line checks.	Clearing procedure
	 Check for mismatches in the RS-232C communication condition settings between the host and the NC. Change the condition settings of 	S
	time-out, number of times of repe- tition, etc. to those which are pre-	Brightness
	set on the host side. (Parameters within the NC: DV4 11 through I8, and I25 through I40)	Ŋ

595	FILE TRANSFER ERROR	()
Cause	The current number of times of repetition was exceeded during	Type of error
	transmission/reception of file messages. • Mismatches exist in the RS-232C	G
	communication condition settings between the host and the NC.	Stopped status
	 The condition settings of time-out, number of times of repetition, etc. are not correct. 	
Action	Perform message checks on the host side, as well as line checks.	Clearing procedure
	 Check for mismatches in the RS-232C communication condition settings between the host and the NC. 	s
	Change the condition settings of time-out, number of times of repetition, etc. to those which are pre-	Brightness
	set on the host side. (Parameters within the NC: DV4 I1 through I8, and I25 through I40)	N

596 D	NC MALFUNCTION	(, ,)
Cause	An uncorrectible hardware error occurred during reception of the	Type of error
	first message (ENO) from the host.	G
		Stopped status
	Committee to the land of the l	L
Action	Perform hardware checks on the NC and the host, as well as line	Clearing procedure
	checks, and then restart from the	S
	beginning (that is, from the NC power-on sequence).	Brightness
		N

597 5	TOP POWER IN DNC OPERATION	(, ,)
Cause	The NC power was turned off during the operation of the DNC.	Type of error
	during are operation or are arrive	A
		Stopped status
		L
Action	Check for data errors in the machining program being used, and if they exist, operate the DNC once again. If the NC power has been turned off during loading of the machining program, reload the program after	Clearing procedure
		s
		Brightness
	deleting the loaded portion.	N

598 N	O EIA/ISO OPTION	(, ,)
Cause	An attempt has been made to trans- fer an EIA/ISO program despite the	Type of error
	fact that an EIA/ISO option was not	Α
	provided.	Stopped status
		L
Action	EIA/ISO program data cannot be processed because of the absence of an EIA/ISO option.	Clearing procedure
		S
		Brightness
		N

599 D	ESIGNATED DATA NOT FOUND	(11)
Cause	A request for transmission/reception of data not existing in the NC	Type of error
	has been issued from the host.	G
	A request for transfer of more data then can be managed by the	Stopped status
	NC has been issued from the host.	
Action	Check the contents of the message in the request command which has been sent from the host.	Clearing procedure
		S
		Brightness
		N

601 N	O DESIGNATED PROGRAM (W	No., ,)
Cause	The MAZATROL machining program corresponding to the designated work number does not exist in the memory.	Type of error
		В
		Stopped
		J
Action	Check If the work number is wrong and designate the correct one, or	Clearing procedure
	load the machining program to be	Р
	executed.	Brightness
		н

602 D	ATA NOT FOUND	(WNo., ,)
Cause	(1) An attempt has been a	
	ted or being entered for external input unit.	
	(2) The program has enter abnormal condition be	cause of a status
No.	possible reduction in to battery voltage.	J J
Action	(1) Execute the program only after completion of its editing or entry.	only after Clearing procedure
	(2) Reload the machining	program P
	to be executed.	Brightness
		H

603 D	ATA NOT FOUND (WN	o.,PNo.,)
Cause	The designated process number does not exist in the MAZATROL	Type of error
	machining program corresponding	В
	to the previously designated work number.	Stopped status
		J
Action	Check If the process number is wrong and designate the correct one, or load the machining program to be executed.	Clearing
		Р
		Brightnes
	# 1 40 J HILL 1 4	HI

Cause	Although the machining process corresponding to the previously designated process number exists, the designated machining type (R for rough-machining, or F for finish-machining) is not registered for that process.	Type of error
		B
		Stopped status
		J
Action	Check if the machining type is wrong and designate the correct one, or load the machining program to be executed.	Clearing procedure
		P
		Brightness
		H

605	ILLEGAL MAZATROL DATA (W	/No., ,)
Cause	The MAZATROL machining program of the designated work number can-	
	not be executed because structural	В
	errors exist in that program.	Stopped status
	THE RESERVE THE SPECIAL PROPERTY.	J
Action	Reload the machining program to be executed.	Clearing procedure
		Р
	The second of	Brightness
		Н

606	LLEGAL PROCESS (WN	o.,PNo.,)
Cause	(1) Process data not acceptable for the machine specifications exists	Type of error
	in the program you have made an attempt to execute. (2) SEP or TRS process data exists in the system memory despite the fact that the program you	В
	have made an attempt to exe- cute is not a COMPLEX	Stopped status
	program. (3) The TPC data does not match to the process you have made an attempt to execute.	, J
Action	(1) Delete process data not accepta- ble for the machine specifi-	Clearing procedure
	cations. (2) Delete the SEP or TRS process	Р
	data. (3) Delete the TPC data, and then	Brightness
	create correct TPC data.	Н

607	PROCESS DATA NOT FOUND (WNo	.,PNo.,)
Cause	Data Items remaining blank exist in the process data items correspon-	Type of error
	ding to the process you have made	В
	an attempt to execute.	Stopped status
		J
Action	Set data in all blank data items.	Clearing procedure
)[Р
		Brightness
		i H

608 ILLEGAL PROCESS DATA (V	/No.,PNo.,)
Cause Data out of the allowable setting range exists in the process data	Type of error
corresponding to the process you	В
have made an attempt to execute.	Stopped status
	J
Action Delete unallowable data, and then set correct data.	Clearing procedure
94. 451740. Gala.	P
	Brightness
	Н

609 II	LEGAL SEQUENCE DATA (WNo.,	PNo.,SNo.)
Cause	Sequence data corresponding to the process you have made an attempt	Type of error
	to execute does not match to the	В
	process data.	Stopped status
		J
Action	Delete the existing sequence data, and then set correct sequence data.	Clearing
	and their ser correct sequence data.	Р
		Brightness
		: H

610 S	EQUENCE DATA NOT FOUND (WN	o.,PNo.,)
Cause	No sequence data exists for the process you have made an attempt	Type of error
	to execute.	В
		Stopped status
		J
Action	Set sequence data.	Clearing procedure
		Р
		Brightness
		Н

Cause	The number of lines of sequence data for the process you have made.							Type of error
	an attempt to execute is in excess of a predetermined number of lines. The predetermined number of lines is as follows:							
	COLANON	MTR	BAR	CPY	CNA	EDG	THR	
	0	1-25	1-25	1-25	1	1	1-25	В
	GRV	M	MES	MMS	MENP	ММР	DRL	
	1	0	1	1	0- Free	0~ Free		
	TAP	MDR	MTP	BOR	MGV	LCT	RGT	
	1	1-25	1-25	1-25	1-25	1-25	1-25	Stopped
	UFT	MCR	END	TLY	TRS	SEP		92.03
	1-25	0	0	0	0	0		
	(NOTE) • A maximum of 25 lines of MTR data are available for each of IN and OUT. • "Free" means that unless a maximum allowable of lines is exceeded, any number of lines of MAZATROL program data can be saved.							J
Action	on Reduce the number of lines of sequence data.							Clearing
	ooqu	J.100		300				Р
								Brightness

612	SEQUENCE DATA NOT FOUND (WNo.,I	PNo.,SNo.)
Cause	Data items remaining blank exist in the sequence dat items correspon-	Type of error
	ding to the process you have made	В
	an attempt to execute.	Stopped status
		J
Action	Set data in all blank data items.	Clearing procedure
		Р
		Brightness
		н

613 IL	LEGAL SEQUENCE DATA (W	No.,PNo.,SNo.)
Cause	Data out of the allowable setting range exists in the sequence da	
	corresponding to the process yo	
	have made an attempt to execut	
		J
Action	Delete unallowable data, and the set correct data.	en Clearing procedure
		Р
		Brightness
		. н

614 U	NFINISHED TOOL SET (WN	o.,PNo.,)
Cause	Tooling data does not exist for the tools that are to be used for the	Type of error
200	process you have made an attempt	В
	to execute.	Stopped status
		J
Action	Set tooling data for the tools that are to be used.	Clearing procedure
	are to be used.	P
		Brightness
		H

615	DESIGNATED TOOL NOT FOUND (WNo	.,PNo.,)
Cause	The tools to be used for the pro- cess you have made an attempt to execute are not yet registered in tool data.	Type of error
		В
		Stopped status
		J
Action	Check the tool data and register the necessary tools.	Clearing procedure
	art to Friday and to exceed	Р
	I THE SHOOT HE SEE ACTION	Brightness
	- The State of the same of the same	Н

616 IL	LEGAL CUTTING POINT (WN	o.,PNo.,)
Cause	The Infeed point specified by the process data of the process (BAR,	Type of error
	CPY) you have made an attempt to	В
	execute is outside the profile of the workpiece (approximate workpiece	Stopped status
	shape specified by common data).	J
Action	Move the infeed point into the pro- file of the workpiece.	Clearing
	tile of the trempleces	P
		Brightnes
		Н

817	ILLEGAL CUTTING START POINT (WN	lo.,PNo.,)
Caus	The relative position of the starting or ending point specified by the	Type of error
	sequence data with respect to the infeed point specified by the process data of the process (BAR, CPY) you have made an attempt to execute, is not appropriate.	В
		Stopped status
		J
Action	Change the position of the starting or ending point of the sequence data, or change the position of the infeed point.	Clearing procedure
		P
		Brightness
		Н

Cause	The starting or ending point speci- fied by the sequence data of the process you have made an attempt to execute is outside the profile of the workpiece (approximate work- piece shape specified by common data).	Type of error
		В
		Stopped status
		J
Action	Move the starting or ending point into the profile of the workpiece.	Clearing procedure
DARRING		Р
		Brightness
		Н

Cause	Sequence data exists that does not allow the direction of machining (forward or backward) to be determined	Type of error
		В
	from the sequence data and the position of the infeed point specified by the process (BAR, CPY) data you	Stopped status
	have made an attempt to execute.	J
Action	Change the data of the starting or ending point in the sequence data.	Clearing procedure
		P
		Brightness
		Н

620 R	EVERSE SHAPE CONTOUR (WNo.,	PNo.,SNo.)
Cause	Part of the workplece shape defined by the sequence data of the process (BAR, CPY) you have made an attempt to execute is opposite in direction of machining with respect to the reference axis movement direction.	Type of error
		В
		Stopped status
		J
Action	Correct the position of the starting or ending point specified in the sequence data.	Clearing procedure
		P
		Brightness
		H

621	DOUBLE SHAPE CONTOUR (WNo.,F	No.,SNo.)
Cause	The workplece shape defined by the sequence data of the process (BAR,	Type of error
	CPY) you have made an altempt to	В
	execute has overlaps in direction of machining.	Stopped status
		J
Action	Correct the position of the starting or ending point specified in the sequence data.	Clearing procedure
		Р
		Brightness
		·H

622	ILLEGAL RADIUS (WNo.,!	PNo.,SNo.)
Cause	Cause Arc-drawing data in the sequence data of the process (BAR, CPY, LCT	Type of error
RGT, LFT, MNP, MMP) you have	RGT, LFT, MNP, MMP) you have made an attempt to execute is	В
	wrong. That is, the relationship between the	Stopped status
	starting point, ending point, and radius of the arc is incorrect.	J
Action	Correct the starting-point data, ending-point data, or radius data in the sequence data.	Clearing procedure
	rue seduante gare:	Brightness
		н

623 I	LLEGAL CORNER DEFINITION (WNo.,I	PNo.,SNo.)
Cause	In the sequence data of the process (BAR, CPY, CNR, GRV) you have	Type of error
	made an attempt to execute, there are the following errors related to the designated corner-C drawing data: <bar, cnr="" cpy,=""></bar,>	₿ ;;
	The length of the block (or arc) pre- sent before or after of corner C you	Stopped etatus
	have made an attempt to add is smaller than that of comer C. <grv> Added corner C is outside the profile of the workpiece.</grv>	
Action	Correct either the length of comer C or the sequence data set before or after of the comer.	Clearing procedure
		Р
		Brightness
		· H

624	EXCEEDS NUMBER OF SHAPES (WNo	.,PNo.,)
Cause	Shape data for the process (BAR, CPY, LCT, RGT, LFT) you have made an attempt to execute or shape of workplece defined in the MTR process is too complicated to be processed.	Type of error
		В
		Stopped status
		J
Action	Simplify the shape of the workplece or the shape defined by the sequence data.	Clearing procedure
4		Р
		Brightness
	40.00	1H

Gause	The total number of valleys in the workplace shape defined by the	Type of error
	sequence data of the process (BAR)	В
you have made an attempt to exe- cute is in excess of 10, the maxi-		Stopped status
	mum allowable number.	J
Action	Simplify the shape defined by the sequence data.	Clearing procedure
	esquence data.	Р
		Brightness
		i H

the second section of the second

626 C	COMMON DATA NOT FOUND	(WNo., ,)
Cause	Common process data does not exist in the beginning part of the	Type of error
	data of the designated work	В
	number.	Stopped
	Marie Control of the	J
Action	Load or set the program once again.	Clearing procedure
		Р
		Brightness
		Н

The relationship between "OD-	Type of error
process data of the designated work number is not as follows:	В
(Maximum allowable (Minimum allowable outside diameter > inside diameter ≥ 0	Stopped status
of workpiece) of workpiece)	J
Action Correct "OD-MAX" or "IN-MIN".	Clearing procedure
	Р
	Brightnes
···································	

628 IL	LEGAL COMMON DATA (AXIAL) (WNo	.,PNo.,)
Cause	Cause The relationship between the work- piece length (LENGTH), workpiece	
	edge protrusion length (WORK FACE), and product length (FIN-LENGTH) in the common process	В
	data of the designated work number is not as follows:	Stopped status
(LENGTH)≥(WORK FACE)+(FIN-LENGTH)>0 (WORK FACE), (FIN-LENGTH)>0		J
Action	Correct either "LENGTH", "WORK FACE", or "FIN-LENGTH".	Clearing procedure
	THE PROPERTY OF THE PROPERTY OF	THE P.
	The second of an in the second	
	The Control of the co	H

629 MATERIAL SHAPE CROSSING (WNo., PNo., SNo.)		
Cause	There is a data overlap between the inside diameter side (IN) and out-	Type of error
	side diameter side (OUT) of the	В
	workplece shape which has been designated for the MTR process.	Stopped
	S VI	J
Action	Redefine the IN or OUT workpiece shape data.	Clearing procedure
	11	Р
		Brightness
		1 H

Cause	Either tool No. or pocket numbers are missing in the TLY process data.	Type of error
		В
		Stopped statue
		J
	Set both a tool No. and a pocket number in each data item.	Clearing procedure
		Р
		Brightness
		н

	XCESSIVE FINISH ALLOWANCE	
Cause	The area to be rough-cut does not exist since the designated finishing allowance is too large for the shape defined by the sequence data.	Type of error
for U		B
		Stopped status
		J
Action	Either change the finishing allowance or cancel rough-cutting.	Clearing procedure
		P
		Brightness
		н

832 IL	LEGAL SHAPE DESIGNATED (CNR) (WNo.,	PNo.,SNo.)
Cause	Cause In the CNR process data, the rela- tionship between the starting point	
	(SPT-X/Z) and the ending point (EPT-X/Z) that are defined in the sequence data is wrong.	В
		Stopped status
		J
	Correct the coordinates of the star- ting or ending point.	Clearing procedure
	ang or origing point.	P
		Brightness
		Н

Cause	In the EDG process data, the relationship between the starting point and the ending point that are defined in the sequence data is wrong.	Type of error
		В
		Stopped status
		J
Action	Correct the coordinates of the start- ing or ending point.	Clearing procedure
		P
		Brightness
		Н:

Cause In the GRV process, the second and subsequent grooves of all those		Type of error
	which have been designated for the	В
	GRV process are outside the work- piece profile defined by common	Stopped
	data.	J
Action	Reduce the number of grooves.	Clearing
		Ρ
		Brightness
		н

Cause	in the THR process data, the designated number of times of cutting of #0, #3 thread type is less than 2.	Type of error
		В
		Stopped status
		J
Action	Change the number of times of cut- ting to 3 or more, or change the	Clearing procedure
	thread type.	P
		Brightnes
		• Н

Cause	The width of the designated tool does not match to the groove shape epecified in the GRV process data.	Type of error
		8
11		Stopped status
		J
Action	Designate some other tool, or change the width of the designated tool.	Clearing procedure
		Р
	beautiful besteld the state	Brightness
		н

Cause	In the THR process data, the calculated distance of threading accelera-	Type of error
	tion is in excess of the clamp data.	В
		Stopped
		J
Action	After checking for safety, change the parameter.	Clearing
		P
		Brightness
		н

Cause	In the GRV process data, the parameter-set amount of grooving	Type of error
#1 IV	overlap is larger than the width of the designated tool.	В
		Stopped status
		J
Action	Either designate some other tool, change the width of the designated tool, or change the parameter setting.	Clearing procedure
		P
		Brightness
		н

Cause	In the GRV process data, the relationship between the starting point (SPT-X/Z) and the ending point	Type of error
		В
	(FPT-X/Z) that are defined in the sequence data is wrong.	Stopped status
	4401.00	J
Action	Correct the coordinates of the starting or ending point.	Clearing procedure
		Р
		Brightness
		HI

840 ILLEGAL DRILLING DIRECTION (WNo.,	PNo.,\$No.)
Cause In the hole-machining process (DRL, TAP) data, the relationship	Type of error
between the starting point (SPT-Z)	В
and the ending point (FPTZ) that are defined in the sequence data is	Stopped status
wrong.	J
Action Correct the Z-axis coordinates of	Clearing procedure
the starting or ending point.	Р
	Brightness
	Н

641 11	LEGAL G-CODE INPUT	(, ,)
Cause	Unavailable G-code commands have been designated for the	Type of error
	manual operation process (MNP,	В
	MMP).	Stopped status
		J
Action	Change the G-code commands to correct ones.	Clearing procedure
		Р
		Brightness
		- н

644	ILLEGAL FEEDRATE DATA (WNo.	,PNo.,9No.)
Caus	The synchronous or asynchronous feed data designated in the manua	Type of error
	operation process (MNP, MMP) date	В
	is not appropriate for the G-code command set in the sequence data.	Stopped
		J
Action	Change the synchronous or asynchronous feed data.	Clearing
		P
		Brightness
		Н

642	ILLEGAL AXIS INPUT (WNo.,F	No.,SNo.)
Cause	An axis that is illegal for the G-code command in the sequence data has	Type of error
been designated for the manual operation process (MNP, MMP).	В	
ž (w	Or the same axis is designated more than 2 in 1 sequence data of the manual operation process (MN)	Stopped status
	MMP).	J
Action	Delete all move commands related to the illegal axis.	Clearing procedure
		Р
		Brightness
		Н

645	CORNER (R/C) DESIGNATED OVERLAP (WNo.,	PNO.,SNO.)
Cause	In the sequence data of the process (BAR, CPY), different types of	Type of error
	corners (R or C) have been designated for portions that are identical in shape.	В
		Stopped status
		J
Action	Check the designated comer por- tions and delete one of the corners.	Clearing procedure
		P
		Brightness
		Н

643 B	AILLING TOOL DIA NOT FOUND	(,,,)
Cause	(1) The diameter of the tool to be used during the process (DRL,	Type of error
	TAP, MSG, MDR, MTP, BOR, MGV, LCT, RGT, LFT) is unset or is set to 0.	В
	(2) The diameter of the sensor tool to be used during the measure-	Stopped etatus
	ment process (MES) is unset or is set to 0.	J
Action	Set the correct diameter of the tool or sensor tool you want to use.	Clearing procedure
	of Bensel Loryou want to use.	P
		Brightness
		н

Cause	(threading) proc	0" type of THR es data, the follow-	Type of
ing relationship exists: (Finishing allowance) > (First depth-of-cut/4) L Calculated from the height (MGT) and the		В	
		number of times (NUMBER) that are specified by the	Stopped status
	process data. Specified by parameter U39.	J	
Action	Change either ti	he thread height or	Clearing procedure
	and doming of pa		Р
			Brightness
			→ H

Cause	Threading is not possible since the relationship between the thread	Type of error
	shape and threading angle that are	В
	defined by the first sequence data of the THR process is incorrect.	Stopped status
		J
Action	Change the threading angle, or change the coordinates of the starting or ending point of the first sequence.	Clearing procedure
		Р
		Brightnes
		H.1

651 L	AYOUT UNABLE (WN	o.,PNo.,)
Cause	Because of lack of data, automatic creation of layout data is not possi-	Type of error
	ble and thus the program cannot be	В
	executed.	Stopped status
		J
Action	Check the machining program for tool or SEP/TRS head selection	Clearing procedure
	errors.	Р
		Brightness
		н

648	ILLEGAL THREAD ANGLE (WN	o.,PNo.,)
Cause	In the THR process data that requires the designating of a threading	Type of error
	angle, "ANG" (threading angle) is	В
	not in the following range. (Tool tip angle) ≤ (Threading angle)	Stopped status
		J
Action	Change either the threading angle, the type of tool to be used, or tool	Clearing procedure
	data.	Р
		Brightness
		Н

652 L	AYOUT SIZE EXCEED (V	/No., ,)
Cause	Automatic creation of process layout data, although attempted prior to	Type of error
	execution of machining programs,	В
	has failed because of lack of an available storage area in the layout	Stopped status
	data storage memory.	J
Action	Delete an unnecessary machining program(s).	Clearing procedure
		P
		Brightness
		н

649 IL Cause	In the THR process data, the rela- tionship between the thread height	Type of error
	and the finishing allowance is not:	В
(Finishi	ng allowance) ≤ (Thread height)	Stopped
Designated in the process data.	etatus	
Set using parameter U39.		J
Action Change the thread height or the setting of parameter U39.		Clearing procedure
	Setting of parameter over	Р
	Brightness	
		Н

653	IN	TERSECTION NOT FOUND (WNo.,I	PNo.,SNo.)
Caus	Although crossing-point calculation was attempted because a data item		
		denoting uncalculated crossing-point	В
		data (?) was present in the sequence data of the process, no calculations were obtained since	Stopped status
		there are data disparities.	7
Actio	n	Correct the sequence data.	Clearing procedure
		A STATE OF THE REAL PROPERTY.	Р
			Brightness
		The second second	н

654 D	Although crossing-point calculation was attempted because a data item denoting uncalculated crossing-point data (?) was present in the sequence data of the process, no calculations were obtained since there are lack of datas.	Type of error
		В
		Stopped status
		J
Action	Correct the process data or the sequence data.	Clearing procedure
		P
		Brightness
	=	н.

655	INTERSECTION CALCULATE IMPOSS. (WNo.,	PNo.,SNo.)
Cause	Although crossing-point calculation was attempted because a data item	Type of error
	denoting uncalculated crossing-point data (?) was present in the se-	В
	quence data of the process, no cal- culations were obtained since there	Stopped status
	are illegal datas.	7
Action	Correct the process data or the sequence data.	Clearing procedure
		Р
		Brightness
		н '

656 N	The rolating direction of the spindle	Type of
	or milling tool cannot be determined since the "FWD/REV R/L" data item	В
	in "TOOL DATA (2)" which cor- responds to the designated tool is	Stopped status
	left blank.	J
Action	Set data in "FWD/REV R/L" or designate some other tool.	Clearing procedure
		Р
		Brightness
		н

657 N	O DEPTH OF CUT INFO.	()
Cause	The depth of cutting with the milling tool cannot be determined since the	Type of error
	"DEP-AMO/DEP-ANG" data Item in	В
	TOOL DATA (2)" which cor- responds to the designated tool is	Stopped etatus
	left blank.	J
Action	Set data in "DEP-AMO/DEP-ANG" or designate some other tool.	Clearing
		P
	Andrew Co., in	Brightness
	ľ	Н

658	ILLEGAL TPC DATA (WA	lo.,PNo.,
Cause	Data out of the allowable setting range exists in the TPC data of the	Type of error
	process you have made an attempt	В
	to execute.	Stopped status
		J
Action	Correct the data error(s).	Clearing procedure
		Р
		Brightness
		Н

659 C	ATA NOT FOUND (WNo.,PNo.,)
Cause	The "Z1", "Z2", and "Z-OFFSET" setup data itmes for the TRS	Type of error
	process you have made an attern	ipt B
	to execute are left blank.	Stopped status
		J
Action	Action Set correct data in the setup data items.	Clearing procedure
		Р
		Brightness
		н

660 N	O ELAJISO OPTION (WN	o.,PNo.,)
Cause	The EIA/ISO program that has been designated as the next program to	Type of error
	be executed is set in the END pro-	8
	cess data of the currently running program despite the fact that the system does not have an EIA/ISO	Stopped status
	program execution option.	. J
Action	Check the work number for error, or reload the machining program to be executed.	Clearing procedure
		P
		Brightnes
		н

661	EXCESSIVE GROOVE WIDTH (WN	o.,PNo.,)
Cause Machining within the allowable stroke of the dummy Y-axis is not possible since the groove width (GRV-WID) that has been set for MGV is too large for that tool. (Only for a system that has a dummy Y-axis.)		Type of error
	В	
	The allowable stroke of the dummy Y-axis is as follows:	Stopped status
	- (Setting of parameter B65/2) ≤ Allowable stroke ≤ (Setting of parameter B65/2)	J
Action	Designate a tool that has a suffi- ciently large diameter, or reduce the	Clearing procedure
	groove width and perform machining within the allowable stroke.	Р
		Brightness
		Н

662	ILLEGAL YAXIS DATA (WN	o.,PNo.,)
Caus	The Y-coordinate of the program is outside the allowable stroke of the	Type of error
	dummy Y-axis. (Only for a system that has a dummy Y-axis.) The allowable stroke of the dummy	Ð
	Y-axis is as follows:	Stopped
	 – (Setting of parameter B65/2) ≤ Allowable stroke ≤ (Setting of parameter B65/2) 	J
Action	Reduce the Y-coordinate below the	Clearing procedure
		Р
		Brightness
		Н

680 N	ACRO PROGRAM NOT FOUND (WN	o.,PNo.,)
Cause	The macroprogram (MAZATROL MACRO) that has been designated	Type of error
	for the MCR process is an unregis-	В
	tered one.	Stopped status
		J
Action	Change or register the name of the macroprogram to be called up.	Clearing procedure
		Р
		Brightness
		н

681 IL	LEGAL MACRO G-CODE (WA	lo.,PNo.,)
Cause	The macroprogram (MAZATROL MACRO) cannot be executed since	Type of error
	illegal G-codes are included in it.	В
		Stopped status
		J
Action	Change the G-codes.	Clearing procedure
		Р
		Brightness
		н

Cause	The macroprogram (MAZATROL MACRO) cannot be executed since	Type of error
	more exes than allowable for the	В
	macroprogram have been designated.	Stopped
-	makes a various so	J
Action	Reduce the number of axes.	Clearing procedure
		Р
		Brightness
		н

683	ILLEGAL AXIS INPUT (MACRO) (WNo	.,PNo.,)
Cause	The macroprogram (MAZATROL MACRO) cannot be executed since	Type of error
	exis addresses not allowable for the	В
	macroprogram have been designated.	Stopped status
		J
Action	Reduce the number of axis addres- ses, or change part of the axis	Clearing procedure
	addresses.	Р
		Brightness
		Н

684 F	EEDRATE ZERO (MACRO) (WN	o.,PNo.,)
Cause	The feedrate (F) designated in the macroprogram (MAZATROL	Type of error
	MACRO) is not a positive value.	В
		Stopped status
		J
Action	Change the value of F to a positive one.	Clearing procedure
		Р
		Brightness
		Н

685 N	I-CODE OVER (W	No.,PNo.,
Cause	More than four M-codes per block are set in the macroprogram	Type of error
	(MAZATROL MACRO).	В
		Stopped status
	ATTENDED TO SECURE	J
Action	Reduce the number of M-codes below four per block.	Clearing procedure
	2010W 1021 POT 2100M	Р
		Brightness
		н

686 S	PINDLE ZERO (MACRO) (W	No.,PNo.,
Cause	The speed (S) designated in the macroprogram (MAZATROL	Type of error
	MACRO) is not a positive value.	В
		Stopped status
	1000 1000 1000	J
Action	Change the value of S to a positive one.	Clearing procedure
		Р
		Brightness
	1	Н

687	SF	PINDLE ZERO (MACRO) (WA	io.,PNo.,)
Caus	6	The peripheral velocity (V) designated in the macroprogram (MAZA-	Type of error
-		TROL MACRO) is not a positive	В
		value.	Stopped status
			J
Actio	n	Change the value of V to a positive one.	Clearing procedure
		5.16.	Р
			Brightness
			Н,

Cause	The addresses that must not be set in two or more places within one block exist in one or more blocks of the macroprogram (MAZATROL MACRO).	Type of error
		В
		Stopped status
		J
Action	Delete one or more of the addresses of the same type.	Clearing procedure
		Р
	THE THE CONTRACTOR	Brightness
		I B

689 A	DDRESS OVER (W	No.,PNo.,)
Cause	A block containing more than 20 addresses exists in the macropro-	Type of error
	gram (MAZATROL MACRO).	В
		Stopped
	Company was provided to	J
Action	Delete the excess number of addresses, or divide the command:	Clearing
	into two blocks.	Р
		Brightness
		Н

ause	One or more of the following errors occurred during execution of the macroprogram:	Type of error
Error No.	Error description	
	The intermediate code header information is wrong.	
2	The area handled by the interpreter is insuficient.	
3	The quantities of both arguments existing during macro call from a macro are not the same.	
6	After debugging, the number of arguments described in the program became smaller than that of arguments which were entered.	В
6	After debugging, the number of arguments described in the program became larger than that of arguments which were entered.	
7	The number of times of nesting for macro call is in excess of its maximum allowable number (10).	
8	Array statement error (The array size defined in DIM statement is exceeded)	
9	In COM ≠(i) or COM@(i), the value of I is illegal (the value of I is minus or in excess of the value set in macro control block).	Stopped status
10	During division, the divisior is 0.	
11	The function (MACSEARCH, SMAC- SEARCH) that returns the code area pointer of the macro has error- returned.	
12	In SCOM # (ī) or SCOM@(ī), the value of i is lilegal (the value of i is minus or excess of the value set in macro control block).	
13	Instruction word error.	J
14	The number of machining programs is larger than the value set in the macro control block.	
15	Unregistered external functions are given.	
17	The stack handled by the interpreter is overflowing or underflowing.	
18	The divisor for calculation of MOD is 0.	
20	The type of arguments for macro call is illegal.	
Action	Correct and re-register the macro-program.	Clearing
		Brightnes

699 8	HAPE MANEGEMENT IMPOSSIBLE (WNo.,	PNO.,SNO.)
Cause	The shape data that has been deli- ned in the sequence data of the	Type of error
	process (BAR, CPY) cannot be cor-	8
	rectly processed.	Stopped etatus
		J
Action	Change the machining program or tool data to such an extent that no	Clearing procedure
	machining error is likely to occur (say, down to several micrometers). Normal operation may then resume, because this alarm is usually due to a calculation error.	Р
	If the situation does not improve even after such changes have been	Brightness
	made, your MAZAK service repre- sentative should be contacted for assistance.	н

701	SIMULTANEOUS AXIS OVER	(, ,)
Cause	The number of axis addresses per block is in excess of the specifi-	Type of error
	cations.	В
	*	Stopped status
	-	J
Action	Divide the addresses in the alarm block into two groups.	Clearing procedure
	Check against the specifications.	P
	and of the second difference and	Brightness
		Н

702 IL	LEGAL AXIS NAME	$(\cdot \cdot \cdot)$
Cause	The axis address name in the program is different from that which	Type of error
	has been parameter-set.	В
		Stopped status
		J
Action	Correct the axis address name in the program.	Clearing procedure
	are program	P
		Brightness
		Н

703 D	IMENSION DETECTING ERROR	(, ,)
Cause	Axis addresses that cannot be divi- ded in address units have been set.	Type of error
	100000	В
		Stopped status
		J
Action	Review the program.	Clearing procedure
		P
		Brightness
		Н

Cause	The programming format is not correct.	Type of error
		В
		Stopped status
		J
Action	Review the program.	Clearing
		Р
		Brightness
		H

704	PARITY H ERROR	(, ,)
Cause	The number of holes per character in the paper tape is even (for EIA	Type of error
	codes) or odd (for ISO codes).	В
-	2	Stopped status
	W	J
Action	Check the paper tape. Check the tape reader and the	Clearing procedure
	tape puncher for normal ope-	Р
	ration.	Brightness
		Н

708 IL	LEGAL G-CODE	(, ,)
Cause	G-codes not available for your machine are included.	Type of error
	madrinio ald molagos.	
-		Stopped status
- 5		J
Action	Check and correct G-code address errors in the program.	Clearing procedure
	energy at the program.	P
		Brightness
		Н

705 F	PARITY V ERROR	(, ,)
Cause	The number of characters per block on the paper tape is odd.	Type of error
		В
	•	Stopped status
	The second secon	J
Action	Make the number of characters per block on the paper tape even.	Clearing procedure
	Set the parity-V selection parame-	P
	ter to OFF.	Brightness
		Н

709 IL	LEGAL NUMBER INPUT	(, ,)
Cause	The address setting range has been overstepped.	Type of error
		В
ine		Stopped status
		J
Action	Review the program.	Clearing procedure
	ĺ	P
		Brightness
		Н

706 II	LEGAL ADDRESS	(, ,)
Cause	Addresses not available for the machine specifications have been	Type of error
	set.	В
		Stopped status
		J
Action	Check and correct address errors in the program. Check the specifications.	Clearing procedure
		P
		Brightness
		Н

710 P	ROGRAM END NOT FOUND	1 1 /
Cause	"EOR" has been read in during tape or memory mode operation.	Type of error
		В
		Stopped status
		J
Action	Include M02 or M30 at the end of the program. Include M99 at the end of the subprogram.	Clearing procedure
		Р
		Brightness
		Н

711 ILLEGAL O, N NUMBER	(, ,)
Cause Program number 0 and/or sequence number 0 has been set.	Type of error
individual de la seconda de la	В
	Stopped status
	J
O to 9999, and for a sequence num-	Clearing procedure
ber from 0 to 99999.	Р
	Brightnes
	Н

715 M	ISSING CENTER (NO DATA)	L v 1 /
Cause	Because of address data errors, the center of the arc cannot be determined during radius-disignated arc	Type of error
		В
	interpolation.	Stopped status
		J
Action	Check the address data in the program.	Clearing procedure
		P
		Brightness
		н

Cause	The designated travel distance data is in excess of 231.	Type of error
		В
		Stopped status
		J
Action	Recheck the designated axis address.	Clearing procedure
- 3		Р
		Brightnes
		н

716	V/	ARI PITCH THRO OPT NOT PRESENT	(, ,)
Cause		A variable lead thread cutting com- mand is designated although the	Type of error
		control does not support the varia-	В
	ble lead thread cutting specification.	Stopped status	
			J
Action	n	Check the specifications.	Clearing procedure
		THE RESIDENCE OF THE PARTY OF T	Р
			Brightness
			н

713 FI	EEDRATE ZERO	(\cdot,\cdot)
Cause	The leedrate is unset.	Type of error
	Descriptions	В
		Stopped status
		J
Action	Set an F command and designate a feedrate.	Clearing procedure
	lebulate.	Р
		Brightness
		н

717 II	LEGAL LEAD (THREAD)	(, ,)
Cause	The designated thread lead is incorrect in the threading process data.	Type of error
	Er Stoo in Deine tragii afu en L	В
		Stopped status
		J
Action	Correct the thread lead data in the threading process data.	Clearing procedure
		Р
		Brightness
		н

714 DI	FFERENT CENTER TOO LARGE	(,,)
Cause	The starting point, ending point, and/or center of the arc are wrong.	Type of error
		В
1		Stopped status
		J
Action	Check the address data of the start- ing point, ending point, and center of the arc. Check the direction (+, -) of the address data.	Clearing procedure
7.4		Р
		Brightness
		н

718 G	16-G18 COM, IN NOSE-R COMP.	(\cdot , \cdot)
Cause	A plane selection G code (G17, G18, G19) is designated in the tool dia-	Type of error
176	meter offset command or nose-R	В
	offset command (G41, G42, G48).	Stopped status
		J
Action	Set a plane select command after canceling the tool diameter offset command and the nose-R offset command (after commanding G40).	Clearing procedure
		Р
		Brightness
		н

719 IL	LEGAL G18-G19 COMMAND	(, ,)
Cause	Mismatch between the arc com- mand axis and the selected plane.	Type of error
		В
		Stopped status
		J
Action	Set correct plane-selection data and correct arc-drawing data.	Clearing procedure
		P
		Brightness
		Н

720 NOT	FOUND AUTO CORNI	ER OVERRIDE (, ,)
Cause		Type of error
		В
		Stopped status
		J
Action		Clearing procedure
		Р
		Brightness
		н.

721 IL	LEGAL 2-ND MISCELLAN. CODE	(, ,)
Cause	The No. 2 auxillary function address set in the program is different from	Type of error
	the parameter-set address.	В
		Stopped eletus
	of the same of the same of	J
Action	Check and correct the No. 2 auxiliary function address set in the program.	Clearing procedure P
		Brightness
		Н

722 11	LEGAL AXIS DESIGNATED IN G98	(\cdot , \cdot)
Cause	ing the constant peripheral velocity control.	Type of error
		В
		Stopped status
		J
Action	Recheck the program to see if the parameter-set address of the constant peripheral velocity control axis is correct.	Clearing procedure
		Р
		Brightness
		н

723	NOSE-R COMPENSATION IN G02/03	(, ,)
Cause	A offset command (G40, G41, G42, or G46) is designated in the circular	Type of error
	interpolation mode (G02, G03).	В
		Stopped etatus
		J
Action	Include linear-interpolation com- mand code G01 or rapid-feed com- mand code G00 in the offset command block or the cancel block, respectively. Modal interpolation will	Clearing procedure
		P
		Brightness
	then change over to linear interpo- lation.	н

724 N	O INTERSECTION	()
Cause	Calculation of the crossing-point off- set vector failed during execution of	Type of error
	the tool diameter offset command or	В
	the nose-R offset command (G41, G42, G46).	Stopped status
		J
Action	Recheck the program.	Clearing procedure
	-1111	Р
	PROPERTY AND THE PARTY AND THE	Brightness
	Charles from September 2445 and 10	Н

Cause	An Interference error occurred during the execution of the tool dia-	Type of error
	meter offset command or nose-R	В
	offset command, (G41, G42, G46) function.	Stopped status
	Ha. I	J
Action	Recheck the program.	Clearing
		Р
- 0		Brightnes
		Н

726 C	ANNED CYCLE IN NOSE-R COMP.	(55)
Cause A fixed-cycle command is designated during the diameter offset mode.		Type of error
	В	
		Stopped etatus
		J
Action	Include diameter offset cancel code G40 in the program since the dia- meter offset mode can only be used	Clearing procedure
		P
during execution of the fixed-cycle command.	Brightness	
		Н

727 1	LEGAL NOSE-R COMP. DIRECTION	, ,)
Cause	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Type of error
		В
		Stopped
		J
Action	Change the move vector to one that make the offset direction constant. Replace the tool with one that has a different tip number.	Clearing procedure
		P
		Brightness
		н

728	REVERSE NOSE-A COMP. DIRECTION	
Cause	T 41 1 14-1046)	Type of error
		В
		Stopped
		U) J
Action	Change the command to a G-code command (G00, G28, G30,	Clearing procedure
	G33, or G53) that permits reversal of the offset direction.	Р
	 Replace the tool with one that has a different tip number. 	Brightnes
	Set the G46 reversal error preven- tion parameter to ON.	Н

	The tool point is illegal (other than 1	Type of error
	- 8) in the nose-R compensation mode G48.	В
	mode G46.	Stopped elatus
	IIO III	J
Action Correct the tip number.	Clearing procedure	
	11111	P
		Brightness
		H

730 IL	LEGAL OFFSET No.	(, ,)
Cause	When offset command (G41, G42 or G48) was set, the offset number	Type of error
	was 0 (TD0) or larger than the maxi-	В
	mum available value.	Stopped
		J
Action	Append an offset number command to the offset command block. Check the maximum available number of offset numbers, and	Clearing procedure
		Р
		Brightness
	change the offset number to an available one.	Н

731 D	R CANNED CYCLE OPT NOT PRESENT	(,,)
	A fixed cycle command is designa-	Type of error
	Geo specification is not supported.	В
	Stopped status	
		J
Action	Check the specifications. Correct the program.	Clearing procedure
		Р
		Brightness
		Н

732 T	APPING SPEED DATA NOT FOUND	<u> </u>
Cause	The spindle speed is not designated when a fixed drilling cycle is designated	Type of error
	nated.	В
	Varian.	Stopped
		J
Action	During setting of fixed-cycle hole- drilling commands (G84, G88), also set a spindle speed command (S).	Clearing
		P
		Brightness
		Н

733 ILLEGAL SYNCH. TAPPING CYCLE Cause Connection with the spindle unit is	Type of error
not made.	В
	Stopped
	J
Action • Check for correct connection to the spindle unit. • Check the presence/absence of a spindle encoder.	Clearing procedure
	P
	Brightnes
	Н

734 T	HREAD PITCH NOT FOUND	(, ,)
Cause	in the fixed tapping cycle, there is no designation for pitch or number	Type of error
	of threads.	B
		Stopped status
		J
Action	Using an F or E command, designate a pitch or a number of threads per inch.	Clearing procedure
		Р
		Brightness
		н

735 11	LEGAL THREAD PITCH	(, ,)
Cause	In the fixed tapping cycle, designa- tion for the pitch or the number of	Type of error
	thread is incorrect.	В
		Stopped status
		J
Action	Check the pitch or the number of threads per inch.	Clearing procedure
		P
		Brightness
		Н

736 IL	LEGAL TAPER LENGTH	(, ,)
Cause	In the turning cycle, designation, for the taper length is incorrect.	Type of error
	W W W W W W W W W W W W W W W W W W W	В
		Stopped status
		J
Action	Set the value of R for the turning cycle so that the travel of the axis is not exceeded.	Clearing procedure
		Р
		Brightness
	THE REAL PROPERTY.	H

737	ILLEGAL CHAMFERING (- · ·)
Cause In the thread cutting cycle, designation for chamfering is incorrect.	In the thread cutting cycle, designa-	Type of error
	В	
	The same of the same of	Stopped status
	-	J
Action	Set chamfering data that ensures termination of the operation of the	Clearing procedure
	tool within the cycle time.	Р
		Brightness
	> = -	Н

738 1	LLEGAL G-CODE DATA	()
Cause	The following command is present in the subprogram called by a	Type of error
	composite-type fixed-cycle I: — Reference point return command	В
	(G27, G28, G30) — Thread cutting (G33) — Fixed cycle	Stopped status
	- Skip function (G31)	J
Action	Delete the following G-codes from the subprograms that are called	Clearing procedure
	up by composite-type fixed-cycle I codes G70 through G73: G27, G28, G30, G31, G33	P
	Fixed-cycle G-codes Normally, this alarm is not output.	Brightness
	If this alarm is output, data must be deleted from the entire system area.	н

739 B	LOCK NUMBER EXCEED	()
Cause	The number of blocks in the shape program of the composite-type	Type of error
	fixed-cycle I exceeds 50 blocks.	В
		Stopped status
		J
Action	Reduce below 50 the number of blocks in the shape programs called up by composite-type fixed-cycle I codes G70 through G73.	Clearing procedure
		P
		Brightness
	and one a state of the state of	Н

740 IL	LEGAL SHAPE DESIGNATED	(1,1)
Cause	The shape program in the composite-type fixed-cycle I (G70 ~	Type of error
	G73) is not the shape for correct	В
	cutting.	Stopped status
		J
Action	Recheck the shape program speci- fied by composite-type fixed-cycle I: (G70 through G73)	Clearing procedure
		Р
		Brightness
		Н

741 IL	LEGAL DATA INPUT	(,,)
Cause	The command in the composite- type fixed-cycle (G70 - G76) is not	Type of error
	correct	В
		Stopped status
		J
Action	Recheck the command data of composite-type fixed-cycle (G70 through G76).	Clearing procedure
		Р
		Brightness
		Н

745	NOT FOUND ADDR. CHANGE OPTION	(, ,)
Caus	A sequence number or block num- ber not existing in the program has	Type of error
	been designated and search start	B
34000	for restart has been activated.	Stopped status
		J
Action	After checking the program, reset restart data and activate the search start for restart.	Clearing procedure
		Р
		Brightness
		Н

742 S	UB PROGRAM NESTING OVER	(, ,)
Cause	The number of times of sequential subprogram call from subprograms	Type of error
	has exceeded 15.	В
		Stopped status
		J
Action	Check the actual number of times of subprogram call, and correct the program so that the value does not exceed 15.	Clearing procedure
		Р
		Brightness
		н

746	ABSOLUTE INPUT REQUIRED (G36)	(, ,)
Caus	Incremental data has been set as target data in the block of G36.	Type of error
		B
		Stopped
		J
Actio	Review the axis addresses within G36.	Clearing procedure
		Р
		Brightness
		н

743	DESIGNA	TED SNo. NOT FOUND	(\cdot , \cdot)
Caus	The s	The sequence number that was designated using GOTO during exit	Type of error
	from	a called subprogram has been	В
	found	found to be a nonexistent sequence number.	Stopped status
			J
Action		Include the sequence number in a suitable block.	Clearing procedure
	Guilla		Р
			Brightness
			н

747	NO SECOND OPERATION	(, ,)
Caus	The specifications of G109, G110, G111, and G112 remain unset.	Type of error
		В
		Stopped status
		J
Actio	n	Clearing procedure
		P
		Brightness
		Н

744 N	O DESIGNATED PROGRAM	(,)
Cause	A called subprogram has been found to be an unregistered one.	Type of error
	toning to be all plinedistered over	B
		Stopped status
		J
Action	Register the subprogram.	Clearing
		Р
		Brightnes
		Н

748 N Cause	A move command other than those used for returning axes to reference points was set for an axis that has not been returned to such points.	Type of
		В
		Stopped
		J
Action	Carry out a manual reference-point return operation.	Clearing procedure
	vatarri oporano	Р
		Brightness
		Н

Cause	An axis exists that has not returned to its home position when home- position check command G27 was	Type of error
		В
	executed.	Stopped status
	·	J
Action	Recheck the program.	Clearing procedure
		Р
		Brightness
		н

753	ILLEGAL G10 L NUMBER	()
Caus	A wrong L-address number was set during setting of G10.	Type of error
	adming setting of and	
		Stopped etatus_
		J
Action	Check the L-address number and change it to the correct number.	Clearing procedure
		Р
		Brightness
		Н

750 T	APE I/O ERROR	(, ,)
Cause	An error has occurred in the tape reader.	Type of error
	100001.	В
		Stopped status
		J
Action		Clearing procedure
		Р
		Brightness
		Н

754 1	LLEGAL G10 CORRECTION No.	(, ,)
Cause	An offset number not allowable for the machine specifications was set	Type of error
	during setting of G10.	В
		Stopped status
		J
Action	After checking the maximum allowable number of offset numbers, change the number of address P to an allowable number.	Clearing procedure
		Р
		Brightness
		Н

751 F	LE VO ERROR	()
Cause	Reading of the machining program files failed.	Type of error
	lies igned.	В
		Stopped status
	9	J
Action		Clearing procedure
		P
		Brightness
		Н

755	NO DIRECTIVE FOR NEXT MOVE R/C	(-,-,-)
Cause	A non-move command has been designated for the block immedia-	Type of error
1	tely succeeding the corner R/C	В
	command.	6topped status
-		J
Action	Change the block that immediately succeeds the corner R/C command	Clearing procedure
- 11	to a block of move commands.	Р
40		Brightness
	The second second second	н

752 C	ANNED CYCLE PROGRAM ERROR	(, ,)
	The shape definition program for fixed-cycle operation includes G27, G28, G30, G31, G32, and fixid-cycle G-codes.	Type of error
		В
		Stopped status
		J
Action		Clearing procedure
		P
	`	Brightness
		Н

Cause	The travel distance is smaller than the length of designated corner R/C.	Type of error
		B
		Stopped status
		J
Action	Reduce the length of corner R/C below the travel distance.	Clearing procedure
		Р
		Brightness
		н

757 n	ISUFF. NEXT MOVE DISTANCE R/C	(, ,)
Cause	The travel distance specified in the next block is smaller than the	Type of error
	length of designated corner R/C.	В
		Stopped status
•		J
Action	Reduce the length of corner R/C below the travel distance specified in the next block.	Clearing procedure
		Р
		Brightness
		н

761 S	KIP SPEED ZERO	(\cdot , \cdot)
Cause	The skip speed is 0.	Type of error
		В
		Stopped statue
		J
Action	Set the skip speed to a value other than 0.	Clearing procedure
	B.152.1 G.	P
		Brightness
		Н

758	NR-R/C DESIGNATED IN GO, THREAD	(, ,)
Cause	The block corner R/C command or athe next block is in the G00 mode	Type of error
	or the thread cutting mode.	В
		Stopped status
		J
Action	Recheck the program.	Clearing procedure
		Р
		Brightness
		Н

762	SKIP COMMAND IN CORRECTING DIA)
Cause	A skip command coexists with the diameter offset command.	Type of error
		В
		Stopped status
		J
Actio	Set diameter offset cancel code (G40), or delete the skip command.	Clearing procedure
	(G40), or delete the skip command.	Р
		Brightness
		Н

759	G27, M COMMANDS SAME BLOCK	(\ldots)
Cause	M-code-only command are included in the command block of G27.	Type of error
	III die commune proces of annual	В
		Stopped status
		J
Action	M-code-only commands cannot coexist with G27 command blocks. Divide each of G27 commands and M-code-only commands into seperate blocks.	Clearing procedure
		Р
		Brightness
		Н

763	MILLING IMPOSSIBLE	(,,)
Caus	The specification of G12.1 remains unset.	Type of error
	811001.	В
		Stopped status
		J
Action		Clearing procedure
		Р
		Brightnes
		Н

760	G29, M COMMANDS SAME BLOCK	(,,)
	Cause M-code-only command are included in the command block of G29.	Type of error
		В
		Stopped status
		J
Action	M-code-only commands cannot coexist with G29 command blocks. Divide each of G29 commands and M-code-only commands into separate blocks.	Clearing procedure
		P
		Brightness
		Н

Cause	A G-code not usable for milling has been designated during the milling mode.	Type of error
		В
		Stopped status
		J
Action		Clearing procedure
		Р
ti.		Brightness
		H

767 AXIS ZERO RETURN NOT COMPLETED	(, ,)
Cause An axis remaining unreturned to its zero-point has been designated	Type of error
during the milling mode.	В
	Stopped status
	J
Action	Clearing procedure
	P
	Brightnes
	Н,
768 ILLEGAL MODAL	(, ,)
Cause The milling mode has been selected during nose-R offsetting or periphe-	Type of error
ral speed constant control.	В
	Stopped status
31131(11 - 12 - 12 - 12 - 12 - 12 - 12 - 12	J
Action	Clearing procedure
	P
The same of the sa	Display

Cause	An unavailable corner R/C has been selected during the milling mode.	Type of error
	¥	В
	9-1-1-1-1-1	Stopped status
		J
Action		Clearing procedure
		P
		Brightness
		Н

770	WORKPIECE RADIUS NOT INPUT (G16)	(, ,)
Cause	A plane without a cylindrical radius has been selected using G16 during	Type of error
	the milling mode.	В
		Stopped status
		J
Action		Clearing procedure
		Р
		Brightness
		Н

771	LOOK AHEAD BUFFER INSUFFICIENT	(,,)
Cause	The block to be pre-read for nose-R offset vector creation is in excess of	Type of error
	the capacity of the special buffer for	В
	such blocks.	Stopped status
		J
Action		Clearing procedure
		Р
		Brightness
		ī H

772 E	RROR IN LOOK AHEAD BLOCK	(, ,)
Cause	The block that has been pre-read for nose-R offset vector creation	Type of error
included the factor of the alarm	included the factor of the alarm.	В
		Stopped status
	The second of the second	J
Action	Recheck the program.	Clearing
		Р
		Brightness
		Н

773 1	LEGAL YAXIS DATA	(, ,)
Cause	The Y-axis data that has been designated in the G19 plane selection	Typs of error
100	code (available only for dummy Y- axls specifications) during the EIA	В
	milling mode is in excess of the housing diameter that has been set	Stopped statue
gnê -	using parameter B65 (for HD #2, parameter G65).	J
Action	########	Clearing procedure
	The second of the second	Р
	Committee of the Commit	Brightness
	A	н

801 NO	DESIGNATED PROGRAM (W	No., ,)
Cause	The MAZATROL machining program corresponding to the designated	Type of error
	work number does not exist in the	В
	memory.	Stopped status
		L
Action	Check if the work number is wrong and designate the correct one, or	Clearing procedure
	load the machining program to be	S
	executed.	Brightness
		N

802 D	ATA NOT FOUND	(WNo., ,)
Cause	(1) An attempt has been made to execute the program being edi-	Type of error
	ted or being entered from an external input unit.	В
	(2) The program has entered in ar abnormal condition because of	a status
	possible reduction in the backubattery voltage.	IP L
Action	(1) Execute the program only after completion of its editing or enti-	
	(2) Reload the machining program	
	to be executed.	Brightness
	And the second second second	N

803	DATA NOT FOUND (WN	o.,PNo.,)
Caus	The designated process number does not exist in the MAZATROL	Type of error
	machining program corresponding	В
	to the previously designated work number.	Stopped
		L
Action	Check if the process number is wrong and designate the correct	Clearing procedure
	one, or load the machining program	S
	to be executed.	Brightness
		N

Cause	Although the machining process corresponding to the previously	Type of error
	designated process number exists, the designated machining type (R	В
	for rough-machining, or F for finish- machining) is not registered for that	Stopped status
	process.	L
Action	Check if the machining type is wrong and designate the correct one, or load the machining program to be executed.	Clearing procedure
		S
		Brightness
		N

805 II	LEGAL MAZATROL DATA (WNo., ,)
Cause	The MAZATROL machining program of the designated work number car	
not be executed because structu errors exist in that program.	Stopped status	
		L
Action	Reload the machining program to be executed.	Clearing
	•	S
		Brightness
		N

806	ILLEGAL	PROCESS (WNo	.,PNo.,)
Cause		rocess data not acceptable for e machine specifications exists	Type of error
	in e: (2) S: in	the program you have made in attempt to execute. EP or TRS process data exists the system memory despite	В
	h	e fact that the program you ave made an attempt to exe- ute is not a COMPLEX	Stopped status
	(3) Ti	rogram. he TPC data does not match to se process you have made an stempt to execute.	L
Actio	(')	elete process data not accepta- le for the machine specifi-	Clearing procedure
	C	ations. elete the SEP or TRS process	s
	(3) D	ata. elete the TPC data, and then	Brightness
	CI	reale correct TPC data.	N

Cause	Data Items remaining blank exist in	Type of error
	the process data items correspon- ding to the process you have made	B Stopped status
	an attempt to execute.	
	THE THREE PURCHASE STREET	L
Action	Set data in all blank data items.	Clearing procedure
		S
		Brightness
		N

		lo.,PNo.,)
Cause	Data out of the allowable setting range exists in the process data	Type of error
	corresponding to the process you	В
	have made an attempt to execute.	Stopped status
		L
Action	Delete unallowable data, and then set correct data.	Clearing procedure
		S
		Brightness
		N

Cause	Sequence data corresponding to the	Type of
	process you have made an attempt	ептог
	to execute does not match to the	В
-	process data.	Stopped status
	\$69 to 12 the 2 - 12 the 12 th	L
Action	Delete the existing sequence data, and then set correct sequence data.	Clearing procedure
		S
		Brightness
		N

810 SEQUENCE DATA NOT FOUND (WNo., PNo.,)		
Cause	No sequence data exists for the process you have made an attempt	Type of error
	to execute.	В
		Stopped status
		L
Action	Set sequence data.	Clearing procedure
		S
		Brightness
		N

Cause	The data	num for t	ber o	f line oces	s of a	have	nce mad	No.,PNo., Type of error
	of a The	pred	sterm sterm	ined	num	per o	cess flines flines	
	COMO	MTR	BAR	CPY	CNR	EDG	THA	
	0	1-25	1-25	1-25	1	1	1-25	
	GRV	М	MES	MMS	MNP	MARP	DAL	В
	1	۰	1	1	0- Free	0- Pres	1	
	DV	MDA	MTP	ROS	MGV	LET	RGT	
	1	1-25	1~25	1-25	1-25	1-25	1-25	i i i
	UT	MCR	END .	TLY	TRS	BEP		Stopped
	1-29	0	0	0	0	0		status
			MTR for each mach numb data "Free a ma lines numb	data ach o in MO inling ber of may " me ximu: is ex per of pro-	are of IN SV (N) opt lines fines mallines	avails and (fill-Gri ion, to so of the ced a that to wab ed, a	DUT. roove he MGV t 1. unless le of ny MAZA-	L
Reduce the number of lines of sequence data.		211	Clearing					
								S
								S Brightness

812	SEQUENCE DATA NOT FOUND (WNo.,	PNo.,SNo.)
Cause	Data items remaining blank exist in the sequence data items cor-	Type of error
-	responding to the process you have	В
Line)	made an attempt to execute.	Stopped atatus
110	(MI) - (MI)	L
Action	Set data in all blank data items.	Clearing procedure
		S
		Brightness
		N

813 (L	LEGAL SEQUENCE DATA (WI	No.,PNo.,SNo.)
Cause	Data out of the allowable setting range exists in the sequence dat	Type of error
. '	corresponding to the process you	
	have made an attempt to execute	Stopped status
		L
Action	Delete unallowable data, and then set correct data.	n Clearing procedure
		S
		Brightness
		N

814	U	NFINISHED TOOL SET (WN	o.,PNo.,)
Caus	0	Tooling data does not exist for the tools that are to be used for the	Type of error
		process you have made an attempt	В
	to execute.	Stopped status	
			L
Action	n	Set tooling data for the tools that are to be used.	Clearing procedure
		ale to be used.	S
			Brightness
			N

815	DESIGNATED TOOL NOT FOUND (WN	o.,PNo.,)
Cause	The tools to be used for the pro- cess you have made an attempt to	Type of error
	execute are not yet registered in tool data.	В
		Stopped status
		L
Action	Check the tool data and register the necessary tools.	Clearing procedure
	Hoodsally tools.	S
	THE SHOOT THE CONTRACT OF	Brightness
		N

816	LLEGAL CUTTING POINT (WN	o.,PNo.,)
Cause	The infeed point specified by the process data of the process (BAR,	Type of error
	CPY) you have made an attempt to	В
	execute is outside the profile of the workpiece (approximate workpiece	Stopped status
	shape specified by common data).	L
Action	Move the infeed point into the pro- file of the workpiece.	Clearing procedure
		S
		Brightness
		N

817 IL	LEGAL CUTTING START POINT (WN	o.,PNo.,)
Cause	The relative position of the starting or ending point specified by the sequence data with respect to the infeed point specified by the pro-	Type of error
		В
	cess data of the process (BAR, CPY) you have made an attempt to	Stopped status
	execute, is not appropriate.	L
Action	Change the position of the starting or ending point of the sequence data, or change the position of the infeed point.	Clearing procedure
		S
		Brightness
		N

Cause	The starting or ending point speci- fied by the sequence data of the process you have made an attempt	Type of error
		В
	to execute is outside the profile of the workpiece (approximate work- piece shape specified by common	Stopped status
	data).	L
Action	Move the starting or ending point into the profile of the workplece.	Clearing procedure
		S
	man management	Brightness
		N

819 C	UTTING DIRECTION NOT DEFINED (WNo.,I	_
Cause	Sequence data exists that does not allow the direction of machining (forward or backward) to be determined from the sequence data and the	Type of error
		В
	position of the infeed point specified by the process (BAR, CPY) data you	Stopped status
	have made an attempt to execute.	L
Action	Change the data of the starting or ending point in the sequence data.	Clearing procedure
		S
	·	Brightness
		N

820 R	EVERSE SHAPE CONTOUR (WNo.,	PNo.,SNo.)
Cause	Part of the workplece shape defined by the sequence data of the pro-	Type of error
	cess (BAR, CPY) you have made an attempt to execute is opposite in	В
	direction of machining with respect to the reference axis movement	Slopped status
	direction.	L
Action	Correct the position of the starting or ending point specified in the sequence data.	Clearing procedure
		S
		Brightness
		N

821 D	OUBLE SHAPE CONTOUR (WNo.,	PNo.,SNo.)
Cause	The workpiece shape defined by the sequence data of the process (BAR,	Type of error
	CPY) you have made an attempt to	В
	execute has overlaps in direction of machining.	Stopped status
Action	Correct the position of the starting or ending point specified in the sequence data.	Clearing procedure
		S
14		Brightness
		N

822	ILLEGAL RADIUS (WNo.,F	No.,SNo.)
Caus	Arc-drawing data in the sequence data of the process (BAR, CPY, LCT,	Type of error
	RGT, LFT, MNP, MMP) you have made an attempt to execute is	В
	wrong. That is, the relationship between the	Stopped status
	starting point, ending point, and radius of the arc is incorrect.	L
Action	Correct the starting-point data, ending-point data, or radius data in	Clearing procedure
	the sequence data.	S
		Brightness
	The second second second	N

Cause	In the sequence data of the process	
	(BAR, CPY, CNR, GRV) you have	error
Ė	made an attempt to execute, there are the following errors related to the designated corner-C drawing data: <bar, cnr="" cpy,=""></bar,>	В
	The length of the block (or arc) pre- sent in front or rear of comer C you have made an attempt to add is	Stopped status
	smaller than that of corner C. <grv> Added corner C is outside the profile of the workpiece.</grv>	L
Action	Correct either the length of corner C or the sequence data set in front or rear of the corner.	Clearing procedure
		S
		Brightness
	The second second	N

824 E	KCEEDS NUMBER OF SHAPES (WN	o.,PNo.,)
Cause	1 Shape data for the process (BAR, CPY, LCT, RGT, LFT) you have	Type of error
	made an attempt to execute or shape of workpiece defined in the MTR process is too complicated to be processed.	В
		Stopped status
Action	Simplify the shape of the workplece or the shape defined by the sequence data.	Clearing procedure
		S
10/TO		Brightness
		N

825 E	XCEEDS NUMBER OF VALLEY SHAPES (WN	o.,PNo.,
Cause	The total number of valleys in the workplece shape defined by the sequence data of the process (BAR)	Type of error
		В
	you have made an attempt to execute is in excess of 10, the maxi-	Stopped status
	mum allowable number.	
Action	Simplify the shape defined by the sequence data.	Clearing procedure
		S
		Brightness
		N

826 C	OMMON DATA NOT FOUND	WNo., ,)
Cause	Common process data does not exist in the beginning part of the	Type of error
	data of the designated work	В
	number.	Stopped status
	And	L
Action	Load or set the program once again.	Clearing procedure
		S
		Brightness
		N

827 IL	LEGAL COMMON DATA (RADIAL) (WNo	
Cause	The relationship between "OD- MAX" and "IN-MIN" in the common	Type of error
	process data of the designated work number is not as follows:	В
(Maximum allowable (Minimum allowable outside diameter > Inside diameter ≥0 of workpiece)		Stopped status
		L
Action	Correct "OD-MAX" or "IN-MIN".	Clearing procedure
	THE PARTY IN THE LAC	S
		Brightness
	The second second second second second	N

828 IL	LEGAL COMMON DATA (AXIAL) (WNG	.,PNo.,)
Cause The relationship between the work- piece length (LENGTH), workpiece		Type of error
edge protrusion length (WORK FACE), and product length (FIN-	В	
	LENGTH) in the common process data of the designated work number is not as follows:	Stopped etatus
(LENGTH)≥(WORK FACE)+(FIN-LENGTH)>0 (WORK FACE), (FIN-LENGTH)>0		L
Action	Correct either "LENGTH", "WORK FACE", or "FIN-LENGTH".	Clearing procedure
PACE, OF PIN-LENGTH.	S	
	Brightness	
		N

829 N	IATERIAL SHAPE CROSSING (WNo.,	PNo.,SNo.)
Cause	There is a data overlap between the inside diameter side (IN) and out-	Type of error
	side diameter side (OUT) of the	8
	workpiece shape which has been designated for the MTR process.	Stopped etatus
		L
Action	Change the IN or OUT workpiece shape data.	Clearing procedure
		8
		Brightness
		N

830 11	LEGAL DATA (TLY PROCESS) (WN	io.,PNo.,)
Cause	Either tool No. or pocket numbers are missing in the TLY process	Type of error
	dala.	В
		Stopped
		L
Action	Set both a tool No. and a pocket number in each data item.	Clearing procedure
		8
		Brightness
		N

831 E	XCESSIVE FINISH ALLOWANCE	()
Cause	The area to be rough-cut does not exist since the designated finishing allowance is too large for the shape defined by the sequence data.	Type of error
		B
		Stopped status
	A Share and a sure of the same	L
Action	Either change the finishing allowance or cancel rough-cutting.	Clearing procedure S
		Brightness
	III and willes to see the second	N

832 I	LEGAL SHAPE DESIGNATED (CNR) (WNo.,	
Cause	In the CNR process data, the relationship between the starting point (SPT-X/Z) and the ending point (EPT-X/Z) that are defined in the sequence data is wrong.	Type of error
		В
		Stopped status
		L
Action	Correct the coordinates of the star- ting or ending point.	Clearing procedure
	ang or onemy point.	S_
	Brightness	
		N

Cause	In the EDG process data, the rela- tionship between the starting point	Type of error
	and the ending point that are defi-	В
	ned in the sequence data is wrong.	Stopped status
		L
Action	Correct the coordinates of the star- ting or ending point.	Clearing procedure
		S
		Brightnes

837	LLEGAL SHAPE EXCEEDS MTRL SIZE (WNo.,	PNo.,SNo.)
Cause	in the GRV process, the second and subsequent grooves of all those	Type of error
	which have been designated for the	В
	GRV process are outside the work- piece profile defined by common	Stopped status
	data.	L
Action	Reduce the number of grooves.	Clearing procedure
		S
		Brightness
		N

Cause	In the THR process data, the designated number of times of cutting	Type of error
	of #0, #3 thread type is less than	В
	2.	Stopped status
Action	Change the number of times of cutting to 3 or more, or change the thread type.	Clearing procedure
		S
		Brightness
البيتا		N.

Cause	The width of the designated tool	Type of
	does not match to the groove shape specified in the GRV process data.	error B
		Stopped
		L
Action	Designate some other tool, or change the width of the designated	Clearing
	tool.	S
		Brightnes
	12.	N

Cause	In the THR process data, the calculated distance of threading accelera-	Type of error
	tion is in excess of the clamp data.	В
54		Stopped status
	A STATE OF THE STA	Ļ
Action	After checking for safety, change the parameter.	Clearing procedure
		S
		Brightness
		N

839 IL	LEGAL OVERLAP (GRV PROCESS)	(, ,)
Cause	In the GRV process data, the parameter-set amount of grooving overlap is larger than the width of the designated tool.	Type of error
Section 1		В
illen.		Stopped status
4 4		L
Action	Either designate some other tool, change the width of the designated tool, or change the parameter setting.	Clearing procedure
100		S
4		Brightness
		N

Cause	In the GRV process data, the rela- tionship between the starting point	Type of error
	(SPTX/Z) and the ending point	В
	(FPT-X/Z) that are defined in the sequence data is wrong.	Stopped status
		L
Action	Correct the coordinates of the star- ting or ending point.	Clearing procedure
		S
		Brightness
		N

840 IL	LEGAL DRILLING DIRECTION (WNo.,	PNo.,SNo.)
Cause	In the hole-machining process (DRL, TAP) data, the relationship	Type of error
1	between the starting point (SPT-X/Z)	В
	and the ending point (FPT-X/Z) that are defined in the sequence data is	Stopped status
	wrong.	L
Action		Clearing procedure
	ting or ending point.	S
		Brightness
		· N

841 IL	LEGAL G-CODE INPUT	(, ,)
Cause	Unavailable G-code commands have been designated for the	Type of error
	manual operation process (MNP,	В
	MMP).	Stopped status
		L
Action	Change the G-code commands to correct ones.	Clearing procedure
		S
		Brightnes
		N

844 li	LLEGAL FEEDRATE DATA (WNo.,	PNo.,SNo.)
Cause	The synchronous or asynchronous feed data designated in the manual	Type of error
	operation process (MNP, MMP) data	В
	is not appropriate for the G-code command set in the sequence data.	Stopped status
		L
Action	Change the synchronous or asynch- ronous feed data.	Clearing procedure
	Andreas and Anna and Anna	S
		Brightness
		N

842	ILLEGAL AXIS INPUT (WNo.,F	No.,SNo.)
Cause	An axis that is illegal for the G-code command in the sequence data has	Type of error
	been designated for the manual operation process (MNP, MMP).	В
	Or the same axis is designated more than 2 in 1 sequence data of the manual operation process (MNP,	Stopped status
	MMP).	L
Action	Delete all move commands related to the illegal axis.	Clearing procedure
	and moger and	S
		Brightness
		N

845	CORNER (RA	DESIGNATED OVERLAP (WNo., PNo., SNo.)
Cause		equence data of the process Type of error error
	ners (R or C) have been designated for portions that are identical in shape.	or C) have been designated B
		ons that are identical in Stopped status
		L
Action		he designated corner por- d delete one of the corners.
		S
		Brightness
		N

843 M	ILLING TOOL DIA NOT FOUND	
Cause	(1) The diameter of the tool to be used during the process (DRL,	Type of error
	TAP, MMP, MDR, MTP, BOR, MGV, LCT, RGT, LFT) is unset or is set to 0.	В
	(2) The diameter of the sensor tool to be used during the measure-	Stopped status
	ment process (MES) is unset or is set to 0.	L
	Set the correct diameter of the tool or sensor tool you want to use.	Clearing procedure
	or serisor toor you want to use.	S
		Brightness
		N

646 ILLEGAL FINISHING ALLOWANCE (WN Cause in the "#0, #0" type of THR (threading) process data, the follo-	Type of error
wing relationship exists: (Finishing allowance) > (First depth-of-cut/4) Calculated from the height (HGT) and the	В
number of times (NUMBER) that are apecified by the	Stopped status
process data. Specified by parameter U39.	L
Action Change either the thread height or the setting of parameter U39.	Clearing procedure
all botting of parameter book	S
	Brightness
	N

847 H	LEGAL ANGLE IN FIRST SEQUENCE (WNo.	PNo.,SNo.)
Cause	Threading is not possible since the relationship between the thread	Type of error
	chape and threading angle that are	8
	defined by the first sequence data of the THR process is incorrect.	Stopped status
		L
Action	Change the threading angle, or change the coordinates of the star-	Clearing procedure
	ting or ending point of the first	S
	sequence.	Brightness
		N

850 A	W) NOITRATION (W	No., ,)
Cause	An attempt has been made to per- form a tool path check during auto-	Type of error
	matic operation despite the fact that	В
	the system does not have an assigned background processing option.	Stopped status
		L
Action	Perform the tool path check only after completion of automatic operation, or assign a background processing option to the system.	Clearing procedure
		S
		Brightness
		N

848 ILLEGAL THREAD ANGLE (WNo., PNo.,)		
Cause	In the THR process data that requires the designating of a threading	Type of error
	angle, "ANG" (threading angle) is	B
	not in the following range. (Tool tip angle) ≤ (Threading angle)	Stopped status
		La La
Action	Change either the threading angle, the type of tool to be used, or tool data.	Clearing
		S
		Brightness
		N

851 L	AYOUT UNABLE (WN	o.,PNo.,)
Cause	Because of lack of data, automatic creation of layout data is not possi-	Type of error
	ble and thus the program cannot be	В
	executed.	Stopped status
		L
Action	Check the machining program for tool or SEP/TRS head selection errors.	Clearing procedure
		S
		Brightness
		N

849 IL	LEGAL THREAD HEIGHT (WA	lo.,PNo.,)
Cause	In the THR process data, the rela- tionship between the thread height	Type of error
and the finishing allowance is not: (Finishing allowance) ≤ (Thread height) L Designated in the process data.	В	
	Stopped status	
	Set using parameter U39.	L
Action Change the thread height or the setting of parameter U39.		Clearing procedure
	Southing of permittees.	S
	Brightness	
		N

852 L	AYOUT SIZE EXCEED (M	No., ,)
Cause	Automatic creation of process layout data, although attempted prior to	Type of error
1.110	execution of machining programs, has falled because of lack of an avaliable storage area in the layout	8
		Stopped status
	data storage memory.	L
Action	Delete an unnecessary machining program(s).	Clearing procedure
-7		S
		Brightness
		N

853	INTERSECTION NOT FOUND (WNo.,F	No.,SNo.)
Caus	was attempted because a data item denoting uncalculated crossing-point	Type of error
		В
	data (?) was present in the sequence data of the process, no calculations were obtained since	Stopped status
	there are data disparities.	L
Actio	Correct the sequence data.	Clearing procedure
		S
		Brightness
		N

854	DATA MISSING (INTERSECTION) (WNo.,F	PNo.,SNo.)
Caus	Although crossing-point calculation was attempted because a data item	Type of error
	denoting uncalculated crossing-point	В
	data (?) was present in the sequence data of the process, no calculations were obtained since	Stopped status
	there are lack of datas.	L
Action	Correct the process data or the sequence data.	Clearing procedure
		S
		Brightness
		N

855	INTERSECTION CALCULATE IMPOSS. (WNo.,P	No.,SNo.)
Cause Although crossing-point calculation was attempted because a data item		Type of error
	denoting uncalculated crossing-point data (?) was present in the	В
	sequence data of the process, no calculations were obtained since	Stopped
	there are illegal datas.	L
Action	Correct the process data or the sequence data.	Clearing procedure
	. Bequoinse same	S
		Brightness
		N

856 N	EED TOOL ROTATION DIRECTION	(, ,)
Cause	The rotating direction of the spindle or milling tool cannot be determined	Type of error
	since the "FWD/REV[" data item in "TOOL DATA (2)" which corresponds to the designated tool is left blank.	В
		Stopped status
		L
Action	Set data in "FWD/REVI" or deal- gnate some other tool.	Clearing procedure
		S
		Brightness
		N

Cause The depth of cutting with the milling tool cannot be determined since the "DEP-AMO/DEP-ANG" data item in		Type of error
	В	
	"TOOL DATA (2)" which corresponds to the designated tool is left	Stopped status
	blank.	L
	Set data in "DEP-AMO/DEP-ANG" or designate some other tool.	Clearing procedure
		S
		Brightnes
		N

858 II	LEGAL TPC DATA (V	VNo.,PNo.,)
Cause	Data out of the allowable setting range exists in the TPC data of the	Type of error
	process you have made an attern	
	to execute.	Stopped status
		L.
Action	Correct the data error(s).	Clearing procedure
		S
		Brightness
		N

861 E	XCESSIVE GROOVE WIDTH (WN	o.,PNo.,)
Cause	Machining within the allowable stroke of the dummy Y-axis is not	Type of error
	possible since the groove width (GRV-WID) that has been set for MGV is too large for that tool. (Only for a system that has a dummy Y-axis.)	В
	The allowable stroke of the dummy Y-axis is as follows:	Stopped status
	-(Setting of parameter B65/2) ≤ Allowable stroke ≤ (Setting of parameter B65/2)	L
Action	Designate a tool that has a suffi- ciently large diameter, or reduce the groove width and perform machi- ning within the allowable stroke.	Clearing
		S
		Brightness
		N

862	ILLEGAL Y-AXIS DATA (WA	lo.,PNo.,)
Cause	The Y-coordinate of the program is outside the allowable stroke of the	Type of error
	dummy Y-axis. (Only for a system that has a dummy Y-axis.) The allowable stroke of the dummy	В
	Y-axis is as follows:	Stopped
	- (Setting of parameter B65/2) ≤ Allowable stroke ≤ (Setting of parameter B65/2)	L
Action	Reduce the Y-coordinate below the allowable stroke.	Clearing procedure
		S
	A:	Brightness
		N

880	MACRO PROGRAM NOT FOUND (WN	o.,PNo.,)
Cause	The macroprogram (MAZATROL MACRO) that has been designated	Type of error
	for the MCR process is an unregis-	В
	tered one.	Stopped status
		L
Action	Change or register the name of the macroprogram to be called up.	Clearing procedure
		S
		Brightness
		N

881 IL	LEGAL MACRO G-CODE (WI	lo.,PNo.,
Cause	The macroprogram (MAZATROL MACRO) cannot be executed since	Type of error
	filegal G-codes are included in it.	В
		Stopped status
		L
Action	Change the G-codes.	Clearing procedure
		S
		Brightness
		N

Cause	The macroprogram (MAZATROL MACRO) cannot be executed since	Type of error
	more axes than allowable for the	В
	macroprogram have been designated.	Stopped status
Action	Reduce the number of axes.	Clearing procedure
		S
		Brightnes
		- N

883 1	LLEGAL AXIS INPUT (MACRO) (WN	o.,PNo.,)
Cause	The macroprogram (MAZATROL MACRO) cannot be executed since axis addresses not allowable for the macroprogram have been designated.	Type of error
		В
-		Stopped status
Action	Reduce the number of axis addresses, or change part of the axis	Clearing procedure
	addresses.	S
	176	Brightness
		N

884 F	EEDRATE ZERO (MACRO) (WN	o.,PNo.,)
Cause	The feedrate (F) designated in the macroprogram (MAZATROL	Type of error
	MACRO) is not a positive value.	В
	Transmission of	Stopped status
		L
Action	Change the value of F to a positive one.	Clearing
		S
		Brightnes
		N

888	DDRESS DESIGNATION OVERLAP (WNo	.,PNo.,)
Cause	In two or more places within one block exist in one or more blocks of	Type of error
block the m		В
	the macroprogram (MAZATROL MACRO).	Stopped
	The black had been been been all the	L
Action	Delete one or more of the addresses of the same type.	Clearing procedure
		S
		Brightness
	0 1	N

885 M-CODE OVER (WNo.,PNo.,		YNo.,PNo.,
Cause	More than four M-codes per block are set in the macroprogram	Type of error
	(MAZATROL MACRO).	В
		Stopped
		L
Action	Reduce the number of M-codes below four per block.	Clearing procedure
	Delow lost per block.	S
		Brightness
		N

889 ADDRESS OVER (WNo.,PNo.,		o.,PNo.,)
Cause	A block containing more than 20 addresses exists in the macropro-	Type of error
	gram (MAZATROL MACRO).	В
		Stopped status
		J
Action	Delete the excess number of addresses, or divide the commands into two blocks.	Clearing procedure
		S
		Brightness
		N

886 S	PINDLE ZERO (MACRO) (WN	o.,PNo.,)
Cause	The speed (S) designated in the macroprogram (MAZATROL	Type of error
	MACRO) is not a positive value.	B
		Stopped status
	- 0	L
Action	Change the value of S to a positive one.	Clearing procedure
	One.	S
		Brightness
		N

887 S	PINDLE ZERO (MACRO)	WNo.,PNo.,)
Cause	The peripheral velocity (V) desig ted in the macroprogram (MAZA	
	TROL MACRO) is not a positive value.	В
		Stopped status
		L
Action Change the value of V to a pos	live Clearing procedure	
	one.	S
		Brightness
		N

ause	One or more of the following errors occurred during execution of the macroprogram:	Type of error
Error No.	. Error description	
1	The intermediate code header information is wrong.	
2	The area handled by the interpreter to insuficient.	1
3	The quantities of both arguments existing during macro call from a macro are not the same.	
6	After debugging, the number of arguments described in the program became smaller than that of arguments which were entered.	В
6	After debugging, the number of arguments described in the program became larger than that of arguments which were entered.	
7	The number of times of nesting for macro call is in excess of its maximum allowable number (10).	
B	Array statement error (The array size defined in DIM statement is exceeded)	
9	in COM ≠(i) or COM@(i), the value of i is illegal (the value of i is minus or in excess of the value set in macro control block).	Stopped statús
10	During division, the divisior is 0.	
11	The function (MACSEARCH, SMAC- SEARCH) that returns the code area pointer of the macro has error- returned.	
12	In SCOM#(i) or SCOM@(i), the value of I is illegal (the value of I is minus or excess of the value set in macro control block).	
13	Instruction word error.	32 L
14	The number of machining programs is larger than the value set in the macro control block.	-
15	Unregistered external functions are given.	
17	The stack handled by the interpreter is overflowing or underflowing.	
18	The divisor for calculation of MOD is 0.	
20	The type of arguments for macro call is illegal.	
tion	Correct and re-register the macro-program.	Clearing procedure
		Brightness
		N

Cause	The chape data that has been defi-	Type of
	ned in the sequence data of the	епог
	process (BAR, CPY) cannot be cor-	В
	rectly processed.	Stopped
		L
Action	Change the machining program or tool data to such an extent that no	Clearing procedure
	machining error is likely to occur (say, down to several micrometers). Normal operation may then resume, because this alarm is usually due to	s
	a calculation error. If the situation does not improve even after such changes have been	Brightnes
	made, your MAZAK service repre- sentative should be contacted for assistance.	N
	1	

Cause	The number of axis addresses per block is in excess of the specifications.	Type of error
		В
		Stopped status
		L
Action	Divide the addresses in the alarm block into two groups. Check against the specifications.	Clearing procedure
		S
		Brightnes
		N

902 11	LEGAL AXIS NAME	(, ,)
Cause	The axis address name in the program is different from that which	Type of error
	has been parameter-set.	В
		Stopped status
		L
Action Correct the axis address name the program.	Correct the axis address name in	Clearing procedure
	ato program	S
		Brightness
		N

903	DIMENSION DETECTING ERROR	(, ,)
Cause Axis addresses that cannot be divided in address units have been set.		
	В	
		Stopped status
		L
Action	n Review the program.	Clearing procedure
		S
		Brightness
		N

904 PARITY H ERROR	(,,)
Cause The number of holes per character in the paper tape is even (for EIA codes) or odd (for ISO codes).	Type of error
	В
,	Stopped status
	L
Check the paper tape. Check the tape reader and the tape puncher for normal operation.	Clearing procedure
	S
	Brightness
	N

905 P	ARITY V ERROR	(\cdot , \cdot)
Cause	The number of characters per block on the paper tape is odd.	Type of error
	Off this paper labe is occ.	В
		Stopped
		L
per block on the	Make the number of characters per block on the paper tape even.	Clearing procedure
	· Set the parity-V selection parame-	S
		Brightness
	A	N

906 ILLEGAL ADDRESS ()		
Cause	Addresses not available for the machine specifications have been	Type of error
	set.	В
	The same of the same	Stopped status
		L
Check and correct address error in the program. Check the specifications.	Check and correct address errors	Clearing procedure
		S
	Brightness	
		N

907 11	LEGAL FORMAT	(, ,)
Cause	The programming format is not correct.	Type of error
	Correct.	В
		Stopped
		L
Action	Review the program.	Clearing procedure
		S
		Brightness
		· N

908 11	LEGAL G-CODE	
Cause	G-codes not available for your machine are included.	Type of error
		В
		Stopped status
		L
	Check and correct G-code address errors in the program.	Clearing procedure
	enois in the program.	S Brightness
		N