SIEMENS

SINUMERIK 840C SIMODRIVE 611-D

Diagnostics Guide

09.2001 Edition

SIEMENS

SINUMERIK 840C SIMODRIVE 611-D

Diagnostics Guide

Valid for

Control	Drive
SINUMERIK 840C/CE (Standard/Export version)	SIMODRIVE 611–D
Software Version	Software Version
1.x	
2.x	
3.x	1.x
4.x	2.x
5.x	3.x
6.x	4.x
6.4	5.x

09.2001 Edition

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SINUMERIK[®] documentation

Printing history

Brief details of this edition and previous editions are listed below.

The status of each edition is shown by the code in the "Remarks" column.

Status code in the "Remarks" column:

- A . . . New documentation.
- **B**.... Unrevised reprint with new Order No.
- C Revised edition with new status. If factual changes have been made on the page since the last edition, this is indicated by a new edition coding in the header on that page.

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Other functions not decribed in this documentation might be executable in the control. This does not, however, represent an obligation to supply such functions with a new control or when servicing.

We have checked that the contents of this document correspond to the hardware and software described. Nonetheless, differences might exist and therefore we cannot guarantee that they are completely identical. The information contained in this document is, however, reviewed regularly and any necessary changes will be included in the next edition. We welcome suggestions for improvement.

Subject to change without prior notice.

Preliminary notes

This Guide serves as a reference work. It allows the machine tool user:

- · to assess irregularities during operation at the machine correctly
- to obtain information about the response of the system to the irregularity
- to make use of the options for continuing operation after the irregularity

This description lists the diagnostics options of the PLC and the alarms of the MMC, NCK, servo and drive (SIMODRIVE 611–D) areas.

In the Diagnostics Guide the alarms are sorted in ascending order of alarm numbers. The numbers are not necessarily contiguous.

Safety

Sequence

Scope



Danger

Please assess the condition of your plant carefully against the description of the alarm that has occurred. Eliminate the cause of the alarm and acknowledge it as described. If alarms are ignored, danger to the machine, workpiece, stored settings, and in certain cases, to your health, could result.



Warning

This warning notice means that loss of life, severe personal injury or substantial material damage **can** result if the appropriate precautions are not taken.



Caution

This warning notice (with warning triangle) means that a minor personal injury **can** result if the appropriate precautions are not taken.

Caution

This warning notice (without warning triangle) means that a material damage **can** result if the appropriate precautions are not taken.

Notice

This warning notice means that an undesired event or an undesired state **can** result if the appropriate notices are not observed.

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1 Alarms

1.1 Alarm groups

NC alarms

The alarms are divided into alarm groups.

- General alarms
- Computer link alarms
- Axis-specific alarms
- Spindle-specific alarms
- Channel-specific alarms



At POWER ON RESET (switching on control), all NC alarms are cancelled.





The CANCEL alarms can be deleted in the associated operating area only.



PLC alarms



The PLC alarms are assigned error numbers 6000 to 9999. The alarm text, alarm action and deletion conditions are configured by the machine manufacturer.



MMC alarms



MMC alarms do not interrupt an active NC program. The alarms are acknowledged automatically provided the correct sequence of operations is adhered to or via softkeys.



1.2 Alarm numbers/cancellation of alarms

Alarm number	Kind of alarm
1	General alarms
2 to 15	General alarms
16 to 36	Computer link alarms
43 to 110	General alarms
1000 to 1211 1240 to 1251	Axis-specific alarms
1280 to 1371	Axis-specific alarms
1440 to 1971	Axis-specific alarms
2000 to 2193	General alarms
2250 to 2263	Spindle-specific alarms
2270 to 2273	Spindle-specific alarms
2280 to 2283	Spindle-specific alarms
3000 to 3220	General alarms
4000 to 4299	Cycle alarms
5000 to 5299	
6000 to 9999	PLC error messages or PLC operational messages
10000 to 12031	Axis-specific alarms
20000 to 20309	Spindle-specific alarms
100000 to 169999	MMC alarms
200000 to 209999	PLC dialogs
210000 to 219999	Free area
300000 to 399999	611D alarms

Кеу	Effect of cancelling alarms
Acknowledgement	An active NC program is not aborted but only stopped. After eliminating the error, it is possible to continue execution of the NC pro- gram from the point at which it was stopped.
Reset	Execution of an active NC program is aborted. After eliminating the error, the NC program must be restarted.
POWER ON	Execution of the active NC program is aborted. After eliminating the error, the NC program must be restarted and the reference points must be reapproached. Caution! On switching off the control, the contents of the NCK part program memory are lost.

POWER ON means switching off the control and switching it on again.

Please note the information provided by the machine tool manufacturer.

1.3 Display of the alarms in the alarm line

1.3 Display of the alarms in the alarm line

Messages from the monitoring system are displayed in the alarm line. Existing comments are overwritten by alarm texts. The alarm line is the second display line from the top.

Alarm I	line						Delet	te error	conditior	ו 		
Mach	ine	Parameter	Programm.	Serv		Services		Services Diagnosis		nosis		
								POWER ON				
AUTC	AUTOMATIC Program stop						M. grp. Chann	.: 1 el: 1				
Actual					Distances to Program pointer							
	values		-	go 100.000		%1234		N12	34			
Y			-			L1234 P12		N12	34			
Z		210.643			.000 .000							

There are three types of display representation for alarm messages: Types A, B and C.

Example of display Alarm display in sequence order *representation Type A:*

Machine	Parameter	Programm.		Diagnosis				
10243 ORD 5 X Illegal pulse multiplication								
max. 5 characters for ordinal number The ordinal number shows the order in which the alarms have occurred.				f er (r r	max. 40 charac for explanatory (for single-line a max. 100 chara (for two-line ala	text alarm) cters		
L ma	x. 6 characters	for alarm numb	er					

Example of display Alarm display in block number order representation Type B:

Machine	Parameter Programm. Services Diagnosis						
3000 1 N0045 General programming error							
max. 38 characters for explanatory text (for single-line alarm) E.g.: the error has occurred in block N0045.						xt	

Example of display representation Type C:

Machine	Parameter	Programm.		Services	Diagnosis	
6000 Hydraulic oil min.						
ma:	x. 4 characters	for alarm numb	max. 47 c for explan (for single			

1.4 Display of the alarms as dialog box

The machine tool manufacturer can configure whether the alarm messages are displayed in the alarm line or in a dialog box. MMC messages are displayed as a dialog box.

There are 3 types of dialog box:

Dialog box with empty softkey bar The dialog must be acknowledged from a configured application.

Machine Par	rameter	Programm.			Servio	ces	Dia	gnosis	;			
										12	:17	
JOG	Prog	ram reset							M	lode Than	Gp nel	1 1
Actual value			RE	POS of	fset	Pro	ogram	point	er			
×		0.00		0.0	00	Pí	AR1	Γ				
Y		0.00		0.0	00	%	1	.3			N	0
Ż		0.00	10	0.0	00	L	0	P P	0		21	0 0
Act. value	06001 Da	ta in Sier	nens br	anch c	annot	be s		d		ons	N	Ы
F= 0.00	100%		F =	0.00	1	TD	=			M M	=	
S1= 0	50%	0.00	S 1=	0		Ĥ	=			й	=	
						Gł	funct	ions				
			-				-		1.			

Fig. 1.1 Example 1 dialog box

Machine	Pa	ırameter	Programm.		Servi	ces	Diag	nosis	:		
										12:08	
JOG		Pro	ogram reset						Mo Ch	de Gp annel	1 1
Actual	value	;		RE	POS offset	Pro	gram	point	er		
X Y Z			0.00 0.00 0.00	30	0.000 0.000	Pf %	ART 1			И	0
Act. v	a lue 2	206001 D			0.000 anch cannot	L L be s	0 0 tored	P P		N N N	0 0 0
F=		100%		F=	0.00M		-		1	1 =	
S 1=	0	50%	0.00	S 1=	0	D H	=		1	1 = 1 =	
						Gf	unct i	ons			
•										ОК	

Dialog box with OK softkey

The dialog box can be acknowledged with the OK key.

Fig. 1.2 Example 2 dialog box

Dialog box with OK softkey and HIDE softkey The dialog box can either be acknowledged with the OK key or it can be with the HIDE softkey without being acknowledged.

Machine	Parameter	Programm.		Servi	ces Diagnosi:	s
						12:14
JOG	Prog	ram reset				Mode Gp 1 Channel 1
Actual va	lue		RE	POS offset	Program poin	ter
×		0.00		0.000	PART	
YZ		0.00		0.000	% 13	н 0
2		0.00	0	0.000	L Ø P L Ø P	0 N 0 0 N 0 9 N 0
		_	-	_		Ň Ö
Act. valu	206001 Da	ıta in Sier	iens br	anch cannot	be stored	ons
F= 0.0	30 100 <i>%</i>		F=	0.00M	T = D	M = M =
S 1=	0 50%	0.00	S 1=	0	Ĥ =	M =
					G functions	
					Hide	ОК

Fig. 1.3 Example 3 dialog box

1.5 **Priority of alarms**

Only one alarm can be displayed in the alarm line and the following priorities apply:

Priority range	Alarm type
0 – 100	Power on
101 – 200	Reset
201 – 300	Cancel
301 – 500	Message
301 – 500	PLC alarm
1000	Diagnosis

Within the alarm groups, the priority is in accordance with the alarm number or priority range, i.e. the lowest alarm number/priority range has the highest priority. The alarm priorities can be configured by the machine tool manufacturer.



An arrow on the right in the alarm line indicates that further alarms exist. These alarms are displayed if you select the alarm overview display in the DIAGNOSIS area.

1.5.1 Alarm description

The alarms are described in a uniform style. The column alarm heading boxes show the alarm number, alarm text and the means of cancellation.

Alarm number	Alarm text	Means of cancel.
Scan:	Specifies in which state the alarm occurs.	
Effect:	Specifies the sphere of influence of processing.	
Explanation:	States the reasons for the alarm.	
Remedy:	Instructions for eliminating the alarm state.	

1	Battery: Data	loss at power off!		Acknowledgement key
Scan	POWER ON Cyclic			
Effect	Data is not battery-	backed after power off.		
	During operation: Run-up:	Do not interrupt the production Data has been lost. Obligato	on process. Data will be lost if the ry re-installation is activated.	control is switched off.
Explanation	Backup battery is e	empty.		
Remedy		y when the control is switched st the whole NCK/PLC unit mu		
2	Overtemperat	ure		Acknowledgement key
Scan	POWER ON Cyclic			
Effect	NC program is not	interrupted.	s been triggered because the aml	
Explanation		nterrupted directly. A contact is	e guaranteed, serious damage to s opened on the CSB which the N	
Remedy		level will eliminate the error. hardware damage possible).		
3	Fan failure			Acknowledgement key
Scan	POWER ON Cyclic			
Effect	Fan monitoring is tr	riggered because of incorrect f	an functioning.	
Explanation	Safe functioning of Processing is not in appropriate measure	nterrupted directly. A contact is	e guaranteed, serious damage to s opened on the CSB which the N	
Remedy	Eliminate the fan fa Switch off control (h	ult, e.g. by replacing the fan. hardware damage possible).		
4	System of uni	ts not allowed		POWER ON
Scan	POWER ON			
	After modificati	on of NC machine data		
Effect	Interlocking of			
	 Interlocking of I 	NC START Mode Group Ready		
	 Machining stop 			
Exlanation	selected. Both data	a must use the same system of		
Damashi	lution rotary axis" n	nust be set.	smaller than = $0.5 \cdot 10^{-4}$ degrees	
Remedy	Check and correct	machine data combinations. I	hen cancel the alarm with POWE	R ON.
_				
5	Power failure	protection / data loss		Acknowledgement key
Scan	POWER ON			
Effect	fault.	0	ware could not be executed corre	ectly because of a hardware
Explanation	Obligatory re-instal	lation is activated.		
Remedy	The whole NCK un Eliminate hardware	it must be re-installed. fault.		

•	Otant un alus ta quatam annan	
6 Scan	Start-up due to system error	Acknowledgement key
Effect	POWER ON	a a blimatan na inatallatian in
Ellect	Start-up of the control shows that a fatal error was present before reset/power off (e activated. Alarm 5 can be set in conjunction with alarm 6. EPROM error, DRAM error	
Explanation	Re-installation is necessary as data loss or corruption is to be expected (no data co	onsistency).
Remedy	The NCK unit must be completely re-installed. Cause of error can be eliminated as follows: a) Replace hardware b) Report the software error leading to the processor exception to the manufacture	er of the control.
7	15 V undervoltage	Acknowledgement key
Scan	POWER ON Cyclic	
Effect	Activates 15V voltage monitoring	
Explanation	Safe operation of the NC is no longer possible so NC Ready is cancelled.	
Remedy	Eliminate hardware fault	
8	Wrong axis/spindle assignment	POWER ON
Scan	After modification of machine dataOn POWER ON	
Effect	 Interlocking of NC START Removal of Mode Group Ready NC Ready relay drops out Machining stops 	
Explanation	 The NC machine data for axis assignment MD200* or spindle assignment MD400* transposed. If error in MD 461* C axis definition: C axis must not be fictitious (MD 564*, bit 6) C axis must be defined (MD 564*, bit 7) Mode group numbers of C axis and spindle must be same (MD 360*, MD 453*) 	have been input incorrectly or
Remedy	Check and correct machine data for axis and spindle assignment. Cancel alarm with POWER ON.	
9	Not enough memory for UMS	POWER ON
Scan	 At POWER ON in normal mode, not in start-up mode 	
Effect	None	
Explanation	The RAM area reserved on the NC is too small for the UMS address lists for the me	odified system area.
Remedy	Describe fewer elements (displays/texts) in modified system area (merge).	
Note	Applies up to SW 2 only	
9	Overflow in altered system area	POWER ON
Scan	When powering up the control	
Effect	The UMS does not function	
Explanation	In the UMS, an altered system area has been configured that exceeds the memory	area.
Remedy	Configure UMS properly	
Note	Applies as from SW 4	

POWER ON

POWER ON

Cancel

10

Scan

Effect

Remedy

Note

10

UMS error

At POWER ON

Interlocking of NC START

Reinstall UMS on hard disk.

Applies up to SW 2 only

Explanation The UMS loaded in NCK has a faulty internal structure.

Startup after software upgrade

27	Data input disabled V.24	POWER ON
Scan	On reading data into the NC via the computer link	
Effect	No data has been read in	
Explanation	 The "Cycle lock" interface signal (DB 48 D0.11) is present An attempt has been made to read in NC machine data in normal mode An attempt has been made to transfer UMS data to the NC although the UMS was not enable in. 	ed or not plugged
Remedy	Reset DB 48 DW 0 bit 11 via PLC STATUSEnter new NC machine data	
Note	Applies up to SW 2 only	
29	Block >254 characters V.24	POWER ON
Scan	 On reading tool data into the NC via the computer link 	
Effect	 Computer link transmission interrupted Last block declared invalid 	
Explanation	The block read in has more than 254 characters (counting all characters read in, including blanks	, CR, LF, etc.)
Remedy	Divide the block into two or more blocks. The number of the faulty block is displayed.	
Note	Applies up to SW 2 only	
30	Part program memory overflow V.24	POWER ON
Scan	 While reading programs in via the computer link of the NC 	
Effect	Computer link transmission interruptedLast block declared invalid	
Explanation	The maximum memory space for part programs is already assigned	
Remedy	 Delete old programs to release memory for the reading in of new programs. The number of th displayed. 	e faulty block is
Note	Applies up to SW 2 only	
31	No more part program input V.24	POWER ON
Scan	On reading in via computer link	
Effect	No data has been read in	
Explanation	The part program memory available has been used up.	
Remedy	Read and delete old part programs no longer required in order to provide more memory.	
Note	Applies up to SW 2 only	
32	Data format error V.24	POWER ON
Scan	On reading data into the NC via the computer link	
Effect	Computer link transmission interruptedLast block declared invalid	
Explanation	 The number of decades used after an address is not permissible The decimal point occurs in the wrong place Part programs or subroutines are not defined or concluded correctly (check header) 	
Remedy	Check the program to be read in. The number of the faulty block is displayed.	
Note	Applies up to SW 2 only	
, 1010		

33	Programs different V.24	POWER ON
Scan	 On reading part programs into the NC memory via the computer link of the NC 	
Effect	No data is read in/stored	
Explanation	If a new program is to be read in with the same program number as one already stored in the NC, be read in is compared. If they are different, an NC alarm occurs. The point of disagreement is sho input display. The new program is not stored.	the program to own in the data
Remedy	Delete the old program or rename it in the NC so that the new program can be read in.	
Note	Applies up to SW 2 only	
43	PLC–CPU not ready for operation	POWER ON
Scan	Cyclic or on Restart	
Effect	Interlocking of NC START	
	 Interlocking of Mode Group Ready Interlocking of NC Ready relay 	
	 Interlocking of NC Ready relay Processing is terminated 	
Explanation	-	
1	PLC machine data error or not in agreement with user program	
	Error in the PLC user program	
Domodu	Selection of error fine coding	
Remedy	 Remove cause of error Check detailed error coding in PLC service menu 	
	Read out ISTACK	
	 Ascertain cause of error using the error list in the installation lists 	
45	Cam signal output wrong	POWER ON
Scan	POWER ON	
Effect	Interlocking of NC START	
	Interlocking of Mode Group Ready	
Explanation	Incorrect values in NC MD 310, 311 Interface output via MIXED I/O selected without the corresponding hardware	
Remedy	Slot in the MIXED I/O before switching on the control.	
46	Invalid TO parameter number	POWER ON
Scan	 After altering machine data and then formatting user memory or when powering up if MD 13 (a MD 60006) is not correct. 	as from SW 4
Effect	 Function not usable Interlocking of NC START 	
Evolution		
Explanation	parameters".	
	"Extended tool parameter for type 5059" deselected: 10 – 32 "Extended tool parameter for type 5059" selected: 10 – 32	
Romody		
Remedy	 Correct machine data Format user memory or, in General Reset mode, format the area for the TO data 	

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47	Wrong TO assignment lists	POWER ON
Scan	At POWER ON after modifying machine data	
Effect	 Interlocking of NC START 	
Explanation		under MD 210 or
Remedy	 Correct machine data Where appropriate format user memory if machine data were input correctly or format the TC Reset mode POWER ON) data in General
48	Data link to PLC not ready	POWER ON
Effect	 Interlocking of NC START Interlocking of NC Ready relay Interlocking of Mode Group Ready Machining stops 	
Explanation	During the start-up synchronization or data exchange between interface-CPU (IFC) and PLC CP established, leading to the alarm. Data exchange between NC and PLC is still possible but the li grammer via the interface is not possible.	
Remedy	Error fine coding can give information on further error sources; in addition, check whether alarm	43 is present.
Note	Applies up to SW 2 only	
49	NC in general reset	POWER ON
Scan	POWER ON	
Effect	None	
Explanation	The software has recognized that the control is in general reset mode.	
Remedy	Leave general reset mode	
50	Flex. memory incorrectly configured	POWER ON
50	Insufficient memory for block buffer	POWER ON
Scan	On pressing NC Start	
Effect	Interlocking of machining Interlocking of "NC Start"	
Explanation	1. The channel-specific machine data 6100* that defines the number of block buffers in a chanr permissible range.	nel is not in the
	2. No memory has been made available (MD 60014) for loading of drive software (MD 60003 of	r 60004).
Remedy	Check and correct the values of the machine data.	
Note	Alarm Insufficient memory for block buffer (with SW 4 and higher)	
	Alarm Flex. memory incorrectly configured (with SW 5.4 and higher)	
57	Drive link failure	POWER ON
Scan		
Effect	Interlocking of NC Ready, NC Start, Mode Group Ready, NC Stop	
Explanation		
Remedy	Eliminate ring programming for GI or gantry axes	

Notify service

POWER ON

	The soliware has recognized an methal error but cannot recitly it.	
Remedy	Notify service.	
67	1st computer link not ready for operation PO	OWER ON
Scan	Cyclic or after POWER ON	
Effect	Message frame transfer between host computer and NC is not possible	
Explanation	Host computer and NC are not synchronized owing to an incorrect input or a fault in the interface moc means that message frame transfer is not possible.	dule. This
Remedy	 Check programming of interface module Check machine data settings for computer link Check whether host computer is ready or connected 	
68	2nd computer link not ready for operation PO	OWER ON
Scan	Cyclic or after POWER ON	
Effect	Message frame transfer between host computer and NC is not possible	
Explanation	Host computer and NC are not synchronized owing to an incorrect input or a fault in the interface mode means that message frame transfer is not possible.	dule. This
Remedy	 Check programming of interface module Check machine data settings for computer link Check whether host computer is ready or connected 	
70	Define at least one channel Po	OWER ON
70 Scan	Define at least one channelPO• At POWER ON	OWER ON
		OWER ON
Scan	 At POWER ON Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready relay Machining not possible 	OWER ON
Scan Effect	 At POWER ON Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready relay Machining not possible At start-up, an incorrect assignment of machine data was made. 	OWER ON
Scan Effect Explanation	 At POWER ON Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready relay Machining not possible At start-up, an incorrect assignment of machine data was made. The NC will not work without channel assignment. Check and correct machine data for channel assignment POWER ON 	OWER ON
Scan Effect Explanation Remedy	 At POWER ON Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready relay Machining not possible At start-up, an incorrect assignment of machine data was made. The NC will not work without channel assignment. Check and correct machine data for channel assignment POWER ON 	
Scan Effect Explanation Remedy 71	 At POWER ON Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready relay Machining not possible At start-up, an incorrect assignment of machine data was made. The NC will not work without channel assignment. Check and correct machine data for channel assignment POWER ON Too many real axes	
Scan Effect Explanation Remedy 71 Scan	 At POWER ON Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready relay Machining not possible At start-up, an incorrect assignment of machine data was made. The NC will not work without channel assignment. Check and correct machine data for channel assignment POWER ON At POWER ON Interlocking of NC START Interlocking of NC START Interlocking of NC Ready relay Machining stops Surplus axes are not shown on the service display 	OWER ON

60

Scan

Effect

Internal software error

Computer stops, machining stops, interlocking of NC Start

Explanation The software has recognized an internal error but cannot rectify it.

Cyclic

1–15

72	Too many fictitious axes	POWER ON
Scan	At POWER ON or warm restart	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready relay Machining stops 	
Explanation	More fictitious axes than are permitted were defined in axis-specific machine data bits 564* durin	g installation.
Remedy	Correct axis-specific machine data bits 564*.	
73	Axis preset in wrong mode group	POWER ON
Scan	At POWER ON or warm restart	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready relay Machining not possible 	
Explanation	At start-up, an incorrect assignment of NC machine data was made or the assignment of axis se 2 machine control panels is incorrect or a wrong axis is set in the program.	lector switch with
Remedy	 Check and correct NC machine data "Axis valid in mode group". Correct program POWER ON 	
74	Too many drives	POWER ON
Scan	At POWER ON or warm restart	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready relay Machining stops Surplus axes do not appear in the service display 	
Explanation	The total number of spindles and real axes defined during installation is greater than permitted.	
Remedy	Correct axis-specific machine data bits 564* and spindle-specific machine data bits 521*.	
75	Max. number of meas. circuits exceeded	POWER ON
Scan	At POWER ON or warm restart	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready relay Machining stops Surplus axes do not appear in the service display 	
Explanation	Output of alarm if too many axes and spindles are defined.	
Remedy	Reduce the number of axes (MD 564*) and spindles (MD 512*).	
Note	Axes/spindles that are not assigned to a measuring circuit are included in the number of measuring	ng circuits.
77	Mode group no. of axis invalid	POWER ON
Scan	At POWER ON	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready relay Interlocking of machining 	
•	Check and correct machine data for axis assignment and spindle assignment.	
Remedy	Check and correct machine data for "Axis valid in mode group"Perform POWER ON	

78	Mode group no. of spindle invalid	POWER ON
Scan	At POWER ON	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready relay Interlocking of machining 	
Explanation	Check and correct machine data for axis assignment and spindle assignment.	
Remedy	Check and correct machine data for "Mode group of spindle"Perform POWER ON	
79	Mode group no. of channel invalid	POWER ON
Scan	At POWER ON	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready relay Interlocking of machining 	
Explanation	An incorrect assignment (e.g. channel gap) has been made in the channel-specific machine data valid in mode group".	for "Channel
Remedy	Check machine dataPerform POWER ON	
80	Error in C axis definition	POWER ON
Scan	At POWER ON and warm restart	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready relay Machining stops If C axes and spindles are incorrectly assigned, the spindle does not appear in the service di 	splay.
Explanation	The C axes assigned to the spindles were either defined as non-existent or fictitious during instal spindle and assigned C axis mode groups are not identical.	
Remedy	Check and correct axis-specific machine data bits 564*, axis-specific machine data 360* and spi chine data 453* and 461*.	ndle-specific ma-
84	Coupled motion grouping defined wrong	POWER ON
Scan	At POWER ONAt warm restart	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Interlocking of machining 	
Explanation	 An illegal coupled axis grouping has been set for the assignment of coupled axes in machine dat. The axes do not belong to the same mode group The axes have different position control resolutions The axes are of different types (linear axis/rotary axis) The axes are declared as being not present The axes are fictitious The leading axis is defined as a coupled axis 	a, e.g.:
Remedy	Correct machine data using the "Coupled motion" function and perform a warm restart (see Start	up Guide).

85	Coupled-motion combination wrong	POWER ON
Scan	POWER ONWarm restart	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Interlocking of machining 	
Explanation	An undefined combination has been input in NC machine data for the coupled axis combination.	
Remedy	Correct machine data and perform a warm restart (see Start-up Guide).	
87	Illegal software limit switch	POWER ON
Scan	After altering machine data	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Interlocking of machining 	
Explanation	An excessively large value has been entered in the NC machine data for the software limit switch traversing range of the individual axes results from the axis-specific position control resolution se resolution. With alarm 87, the control has automatically entered the maximum permissible value in NC machine data.	t and the input
Remedy	Check machine data for software limit switch and where appropriate correct.	
Note	Applies up to SW 2 only	
88	Interpolation greater than 3D	POWER ON
Scan	When executing part programs in AUTOMATIC or MDA	
Effect	Interlocking of NC STARTInterlocking of machining	
Explanation	More than 3 axes have been programmed in one block in the part program block of the NC, or the not active.	e "5D" function is
Remedy	Modify part programDo not execute more than 2 programs at once	
89	More than two 3D interpolations	POWER ON
Scan	When executing part program blocks in AUTOMATIC or MDA	
Effect	Interlocking of NC STARTMachining stops	
Explanation	More than 3 axes have been programmed in more than 2 channels in the NC in one program bloc	ck in each case.
Remedy	Modify programDo not execute more than 2 programs at once	
90	Customer UMS invalid	POWER ON
Scan	At POWER ON when UMS bit is set	
Effect	Interlocking of NC START until alarm is acknowledged. Standard UMS is loaded.	
Explanation	Customer UMS faulty or >512 KB.	
Remedy	Check customer UMS.	
Note	Applies up to SW 2 only	
91	ID no. in UMS header faulty	POWER ON
Scan	At POWER ON and with activated UMS data	
Effect	Interlocking of NC START until alarm is acknowledged.	
Explanation	The programmed ID number in the UMS header, which is evaluated by the system software, is in been read incorrectly because the UMS submodules were plugged in incorrectly.	correct or has
Remedy	Check WS 800A software version.	
Note	Applies up to SW 3 only	

91	UMS invalid	POWER ON
Scan	At POWER ON and activated UMS data	
Effect	Interlocking of NC START until alarm is acknowledged.	
Explanation	The configured identifying number in the UMS header, evaluated by the system softwas been loaded because the memory reserved for this (MD 60000) is smaller than the transmission of the system set of the system	
Remedy	Check MD 60000 or install the correct UMS.	
Note	Applies as from SW 4	
93	Wrong UMS selector	POWER ON
Scan	At POWER ON and with activated UMS data	
Effect	 Interlocking of NC START until alarm is acknowledged. 	
Explanation		ired for error-free processing
Explanation	of a UMS.	nou for other mod proceeding
Remedy	Check the system software of the NC workstation, or have it checked.	
94	Wrong UMS identifier	POWER ON
Scan	At POWER ON and with activated UMS data	
Effect	 Interlocking of NC START until alarm is acknowledged. 	
Explanation		
, Remedy	Check UMS and NC workstation software.	
2		
95	Wrong number in GSB	POWER ON
Scan	At POWER ON and with activated UMS data	
Effect	 Interlocking of NC START until alarm is acknowledged. 	
Explanation		reserved areas.
Remedy	Check the numbers used in the modified system area.	
96	Language in UMS not available	Acknowledgement key
Scan	At UMS analysis (POWER ON of control not during start-up)	Acknowledgement key
Effect	UMS is connected in its basic language	
	Two-language UMS does not contain the language activated in the control	
Remedy	Put correct UMS in control	
Note	Applies up to SW 1 only	
101	Prewarning replace battery	Acknowledgement key
Scan	POWER ON	Townedgement Rey
Jouri	Cyclic	
Effect	Battery monitoring is activated if battery voltage falls below the advance warning volt	age threshold.
Explanation	The working process is not interrupted User is advised to replace the backup battery to avoid the risk of data loss – see alar	rm 1.
Remedy	Replace battery when control is switched on	

Remedy Replace battery when control is switched on

102	Prewarning overtemperature Acknowledgement key
Scan	POWER ON Cyclic
Effect	The first temperature monitoring threshold on the CBS module is activated because the ambient temperature is too high
Explanation	User is given advance warning. The working process is not interrupted.
Remedy	A lower temperature level is required to eliminate the fault
103	Initializing error NCK FB POWER ON
Scan	When powering up the control
Effect	Interlocking of NC START Follow–up mode Removal of Mode Group Ready
Explanation	The initialization routine of the NCK FB has returned a value which is not equal to zero. The return value is output in the alarm as block number N.
Remedy	Check the NCK FB.
Continuatior	7.The alarm is initiated when powering up the control. No program can be started. Acknowledge alarm by POWER ON.
Note	 Alarm 103 is output only if appropriately configured by the machine manufacturer. An error has occurred in the safety NCK–FB. For more information and remedy, refer to the manufacturer's documentation. Applies as from SW 5.4. Applies as from SW 5.4.
104	Error in machine data
Scan	When powering up the control After a warm start After changing a machine data
Effect	Interlocking of NC START Follow–up mode Removal of Mode Group Ready
Explanation	A machine data contains an implausible value. The machine data error is output in the alarm as block number N.
Remedy	Evaluate the block number and correct the corresponding machine data.
Continuatior	The alarm is initiated when powering up the control. No program can be started. Acknowledge alarm by POWER ON.
Note	Applies as from SW 5.4
105	Error in NCK FB
Scan	During cyclic operation of control
Effect	Interlocking of NC START

Follow–up mode Removal of Mode Group Ready Interruption of machining

Explanation The cyclic routines of the NCK FB have returned a value which is not equal to zero.

Remedy Evaluate the block number and check the NCK FB.

Continuation No program can be started. Acknowledge alarm by POWER ON.

- Alarm 105 is output only if appropriately configured by the machine manufacturer. An error has occured in the safety NCK–FB. For more information and remedy, refer to the manufacturer's documentation. Applies as from SW 5.4 ٠
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Note

110 Checksum error safe monitorings POWER ON Scan When powering up the control Effect Interlocking of NC START Explanation The MDS for the safety system are protected by a checksum after acceptance of the control. The alarm indicates without authorization or a data is defective. Remedy Check the MDs. Inspect the safety functions again. Have the checksum calculated again. Continuation The alarm is initiated when powering up the control. No program can be started. Alarm acknowledgement only possible by POWER ON. POWER ON Note Applies as from SW 5.4 POWER ON. Scan At POWER ON. POWER ON Scan At POWER ON OL-09 = Protection zone 1-20 (see explanation) Nubic addition axes not in same mode group OL-09 = Protection zone 1-20 (see explanation) Nubic addition axes not in same mode group OL-09 = Protection zone 1-20 (see explanation) Machining standstill; Interforceding Or machining (NC Start); DL-NC - Ready-0 EFfect Machining standstill; Interforceding Or Machining standstill; Interforceding Or Machining standstill; Interforceding or protection zone diffied in the machine data 3800°, 3802°, 3804°. QueMetria adv GueMating standstill; Interforceding or protectino zone dintensions anot available (ald innensions-0) <				
Effect Interlocking of NC START Explanation The MDs for the safety system are protected by a checksum after acceptance of the control. The atarm indicates that the current checksum no longer matches the stored checksum, i.e. either an MD value has been changed without authorization or a data is defective. <i>Remedy</i> Check the MDs. Inspect the safety functions again. Have the checksum calculated again. <i>Continuation</i> The atarm is initiated when powering up the control. No program can be started. Alarm acknowledgement only possible by POWER ON. <i>Note</i> Applies as from SW 5.4 111 Error in collision monitoring data POWER ON. <i>Scan</i> At POWER ON. <i>Parameters</i> : Block number (4-digit) Nxxs:: 32rd ad th digit. Error identifier 01-80 class not in same mode group 00-09 = Protection zone 1-20 (see explanation) Deletion zone on explanation) 03-Begity contention: 02-Motion axis does not exist 02-Motion axis does not exist 03-Motion axis does not exist 03-Motion axis does not exist 04-Motion axis does not exist 04-Protection zones not defined in same plane Effect Machining stands able and egroup 04-Protection zones not defined in same plane 01-Motion axis does not exist 03-Motion axis does not exist 04-Protection zone dimension 02-Motion axis does not ex	110	Checksum error safe monitorings		POWER ON
Explanation The MDs for the salety system are protected by a checksum after acceptance of the control. The alarm indicates that the current checksum no longer matches the stored checksum, i.e. either an MD value has been changed without authorization or a data is defective. Remedy Check the MDs. Inspect the safety functions again. Have the checksum calculated again. Continuation The alarm is initiated when powering up the control. No program can be started. Alarm acknowledgement only possible by POWER ON. Note Applies as from SW 5.4 Parameters: Block number (4-digit Nxxss: 3rd and th digit: Exror identifier: 01-09 = Protection zone 1-20 1st and 2nd digit: Exror identifier: 01-09 = Protection zone 1-20 03-effort in collision cone dimensions not available (all dimensions=0) 03-effort identifier: 04-erotection zone dimension 00-09 = Protection zone 1-20 03-effort in monitoring relation 03-effort identifier: 04-erotection zone dimensions not available (all dimensions=0) 03-effort identifier: 04-erotection zone dimensions not available (all dimensions=0) 03-effort identifier 04-erotection zone dimensions not available (all dimensions=0) 03-effort identifier 04-erotection zone dimensions not available (all dimensions=0) 03-effort identifier 04-erotection zone dimensions not available (all dimensid as 300', 3802',		When powering up the control		
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possible by POWER ON. Note Applies as from SW 5.4 111 Error in collision monitoring data POWER ON Scan At POWER ON Parameters: Block number (4-digit) Nxxss: 3rd and 4th digit: Number of protection zone 00-09 = Protection zone 1-20 stat ad 2th digit: Error identifier 01=Motion axis does not exist 02=Motion axes not exist 02=Motion axes not is same mode group 03=Error inmonitoring relation 03=Error inmonitoring relation 04=Protection zone dimensions not available (all dimensions=0) 05=Regative protection zone dimension 06=Protection zone so not defined in same plane Effect Machining statishalli; interlocking of machining (NC Start); BAG-BB=0, NC-Ready=0 Error identifiers D1=Motion axis does not exist Anon-existing axis has been specified in the machine data 3800°, 3802°, 3804°. O2=Motion axes not in same mode group Anon existing axis has been specified in the machine data 380°, 3802°, 3804°. D2=Error in monitoring reference Deselection of the protection zone 2 in the machine data 380°, 3802°, 3804°. D2=Kegative anotin same mode group have been specified in the machine data 3812°, 3814°, 3816° are al=0. Deselection zone dimensions poetide in the machine data 3812°, 3814°, 3816° are al=0. Deselection zone dimensions specified in the machine data 3812°, 3814°, 3816° are al=0.	Remedy	Check the MDs. Inspect the safety functions again. Have the	e checksum calculated again.	
111 Error in collision monitoring data POWER ON Scan At POWER ON Parameters: Block number (4-digit) Nxxss: grad and 41 might: Number of protection zone (00-09 = Protection zone 1-20) ist and 2nd digit: Error identifier (see explanation) Nibble 3.4=Error identifier (see explanation) Other information axis does not exist 02-Motion axes not in same mode group Other informatic endermonia 02-Motion axes not exist Anon-existing axis has been specified in the machine data 3800°, 3802°, 3804°. Descretion of monitoring reference Maching attance not in same mode group in the valiable (all intermachine data 3800°, 3802°, 3804°. Other information axes not in same mode group in the valiable (all the machine data 3800°, 3802°, 3804°. Descretion of monitoring of protection zone information axis does not exist A non-existing axis has been specified in the machine data 3812°, 3814°, 3816° are all=0. Descretion zone dimensions specified in the machine data 3812°, 3814°, 3816° are all=0. Mest not on monitoring of protection zone dimensions specified in the machine da	Continuatior	7 The alarm is initiated when powering up the control. No prog possible by POWER ON.	ram can be started. Alarm acknowledg	gement only
Scan At POWER ON Parameters: Block number (4-digit) Nxxss: 3rd and 4th digit: Number of protection zone 1st and 2nd digit: Error identifier 01=Motion axis does not exist 02=Motion axis does not exist 03=Error i monitoring relation 04=Protection zone dimensions not available (all dimensions=0) 05=Negative protection zone dimensions 06=Protection zones not defined in same plane Effect Machining standstill: interlocking of machining (NC Start); BAG=BB=0; NC-Ready=0 Explanation Error identifiers 01=Motion axis does not exist A non-existing axis has been specified in the machine data 3800°, 3802°, 3804°. 02=Motion axes not in same mode group Axes that are not in same mode group Axes that are not in same mode group Axes that are not in same mode group have been specified In the machine data 3800°, 3802°, 3804°. 03=Error i monitoring of protection zone 2 in the machine data of protection zone 1 causes the deselection of monitoring of protection zone 2 in the machine data of protection zone 1 causes the deselection of monitoring of protection zone 4 in the machine data 3812°, 3814°, 3816° are all=0. 05=Negative protection zone dimensions specified in the machine data 3812°, 3814°, 3816° is negative. But only positive dimensions are allowed. 06=Protection zone dimensions specified in the machine data 3812°, 3814°, 3816° is not identical with the planes of the other protection zone specified in same plane The protection zones to termonional. It is related to another 2-dimensional protection z	Note	Applies as from SW 5.4		
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interlocking of machining (NC Start); BAG-BB=0; NC-Ready=0 Explanation Error identifiers <u>01=Motion axis does not exist</u> A non-existing axis has been specified in the machine data 3800*, 3802*, 3804*. <u>02=Motion axes not in same mode group</u> Axes that are not in same mode group have been specified In the machine data 3800*, 3802*, 3804*. <u>03=Error in monitoring reference</u> The mutual deselection of the protection zone monitoring in the MD bits 38803+s*3 has not been executed cor- rectly. Deselection of monitoring of protection zone 2 in the machine data of protection zone 1 causes the deselection of monitoring of protection zone 1 in the machine data of protection zone 1 causes the deselection of monitoring of protection zone 1 in the machine data 3812*, 3814*, 3816* are all=0. <u>05=Negative protection zone dimensions</u> At least one of the protection zone dimensions specified in the machine data 3812*, 3814*, 3816* is negative. But only positive dimensions and available The protection zones not defined in same plane The protection zones not defined in same plane The protection zone specified is 2-dimensional protection zones that are in a monitoring relation must lie in the same plane. 1st possibility: The plane of the protection zone defined in the machine data 3812*, 3814*, 3816* is not identical with the planes of the other protection zone should not monitor the protection zones in other planes, i.e. the protection zone relation must be corrected in the machine data 3812*, 3814*, 3816* is not identical with the planes of the other protection zone should not monitor the protection zones in other planes, i.e. the protection zone relation must be corrected in the machine data bits 38803 – 38815 (monitoring relation). Remedy				
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The mutual deselection of the protection zone monitoring in the MD bits 38803+s*3 has not been executed cor- rectly. Deselection of monitoring of protection zone 2 in the machine data of protection zone 1 causes the deselection of monitoring of protection zone 1 in the machine data of protection zone 2, i.e. deselection must always be carried out mutually. <u>04=Protection zone dimensions not available</u> The protection zone dimensions specified in the machine data 3812*, 3814*, 3816* are all=0. <u>05=Negative protection zone dimension</u> At least one of the protection zone dimensions specified in the machine data 3812*, 3814*, 3816* is negative. But only positive dimensions are allowed. <u>06=Protection zones not defined in same plane</u> The protection zone specified is 2-dimensional. It is related to another 2-dimensional protection zone, which is defined in another plane. But 2-dimensional protection zones that are in a monitoring relation must lie in the same plane. 1st possibility: The plane of the protection zone defined in the machine data 3812*, 3814*, 3816* is not identical with the planes of the other protection zones to be monitored. 2nd possibility: The protection zone should not monitor the protection zones in other planes, i.e. the protection zone relation must be corrected in the machine data 3815 (monitoring relation). Remedy		Axes that are not in same mode group have been specified	n the machine data 3800*, 3802*, 3804	4*.
Desélection of monitoring of protection zone 2 in the machine data of protection zone 1 causes the deselection of monitoring of protection zone 1 in the machine data of protection zone 2, i.e. deselection must always be carried out mutually. 04=Protection zone dimensions not available The protection zone dimensions specified in the machine data 3812*, 3814*, 3816* are all=0. 05=Negative protection zone dimension At least one of the protection zone dimensions specified in the machine data 3812*, 3814*, 3816* is negative. But only positive dimensions are allowed. 06=Protection zones not defined in same plane The protection zone specified is 2-dimensional. It is related to another 2-dimensional protection zone, which is defined in another plane. But 2-dimensional protection zones that are in a monitoring relation must lie in the same plane. 1st possibility: The pare of the protection zone defined in the machine data 3812*, 3814*, 3816* is not identical with the planes of the other protection zones to be monitored. 2nd possibility: The protection zone should not monitor the protection zones in other planes, i.e. the protection zone relation must be corrected in the machine data bits 38803 – 38815 (monitoring relation). Remedy Correct machine data and execute POWER ON.		The mutual deselection of the protection zone monitoring in	the MD bits 38803+s*3 has not been e	executed cor-
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The protection zone specified is 2-dimensional. It is related to another 2-dimensional protection zone, which is defined in another plane. But 2-dimensional protection zones that are in a monitoring relation must lie in the same plane. 1st possibility: The plane of the protection zone defined in the machine data 3812*, 3814*, 3816* is not identical with the planes of the other protection zones to be monitored. 2nd possibility: The protection zone should not monitor the protection zones in other planes, i.e. the protection zone relation must be corrected in the machine data bits 38803 – 38815 (monitoring relation). Remedy Correct machine data and execute POWER ON.		At least one of the protection zone dimensions specified in t	ne machine data 3812*, 3814*, 3816* is	s negative. But
The plane of the protection zone defined in the machine data 3812*, 3814*, 3816* is not identical with the planes of the other protection zones to be monitored. 2nd possibility: The protection zone should not monitor the protection zones in other planes, i.e. the protection zone relation must be corrected in the machine data bits 38803 – 38815 (monitoring relation). Remedy Correct machine data and execute POWER ON.		The protection zone specified is 2–dimensional. It is related defined in another plane. But 2–dimensional protection zone		
The protection zone should not monitor the protection zones in other planes, i.e. the protection zone relation must be corrected in the machine data bits 38803 – 38815 (monitoring relation). Remedy Correct machine data and execute POWER ON.		The plane of the protection zone defined in the machine data	a 3812*, 3814*, 3816* is not identical w	<i>i</i> ith the planes of
		The protection zone should not monitor the protection zones		e relation must
Note Applies as from SW 6	Remedy	Correct machine data and execute POWER ON.		
	Note	Applies as from SW 6		

100*	Leadscr. err. compillegal grid spacg.	POWER ON
Scan	After POWER ON	
Effect	Interlocking of NC START	
	Interlocking of Mode Group Ready	
Explanation	 Leadscrew error compensation with rotary axes in NC machine data "Distance between 2 value entered for the appropriate axis with a value which cannot be divided into 360 degrees to give spacing is not equal; e.g. Correct: NC-MD= 10 (rotary axis) Results in: 360/10 = 36 grid points Incorrect: NC-MD= 11 Would give: 360/11 = 32,7 grid points The compensation value chosen is too large compared with the distance between two leadscr tion points (valid for rotary and linear axes). 	an integer, i.e. grid
Remedy	 Modify NC machine data "Distance between 2 values" – check NC MD 324* and 328*. The compensation value in NC MD 328* must be less than NC MD 324*. 	
104*	Speed setpoint value warning limit responded	Reset key
Scan	Cyclic	
Effect	Interlocking of NC START	
Explanation	For analog measuring circuit: The DAC set value entered is higher than in NC machine data 268* "Maximum setpoint speec possible to increase the set value further.	I (DAC)". It is not
Remedy	 Traverse more slowly Check actual values (encoder) Check NC machine data "Maximum setpoint speed (DAC)" Check the drive actuator 	
112*	Zero-speed control	Reset key
Scan	 When accelerating When stopped When clamping When decelerating (delay) 	
Effect	Interlocking of NC STARTInterlocking of Mode group READY	
	 Setpoint 0 The control enable is removed after the time stored in NC machine data "Control enable c elapsed Follow-up operation 	utout delay" has
Explanation	 cutout delay["] during positioning On clamping, the limit defined in NC machine data "Zero speed monitoring" was exceeded A mechanically clamped axis has been pushed out of position 	3
	 Fault in the control device (actuator), at the tacho, at the motor, in the CNC measuring circ at/on the pulse encoder Incorrect specification on assigning the set value output At start-up: wrong position control direction 	uit hardware or
Remedy	 NC machine data "Zero speed monitoring" must be greater than "Coarse exact positioning. NC machine data "Control enable cutout delay" must be large enough for the following err within this time (only applies if NC machine data "Zero speed monitoring delay" = 0) NC machine data "Zero speed monitoring delay" must be large enough for the following err axis to be removed within the time entered Check actual values (encoder) and position control direction 	or to be removed

116*	Contour monitoring Reset key
Scan	In all modes
	 When decelerating When accelerating
	 At velocities greater than in NC machine data "Contour threshold speed"
Effect	Interlocking of NC START
	 Interlocking of Mode Group Ready Setpoint 0
	• The control enable is removed after the time stored in NC machine data "Control enable cutout delay" has
	 elapsed Follow-up operation
Explanation	
	 "Tolerance band contour monitoring" was exceeded When accelerating or decelerating the axis has not reached the new speed within the time defined by the K_V
. ,	factor
Remedy	 Increase NC machine data "Tolerance band contour monitoring" Check K_V (servo gain) factor
	Check the optimization of the speed controller
	 Check the actual values (pulse encoder) Check the free movement of the axes
	Reduce acceleration
120*	Axis specification illegal Reset key
Scan	At POWER ON
Effect	Axis is not processed
	 Controller disable for the relevant axis Mode Group Ready removed
	Interlocking of NC START
Explanation	 Specification of MD200x or MD384x in the relevant axis missing. Example: MD2000 = 01020101 and MD384 = 00000000
	• Specification of module number in MD200x or MD384 is greater than the number of measuring circuit modules
	present. Example: MD2000 = 04010000 and 3 measuring circuit modules are plugged in.
	 Specification of the connection number in MD200x or MD384 is greater than the number of connections on the relevant module.
	Example: MD3840 = 02070000; the 2nd measuring circuit module is a SPC module and therefore has only 6 connections.
	 Connection number for an input is assigned to an output and vice versa.
	Example: MD3840 = 01030000; the 1st measuring circuit module is a HMS module and connection number 3 there is an input connection.
	 Input or output assignment is not compatible with the plug-in submodule. Example: MD2000 = 01040101; the 1st measuring circuit module is a HMS module with output submodule
Remedy	Servo-Command 6FX1132–5BAxx on its submodule slot 1.
-	 Check and correct MD200x and MD384x of the relevant axis. Both these machine data must be specified or must be zero. In addition, they must agree with the hardware configuration.
Note	Applies up to SW 2 only
128*	Measuring circuit not available POWER ON
Scan: Effect	At POWER ON
Ellect	 Axis is not processed Control disable for the axis concerned
	NC Ready 2 removed
	 Interlocking of NC START Interlocking of Mode Group Ready
	Interlocking of NC RDY relay
Explanation	 MD200x or MD384x indicates an empty slot on a measuring circuit module containing submodules. Example: MD3840 = 01090000; the 1st measuring circuit module is a HMS module with submodule slot 2
	empty.
Remedy	 Measuring circuit module removed or defective. Compare and correct MD200x or MD384x with hardware configuration.
Noniouy	

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132*	Closed-loop system hardware axis	POWER ON
Scan	Cyclic	
Effect	Interlocking of NC START	
	Interlocking of Mode Group Ready	
	 Setpoint = 0 The control control control of the time stand in NO machine data "Control control contr	ut deleu" hee
	 The control enable is removed after the time stored in NC machine data "Control enable cuto elapsed 	ut delay" has
	Follow-up operation	
Explanation	The measuring circuit difference signals.	
	 Are not in phase Have a fault to earth 	
	Are completely missing	
Remedy	Check whether the measuring circuit connector has been plugged in	
	 By plugging in the measuring circuit short-circuit connector it is possible to check whether the cuit group is in working order 	e measuring cir-
	Check the difference signals using an oscilloscope	
	 Replace the encoders Check NC MD 200*, 384* 	
	The alarm can only be cancelled by POWER ON.	
136*	Contamination measuring system axis	POWER ON
Scan	Cyclic	
Effect	Interlocking of NC START	
Lilect	Interlocking of Mode Group Ready	
	Machining stops	
Explanation	 On measuring systems with a contamination signal (e.g. EXE) an error is sent to the NC from system. 	n the measuring
Remedy	Check the measuring system in accordance with the manufacturer's instructions.	
140*	Pulse code monitoring	Reset key
Scan	Cyclic	
Effect	Interlocking of Mode Group Ready	
	 Interlocking of NC START Alarm leads to machining stop 	
Explanation		
Remedy	Check encoder, cable, connector	
	· · · · · · · · · · · · · · · · · · ·	
144*	Zero mark monitoring responded	Reset key
Scan	Cyclic	NUSEL NEY
Effect	Interlocking of NC START	
Explanation	-	der revolution
Remedy	Check encoder pulses	
riemeay	Check transmission path	
	 Switch off monitoring system briefly with MD 1820* bit 1=0 	
148*	SW limit switch plus	Reset key
Scan	With each axis movement	
Effect	Machining stops	
Exected at	Interlocking of NC START	
Explanation	 The software limit switch only becomes active after approach to reference point. Depending on the PLC interface signal "Second software limit switch active", the first or the s 	econd limit switch
	has been approached.	
Devecedu		

• Check the values in machine data for software limit switches.

152*	SW limit switch minus Reset key	
Scan	On each axis movement	
Effect	 Machining stops Interlocking of "NC START" 	
Explanation	 The software limit switch becomes active only after reference point approach has taken place. The first or second software limit switch has been approached, according to the PLC interface signal "Second software limit switch active". 	
Remedy	 Travel away from the software limit switch in the opposite direction using JOG mode. Check NC machine data for 1st software limit switch minus or 2nd software limit switch minus. 	
156 * Scan Effect	Speed set val. alarm limit responded Reset key Cyclic Interlocking of NC START	
Liloot	Interlocking of Mode Group ReadySetpoint 0	
	 The control enable is removed after the time stored in NC machine data "Control enable cutout delay" has elapsed Follow-up operation 	
Explanation	errors".	
	 The motor could not follow the setting of the speed set value. On installation: wrong position control direction 	
Remedy	 Check whether the value in NC machine data "Threshold for drive errors" is greater than the value in NC machine data "Max. speed setpoint (DAC)" Check the drive Check the position control direction 	
	 Check the speed set value cable Check actual values (encoder) 	
160*	Drift too high Reset key	
Scan	Where there is semi-automatic drift compensation and changes to MDs	
Effect	 Interlocking of NC START "Position not yet reached" is displayed No traversing movement is possible 	
Explanation	The drift to be compensated by the NC automatically has risen beyond approximately 500 mV.	
Remedy	 Carry out drift compensation in NC machine data "Drift compensation" Check whether the drift on the drive unit has been set correctly 	
164*	Coupled-motion axis programmed Reset key	
Scan	When executing a part program	
Effect	 Machining is interrupted Interlocking of NC START 	
	The axis-specific alarm appears if a coupled axis is assigned several times in one part program block or if an axis is "Leading axis" and coupled axis at the same time in one part program block.	
Remedy	Check and correct program	
168*	Servo enable traversing axis Reset key	
Scan	With each axis movement	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Setpoint 0 	
	 The control enable is removed after the time stored in NC machine data "Control enable cutout delay" has elapsed Follow-up operation 	
Fynlanation	The axis-specific controller enable has been removed by the PLC during a traversing movement.	
Remedy	 Check the PLC program 	

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Working area limitation plus

Program G26 with different values

Working area limitation minus

Check the machining program

Program G25 with different values

Axis active in several channels

Stop a channel by pressing NC STOP

When executing a part program

Machining stops

both programs (channels).

Check both programs

Insert L999 or @714

Interlocking of NC START

Explanation The working area limitation specified in the setting data has been reached.

Check the working area limitation in the setting data

Check the working area limitation in the setting data

Explanation The working area limitation minus preset in the setting data of the NC has been reached.

When executing a part program

Machining stops

Check the program

When executing a part program

Machining stops Interlocking of NC START

Interlocking of NC START

172*

Scan

Effect

Remedy

176*

Scan

Effect

Remedy

180*

Scan

Effect

Explanation

Remedy

Note

188*

Remedy

Remedy

Reset key

Reset	key
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Reset key

- Scan Cyclic
- Effect Interlocking of NC START • Direction key in the direction of approach disabled •

HW limit switch plus

Machining stops

Channel-specific

Explanation The limit switch is approached in the plus direction or triggered by other errors.

- Travel away in the opposite direction •
 - Check PLC user program
 - ٠ Check limit switches

192*	HW limit switch minus
Scan	Cyclic
Effect	Machining stops

- Interlocking of NC START
- Direction key disabled in approach direction

Explanation The machine limit switch in the minus direction has been approached or has been activated by other errors.

When executing two or more programs in different channels at the same time, one axis has been programmed in

- Travel away in the opposite direction in JOG mode
 - Check limit switches
 - Check PLC user program

Reset key

196*	Coupled-motion axis assigned twice Reset key	,
Scan	When executing a part program	
Effect	 Interlocking of NC START Machining is interrupted 	
Explanation	 2 leading axes have been programmed whose coupled axes are the same. Axis X → Axis Y Axis Z → Axis Y 2 leading axes have been programmed with one leading axis also being the coupled axis of the other leading axis. Axis X → Axis Y 	
Remedy	 Axis Y → Axis Z Correct program 	
2000	Emergency Stop POWER ON	ł
Scan	Cyclic	
Effect	 Interlocking of NC START Setpoint 0 Follow-up operation as internal setting 	
Explanation	The "EMERGENCY STOP" signal is output to the NC from the PLC.	
Remedy	 Check with PLC STATUS Check whether "EMERGENCY STOP" cam has been approached or "EMERGENCY STOP" button has been actuated Check the PLC user program 	
Note	On selecting Start-up mode, there is always an Emergency Stop message.	
2021	Contour violation with tool radius compensation Reset key	,
Scan	When executing a part program, with active TRC Not: in the selection block in the deselection block	
Effect	The tool radius compensation has recognized a contour violation. Processing of the part program is interrupted (depending on MD 5024, bit 0), the alarm is cancelled with RESET.	
Explanation	 The contour calculation results in a traversing movement which is opposite to the programmed movement (e.g. when machining an internal circle, where the milling radius is larger than the circle radius). Between two blocks in the TRC plane, too many blocks have been programmed outside the TRC plane (see also Programming Guide, Section 11.11). In this case, the block number displayed indicates the 4th block outside the TRC plane. If the path to be traversed with perpendicular external contours is smaller than the active tool radius and G450 is programmed (TRC with transition circle). 	
Remedy	 Check program specifications Deselect compensation at the respective point and select it again Check used tool against the specifications (tool radius too large?) G451, program TRC with intersection. 	
Note	Alarm is displayed with reference to block and channel.	
2022	Plane not defined for TO type Reset key	,
Scan Effect	When executing a part program	
Effect	 Interlocking of NC START Machining stops 	
Explanation	On selecting a D No. of tool type 5059, the CRC plane and the length compensations were not defined with G16.	
Remedy	Define CRC plane and length compensations with G16!	
Note	Applies as from SW 4	
Note	Alarm is displayed with reference to block and channel	

2023	Invalid type of tool Reset A	œy
Scan	When executing a part program	
Effect	Interlocking of NC START	
Explanation	A tool has been selected with unknown tool type (0, >59), or a tool of type 5059 has been selected, even thou the tool offset memory has been formatted with fewer than 12 parameters.	gh
Remedy	Enter a permissible tool type for the selected tool.	
Note	Applies as from SW 4	
Note	Alarm is displayed with reference to block and channel	
2031	Weighting factor too large/small Reset	œy
Scan	When executing a part program	
Effect	 Interlocking of NC START Machining stops Deletion of part setpoint 	
Explanation	The actual axis velocity has become so large, as a result of recalculation with the specified weighting factor, the the maximum permissible velocity with the axis-specific position control resolution set has been exceeded.	at
Remedy	 Check NC machine data "Weighting factor" (MD 388*) Program a lower velocity Reduce the feedrate or rapid override 	
2036	G35 pitch decrease too high Reset H	œy
Scan	When thread cutting	
Effect	Interlocking of NC STARTMachining stops	
Explanation	The lead decrease in the thread is so large that a lead greater than or equal to 0 would result at the end of the thread.	
Remedy	Program a smaller lead decrease or a shorter thread	
Note	Channel-specific	
2037	Programmed S value too high Reset H	œy
Scan	When executing a part program	
Effect	None; for information only	
Explanation	 The programmed spindle speed in AUTOMATIC/MDA is too high. Resulting velocity too high for thread, see Installation and Start–up Guide, Section 10.2. 	
Remedy	Program lower spindle speed	
2038	Path feed too great Reset k	œy
Scan	When executing a part program	
Effect	 Machining is interrupted Interlocking of NC START Axes go into follow-up mode, servo-enable is cancelled 	
Explanation	The axis velocity has been made so large by the programmed path feedrate that the maximum permissible axis velocity with the position control resolution set has been exceeded. The entered acceleration data are too small.	i
Remedy	Program a smaller path feedrateCheck interpolation combinations in the part program block	
Note	Channel-specific	

2039 Reference point not reached Acknowledgeme	ent key
Scan When executing a part program	
Effect • Interlocking of "NC START"	
Explanation The reference point has not been approached by at least one axis and NC START has been pressed in M AUTOMATIC mode. Nockensignale wurden aktiviert, ohne daß für diese "Referenzpunkt erreicht" war.	1DA or
 <i>Remedy</i> Approach reference point The alarm does not occur if the NC machine data "NC START without reference point" is set 	
2040 Program disabled Res	set key
Scan When executing a part program	
Effect Machining stop	
Explanation The program (MPF, SPF) called has not been enabled for processing.	
Remedy Enable	
Note Alarm is displayed with reference to channel	
2041 Program does not exist in memory Res	set key
Scan When specifying a program number and then pressing NC START	Set Key
Effect • Interlocking of NC START	
Machining stops	
 Explanation • The preselected program is not in the memory A non-existent subroutine is called in the main program The contour for the stock removal cycle does not exist Select "Overview" 	
Remedy	
Note Channel-specific	
2042 Parity error in memory Res	set key
Scan When executing a part program	-
Effect Interlocking of NC START Machining stops	
 Explanation One or more characters in the memory have been corrupted so that they can no longer be recognized These characters are displayed in the "Correction block" or in the part program under "Programming" 	as "?"
Remedy Clear part program block and re-enter	
Note Channel-specific	
2043 Program error in transformation Res	set key
Scan When executing a part program	-
Effect Interlocking of NC START Machining is interrupted	
 Explanation Programming actual axes with transformation selected Programming fictitious axes with transformation deselected Selecting transformation although transformation has already been selected Programming traversing movements in the selection block of transformation 	
Remedy • Correct program	

KemeayCorrect prograNoteChannel-specific

2044	Error execution external	Reset key
Scan	When starting a program from external	
Effect	NC START is interrupted	
Explanation	 The alarm is displayed When the selected program from external is already being processed in another channel When an interface (file transfer) is to be addressed in several channels When an interface is to be addressed which is already busy When an interface is to be addressed while an alarm is present When "Location receiver" or "Logical peer receiver" are unknown at the beginning of the file transfer that the beginning the file transfer the transfer that the beginning the file transfer that the transfer the transfer that the beginning the file transfer that the transfer t	sfer.
Remedy	 Check machine data 130* Check the active interfaces Check machine data 5148 – 5152 	
2046	Block > 120 characters	Reset key
Scan	When executing a part program	-
Effect	Interlocking of NC STARTMachining stops	
Explanation	An "L _F " in the memory is corrupted so that a block of more than 120 characters has resulted.	
Remedy	 Insert "L_F" without deleting the whole block 	
Note	Channel-specific	
2047	Option not available	Reset key
Scan	After presetting or programming a function which is not present	
Effect	Interlocking of NC STARTMachining stops	
Explanation	A function has been programmed which is not included in the function set of the control.	
Remedy	 Correct program Check NC machine data Have Service Dept. check function options 	
Note	Channel-specific	
2048	Circle end point error	Reset key
Scan	When processing a circle block in AUTOMATIC or MDA	
Effect	Interlocking of NC STARTMachining stops	
Explanation	The programmed circle end point is not on the circle.The end point is further out than the limit input in NC machine data "Circle end point monitoring"	
Remedy	Correct program	
Note	Alarm is displayed with reference to block and channel	
2049	Axis/spindle converter not available	Reset key
Scan	After presetting or programming the axis/spindle converter function which has not been implemented	Ł
Effect	 Interlocking of NC START Machining stops 	
Explanation		of the control.
Remedy	 Correct program Check NC–MD 	
	Have Service Dept. check function options	
Note	Alarm is displayed with reference to channel	

2050	Rotary axis path is too small with G98	Reset key
Scan	When executing a part program	
Effect	Machining stopsInterlocking of NC start	
Explanation	The traversed distance to go of the rotary axis in G98 is so small (or 0) that it is not possible to calcu feedrate for the linear axes to be traversed.	llate a path
Remedy	Check the programmed values in the block. If the rotary axis has to traverse a distance to go, path for should be used in this block.	eed (G94)
Note	Alarm is displayed with reference to channel	
2056	Travel through transformation center	Reset key
Scan	When executing a part program	
Effect	Interlocking of NC STARTMachining is interrupted	
Explanation	With TRANSMIT transformation selected, a part program block which brings about a movement dire the transformation centre has been programmed.	ctly through
Remedy	Check program	
	Check whether the function "Travel through transformation center" can be used.	
Note	Alarm is displayed with reference to block and channel	
2057	Thread/revolutional feedrate missing	Reset key
Scan	When executing a part program	
Effect	Machining is not started or is terminatedInterlocking of NC START	
Erläuterung		ented in the
	 control. Revolutional feedrate G95 has been programmed 	
	 With 840 T, the NC machine data "Revolutional feedrate" has not been set A program not included in the function set of the control has been programmed 	
Remedy	Check program	
	Check NC machine data	
	 Have function options upgraded. Alarm is displayed with reference to block and channel. 	
2058	3D interpolation missing	Reset key
Scan	When executing a part program	
Effect	 Machining stops Interlocking of NC START 	
Explanation	с. С	ted which may
Remedy	 Check program Have function option retrofitted if possible 	
Note	Alarm is displayed with reference to block and channel	
2059	Programming error with G92	Reset key
Scan	When executing a part program	
Effect	 Machining is not started or is terminated 	
	Interlocking of NC START	
Explanation	The unit and working diameter factor is ZERO	
Remedy	Check program blockCheck machine data	
Note	Alarm is displayed with reference to block and channel	

2060	Programming error with TO or ZO	Reset key
Scan	When executing a part program	
Effect	Machining is interruptedInterlocking of NC START	
Explanation	 Tool type is 0 (i.e. no tool) A tool offset number which is not present has been selected The values in the zero offsets or tool offsets selected are too large 	
Remedy	Check and correct specifications of tool offsets and zero offsetsCheck and correct program	
Note	Alarm is displayed with reference to block and channel	
2061	General programming error	Reset key
Scan	When executing a part program	
Effect	 Machining is stopped or is not started Interlocking of NC START 	
Explanation	-	on the input
Remedy	Check the program part and correct the incorrect settingCheck the input resolution selected	
Note	Alarm is displayed with reference to block and channel	
2062	Feed is missing	Reset key
Scan	When executing a part program	
Effect	Machining stopsInterlocking of NC START	
Explanation	 Revolutional feedrate G95 greater than 50 mm/min. has been programmed No revolutional feedrate has been programmed No feedrate value (F value) has been programmed Feedrate is missing for soft approach and retraction Setting in machine data MD 280* for max. speed of an axis has been given the value 0 	
Remedy	 Check settings in program block Check machine data settings Cancel alarm using RESET key 	
Note	Alarm is displayed with reference to block and channel	
2063	Thread pitch too large	Reset key
Scan	When thread cutting with G33	-
Effect	 Machining stops Interlocking of NC START 	
Explanation	5	eds the
Remedy	 Correct program block whose block number and channel number are specified in the alarm displ Cancel alarm using RESET 	ay
Note	Alarm is displayed with reference to block and channel	

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Reset key

2064	Wrong programming of rounding axis	Reset key
Scan	When executing a part program	
Effect	 Interlocking of NC START Programmed path is not exited Machining stops 	
Explanation	If a rotary axis is rounded to a half or whole degree, then the control monitors whether the rounding h maintained for the programmed positions.	as been
Remedy	 Program correct position in the rotary axis Check the machine data "Whole/half degree" and "Rotary axis" Check whether the interface signal "Clear distance to go" has been set, in which case no automa takes place. 	itic rounding
Note	In the JOG modes, the control automatically rounds to valid values. In AUTOMATIC or MDA, the con monitors the programmed positions without itself carrying out rounding.	trol only
Nata	Allows is discussed with as fore and to black and the small	

Note Alarm is displayed with reference to block and channel

Note	Alarm is displayed with reference to block and channel	
2065	Progr. position behind SW limit switch	Reset key
Scan	When executing a part program	
Effect	 Interlocking of NC START Programmed path is not traversed Machining stops 	
Explanation	The programmed end point of the block is beyond the software limit switch.	
Remedy	 Correct program Machine data "1st software limit switch plus" Machine data "1st software limit switch minus" Machine data "2nd software limit switch plus" Check machine data "2nd software limit switch minus" depending on the PLC interface signal "2 limit switch active" 	nd software
Note	Alarm is displayed with reference to block and channel	
2066	Thread increase/decrease too high	Reset key
Scan	When executing a part program	
Effect	Interlocking of NC STARTMachining stops	
Explanation	A thread or lead increase or decrease of more than 16 mm/revolution (0.6 inches/revolution) has been programmed.	
Remedy	Program smaller lead increase/decrease	
Note	Alarm is displayed with reference to block and channel	
2068	Position behind working area limitation	Reset key
2068 Scan	Position behind working area limitation When executing a part program	Reset key
	_	Reset key
Scan	 When executing a part program Interlocking of NC START Programmed path is not traversed Machining stops 	Reset key
Scan Effect	 When executing a part program Interlocking of NC START Programmed path is not traversed Machining stops 	Reset key

2069	5D tool length comp. not possible	Reset key
Scan	When executing a part program	
Effect	Machining is interrupted or not performedInterlocking of NC START	
Explanation	 Cutter radius compensation has been selected No linear interpolation has been selected Function is not enabled Machine data have been entered incorrectly Export version 	
Remedy	Check programCheck machine data	
Note	Alarm is displayed with reference to block and channel	
2070	5D interpolation missing	Reset key
Scan	When executing a part program	2
Effect	Machine stopsInterlocking of NC START	
Explanation	More than three axes have been programmed in one block in a program, or a function has been sele may result in additional axes from the programming, e.g. when specifying the coordinate rotation.	ected which
Remedy	Check programHave function option retrofitted if possible	
Note	Alarm is displayed with reference to block and channel	
2072	Wrong input value contour definition	Reset key
Scan	When working in AUTOMATIC or MDA	
Effect	 Machining is not performed or is terminated Interlocking of NC START 	
Explanation	When programming, an input which cannot be calculated was specified for contour definition calcula	ation.
Remedy	 Check program and correct input values Cancel alarm using "RESET" 	
Note	Alarm is displayed with reference to block and channel	
2073	No intersection contour definition	Reset key
Scan	When working in AUTOMATIC	-
Effect	Machining is not performed or is terminatedInterlocking of NC START	
Explanation	In calculating the contour definition with the programmed values, no intersection results.	
Remedy	Check program settingsCancel alarm using "RESET"	
Note	Alarm is displayed with reference to block and channel	
2074	Wrong angle value contour definition	Reset key
Scan	When working in AUTOMATIC or MDA	
Effect	Interlocking of NC STARTMachining stops	
Explanation	 Angle > or = 360 degrees has been programmed Value of angle for the contour described is meaningless 	
Remedy	Check and correct program settingsCancel alarm using "RESET"	
Note	Alarm is displayed with reference to block and channel	

2075	Wrong radius angle contour definition	Reset key
Scan	When working in AUTOMATIC or MDA	-
Effect	Interlocking of NC STARTMachining stops	
Explanation	Radius value too largeRadius value not permitted with the contour described	
Remedy	Check programCancel alarm using Reset	
Note	Alarm is displayed with reference to block and channel	
2076	Wrong G02/G03 contour definition	Reset key
Scan	When working in AUTOMATIC or MDA	
Effect	Interlocking of NC STARTMachining stops	
Explanation	Circle direction with the contour described is not possible	
Remedy	Correct programCancel alarm using "RESET"	
Note	Alarm is displayed with reference to block and channel	
2077	Wrong block sequence contour def	Reset key
Scan	When processing part programs in AUTOMATIC	
Effect	Machining is terminatedInterlocking of NC START	
Explanation	 In calculating the contour definition several blocks are required. Block sequence cannot be correct Inadequate information is available (under-defined) 	
Remedy	Check programCancel alarm using Reset	
Note	Alarm is displayed with reference to block and channel	
2078	Wrong input parameters contour def.	Reset key
Scan	When processing part programs in AUTOMATIC or MDA	
Effect	Machining stopsInterlocking of NC START	
Explanation	• Parameter sequence is incomplete with the contour described Example:	
	N10 X60 B15 L_F (Z axis missing N20 X90 B10 L_F	
Remedy	 Check program Cancel alarm using Reset 	
Note	Alarm is displayed with reference to block and channel	
2081	Block not allowed with TRC	Reset key
Scan	When processing in AUTOMATIC	-
Effect	Machining is stoppedInterlocking of NC START	
Explanation	With TRC selected, the following functions may not be programmed: G33, G34, G35, G58, G59, G92, @714 and all the functions that trigger an @714. e.g. G74, G200	
Remedy	Program G40 beforehandDeselection of TRC with G41, G42 D00	
Note	Alarm is displayed with reference to block and channel	

2082	TRC plane cannot be defined	Reset key
Scan	When processing a part program in AUTOMATIC	
Effect	Machining is stopped	
	Interlocking of NC START	
•	The axes of the TRC plane selected do not exist.	
Remedy	 Machine data "Abscissa for prog. G16" Machine data "Ordinate for prog. G16" 	
	Machine data "Applicate for prog. G16"	
	Select correct plane using G16	
Note	Alarm is displayed with reference to block and channel	
2002	Contour violation with TRC	Deeet key
2083 Scan		Reset key
Scan	When TRC is selected in AUTOMATIC Not: in the selection block in the deselection block	
Effect	A contour violation may have occurred on the workpiece. The program is continued if MD 5024, bit 0,	is set or
	machining is aborted. This also depends on whether the alarm has been acknowledged with the Acknowledgement key or t	he Reset key.
Explanation	The calculated compensation results in a direction of travel that is opposite to the programmed direction	on.
Remedy	Check the programDeselect the compensation at a suitable point and reselect	
Note	Alarm is displayed with reference to block and channel	
2087	Coordinate rotation/ZO not allowed	Reset key
2087 Scan	Coordinate rotation/ZO not allowed When working in AUTOMATIC or MDA	Reset key
	When working in AUTOMATIC or MDAInterlocking of NC START	Reset key
Scan Effect	 When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted 	
Scan	 When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted 	
Scan Effect	 When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted After selecting coordinate rotation (G54 to G59) a circular movement (G02, G03) was programmed 	ed in the follo- changed.
Scan Effect	 When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted After selecting coordinate rotation (G54 to G59) a circular movement (G02, G03) was programmed wing block. After selecting coordinate rotation (angle ≠ 0 degrees) the settable zero offset (G54 to G57) was of After selecting coordinate rotation (angle ≠ 0 degrees) the plane (G16, G17, G18, G19) was changed and correct program 	ed in the follo- changed.
Scan Effect Explanation	 When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted After selecting coordinate rotation (G54 to G59) a circular movement (G02, G03) was programmed wing block. After selecting coordinate rotation (angle ≠ 0 degrees) the settable zero offset (G54 to G57) was of After selecting coordinate rotation (angle ≠ 0 degrees) the plane (G16, G17, G18, G19) was channed. Correct program The plane can only be changed if the angle of rotation is 0 degrees. 	ed in the follo- changed.
Scan Effect Explanation	 When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted After selecting coordinate rotation (G54 to G59) a circular movement (G02, G03) was programmed wing block. After selecting coordinate rotation (angle ≠ 0 degrees) the settable zero offset (G54 to G57) was of After selecting coordinate rotation (angle ≠ 0 degrees) the plane (G16, G17, G18, G19) was channed. Correct program The plane can only be changed if the angle of rotation is 0 degrees. 	ed in the follo- changed. ged.
Scan Effect Explanation	 When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted After selecting coordinate rotation (G54 to G59) a circular movement (G02, G03) was programmed wing block. After selecting coordinate rotation (angle ≠ 0 degrees) the settable zero offset (G54 to G57) was of After selecting coordinate rotation (angle ≠ 0 degrees) the plane (G16, G17, G18, G19) was channed. Correct program The plane can only be changed if the angle of rotation is 0 degrees. The settable zero offset (G54 to G57) can only be changed if the angle of rotation is 0 degrees. 	ed in the follo- changed. ged.
Scan Effect Explanation Remedy	 When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted After selecting coordinate rotation (G54 to G59) a circular movement (G02, G03) was programmed wing block. After selecting coordinate rotation (angle ≠ 0 degrees) the settable zero offset (G54 to G57) was of After selecting coordinate rotation (angle ≠ 0 degrees) the plane (G16, G17, G18, G19) was chan Correct program The plane can only be changed if the angle of rotation is 0 degrees. The settable zero offset (G54 to G57) can only be changed if the angle of rotation is 0 degrees. Set angle of rotation in the settable zero offsets (G54 to G57) to 0 degrees and work only with G54 	ed in the follo- changed. ged.
Scan Effect Explanation Remedy Note 2160	 When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted After selecting coordinate rotation (G54 to G59) a circular movement (G02, G03) was programmed wing block. After selecting coordinate rotation (angle ≠ 0 degrees) the settable zero offset (G54 to G57) was of After selecting coordinate rotation (angle ≠ 0 degrees) the plane (G16, G17, G18, G19) was chan Correct program The plane can only be changed if the angle of rotation is 0 degrees. The settable zero offset (G54 to G57) can only be changed if the angle of rotation is 0 degrees. Set angle of rotation in the settable zero offsets (G54 to G57) to 0 degrees and work only with G54 Alarm is displayed with reference to block and channel 	ed in the follo- changed. ged.
Scan Effect Explanation Remedy Note 2160 Scan	 When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted After selecting coordinate rotation (G54 to G59) a circular movement (G02, G03) was programmed wing block. After selecting coordinate rotation (angle ≠ 0 degrees) the settable zero offset (G54 to G57) was of After selecting coordinate rotation (angle ≠ 0 degrees) the plane (G16, G17, G18, G19) was chan Correct program The plane can only be changed if the angle of rotation is 0 degrees. The settable zero offset (G54 to G57) can only be changed if the angle of rotation is 0 degrees. Set angle of rotation in the settable zero offsets (G54 to G57) to 0 degrees and work only with G54 Alarm is displayed with reference to block and channel 	ed in the follo- changed. ged. 88 and G59.
Scan Effect Explanation Remedy Note 2160	 When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted After selecting coordinate rotation (G54 to G59) a circular movement (G02, G03) was programmed wing block. After selecting coordinate rotation (angle ≠ 0 degrees) the settable zero offset (G54 to G57) was constrained and the set of th	ed in the follo- changed. ged. 88 and G59.
Scan Effect Explanation Remedy Note 2160 Scan Effect	 When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted After selecting coordinate rotation (G54 to G59) a circular movement (G02, G03) was programme wing block. After selecting coordinate rotation (angle ≠ 0 degrees) the settable zero offset (G54 to G57) was of After selecting coordinate rotation (angle ≠ 0 degrees) the plane (G16, G17, G18, G19) was chan Correct program The plane can only be changed if the angle of rotation is 0 degrees. The settable zero offset (G54 to G57) can only be changed if the angle of rotation is 0 degrees. Set angle of rotation in the settable zero offsets (G54 to G57) to 0 degrees and work only with G5 Alarm is displayed with reference to block and channel Illegal scale factor When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted The scale factor has exceeded the valid range of values:	ed in the follo- changed. ged. 88 and G59.
Scan Effect Explanation Remedy Note 2160 Scan Effect	 When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted After selecting coordinate rotation (G54 to G59) a circular movement (G02, G03) was programmed wing block. After selecting coordinate rotation (angle ≠ 0 degrees) the settable zero offset (G54 to G57) was of After selecting coordinate rotation (angle ≠ 0 degrees) the plane (G16, G17, G18, G19) was chan Correct program The plane can only be changed if the angle of rotation is 0 degrees. The settable zero offset (G54 to G57) can only be changed if the angle of rotation is 0 degrees. Set angle of rotation in the settable zero offsets (G54 to G57) to 0 degrees and work only with G5 Alarm is displayed with reference to block and channel Illegal scale factor When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted The scale factor has exceeded the valid range of values: + P is negative + P = 0 	ed in the follo- changed. ged. 88 and G59.
Scan Effect Explanation Remedy Note 2160 Scan Effect Explanation	 When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted After selecting coordinate rotation (G54 to G59) a circular movement (G02, G03) was programmed wing block. After selecting coordinate rotation (angle ≠ 0 degrees) the settable zero offset (G54 to G57) was of After selecting coordinate rotation (angle ≠ 0 degrees) the plane (G16, G17, G18, G19) was chan Correct program The plane can only be changed if the angle of rotation is 0 degrees. The settable zero offset (G54 to G57) can only be changed if the angle of rotation is 0 degrees. Set angle of rotation in the settable zero offsets (G54 to G57) to 0 degrees and work only with G5 Alarm is displayed with reference to block and channel Illegal scale factor When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted The scale factor has exceeded the valid range of values: + P is negative + P = 0 + P > 99.99999 	ed in the follo- changed. ged. 88 and G59.
Scan Effect Explanation Remedy Note 2160 Scan Effect	 When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted After selecting coordinate rotation (G54 to G59) a circular movement (G02, G03) was programmed wing block. After selecting coordinate rotation (angle ≠ 0 degrees) the settable zero offset (G54 to G57) was of After selecting coordinate rotation (angle ≠ 0 degrees) the plane (G16, G17, G18, G19) was chan Correct program The plane can only be changed if the angle of rotation is 0 degrees. The settable zero offset (G54 to G57) can only be changed if the angle of rotation is 0 degrees. Set angle of rotation in the settable zero offsets (G54 to G57) to 0 degrees and work only with G5 Alarm is displayed with reference to block and channel Illegal scale factor When working in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted The scale factor has exceeded the valid range of values: + P is negative + P = 0 	ed in the follo- changed. ged. 88 and G59.

Note Alarm is displayed with reference to block and channel

2161	Illegal coole medification Beact key
Scan	Illegal scale modification Reset key
Effect	When working in AUTOMATIC or MDA Interlocking of NC START
LIIECI	Machining is interrupted
Explanation	With a scale factor of \gg 1, an axis position was programmed which was so large that internal representation is no longer possible.
Remedy	 Check programmed axis position Reduce scale factor
Note	Alarm is displayed with reference to block and channel
2171	Approach not possible Reset key
Scan	When working in AUTOMATIC or MDA
Effect	Machining is interrupted
Explanation	 In the block after approach, no axis for the selected plane (G16, G17, G18, G19) has been programmed, so that a vector to the tangential approach cannot be calculated. In the selection block, or in the following block for soft approach, @714 has been programmed.
Remedy	 Correct program (G147, G247, G347), programming at least one axis of the selected plane in the block after the approach.
Note	Alarm is displayed with reference to block and channel
2172	Retraction not possible Reset key
Scan	When working in AUTOMATIC or MDA
Effect	Machining is interrupted
Explanation	 In the block before retraction no axis for the selected plane (G16, G17, G18, G19) has been programmed, so that a vector to the tangential exit cannot be calculated. In the deselection block or in the previous block @714 has been programmed G48 programmed without previous selection More than 5 axes are traversed in the deselection block because 1 axis has been added to the plane.
Remedy	• Correct program (G148, G248, G348, G48), programming at least one axis of the selected plane in the block before the retraction movement.
Note	Alarm is displayed with reference to block and channel
2173	Approach/retraction plane wrong Reset key
Scan	When executing a part program
Effect	Machining is interrupted
Explanation	 A plane change is programmed in the block after selection (G16, G17, G18, G19) A plane change is programmed in the deselection block
Remedy	Correct program (plane change)
Note	Alarm is displayed with reference to block and channel
2184	M fct. for C axis switchover not allowed CANCEL
Scan	Cyclic

Scan	Cyclic
Effect	None
Explanation	M function for C axis ON/OFF (MD 260, MD 261) has been given a value reserved by the system.
Remedy	Enter the correct value
Kenneuy	

1.5.1 Alarm description

2189	Transformation not defined	Reset key
Scan Effect	On transformation selection Interlocking of NC START	
LIIECI	Machining stops	
Explanation		
	The transformation axes are in different mode groups	
	 The option of selecting transformation is not available Transformation has been selected in an illegal channel 	
	Transformation is defined several times or wrongly	
	Transformation data block has been declared invalid by alarm 3087 (error in transformation data))
Remedy	Check transformation data block	
	Check programOrder option	
	Check channel number	
Note	Alarm is displayed with reference to block and channel	
24.00		Depet key
2190 Scan	Transformation axes assigned On transformation selection	Reset key
Effect	Interlocking of NC START	
	Machining stops	
Explanation	A transformation has been selected whose actual axes are also used in another channel in a parallel tion.	transforma-
Remedy	Wait until transformation is deselected in the parallel channelCheck program	
Note	Alarm is displayed with reference to block and channel	
2191	Troughours tion in rough	
		Pocot kov
	Transformation in zero	Reset key
Scan	On selecting transformation in AUTOMATIC or MDA	Reset key
Scan Effect	 On selecting transformation in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted 	Ĩ
Scan	 On selecting transformation in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted 	Ĩ
Scan Effect Explanation	 On selecting transformation in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted Transformation was selected at a time when one or more axes involved in transformation have the axis and the selected at a time when one or more axes involved in transformation have the axis and the selected at a time when one or more axes involved in transformation have the axis and the selected at a time when one or more axes involved in transformation have the axis and the selected at a time when one or more axes involved in transformation have the axis and the selected at a time when one or more axes involved in transformation have the axis and the selected at a time when one or more axes involved in transformation have the axis at the selected at a time when one or more axes involved in transformation have the axis at the selected at a time when one or more axes involved in transformation have the axis at the selected at a time when one or more axes involved in transformation have the axis at the selected at a time when one or more axes involved in transformation have the axis at the selected at a time when one or more axes involved in transformation have the axis at the selected at a time when one or more axes involved in transformation have the axis at the selected at a time when one or more axes involved in transformation have the axis at the selected at a time when one or more axes involved in transformation have the axis at the selected at a time when one or more axes involved in transformation have the axis at the selected at a time when one or more axes involved in transformation have the axis at the selected at a time when one or more axes involved in transformation have the axis at the selected at a time when one or more axes involved in transformation transformation the selected at a time when one or more axes involved in transformation transformation transformation transformation transformation transformation transformation transformation transformation transforma	Ĩ
Scan Effect Explanation Remedy	 On selecting transformation in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted Transformation was selected at a time when one or more axes involved in transformation have the ar ZERO. 	ctual position
Scan Effect Explanation	 On selecting transformation in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted Transformation was selected at a time when one or more axes involved in transformation have the at ZERO. When selecting TRANSMIT, the X axis (transverse axis) must not have the actual position ZERO. Before selecting transformation, set the actual axes of the transformation to be selected to permissib 	ctual position
Scan Effect Explanation Remedy	 On selecting transformation in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted Transformation was selected at a time when one or more axes involved in transformation have the az ZERO. When selecting TRANSMIT, the X axis (transverse axis) must not have the actual position ZERO. Before selecting transformation, set the actual axes of the transformation to be selected to permissib tions. (With TRANSMIT set the X axis to X ≠ 0) Alarm is displayed with reference to block and channel 	ctual position le actual posi-
Scan Effect Explanation Remedy Note	 On selecting transformation in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted Transformation was selected at a time when one or more axes involved in transformation have the az ZERO. When selecting TRANSMIT, the X axis (transverse axis) must not have the actual position ZERO. Before selecting transformation, set the actual axes of the transformation to be selected to permissib tions. (With TRANSMIT set the X axis to X ≠ 0) 	ctual position
Scan Effect Explanation Remedy Note 2192	 On selecting transformation in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted Transformation was selected at a time when one or more axes involved in transformation have the at ZERO. When selecting TRANSMIT, the X axis (transverse axis) must not have the actual position ZERO. Before selecting transformation, set the actual axes of the transformation to be selected to permissible. Following error comp. not possible 	ctual position le actual posi-
Scan Effect Explanation Remedy Note 2192 Scan	 On selecting transformation in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted Transformation was selected at a time when one or more axes involved in transformation have the az ZERO. When selecting TRANSMIT, the X axis (transverse axis) must not have the actual position ZERO. Before selecting transformation, set the actual axes of the transformation to be selected to permissible tions. (With TRANSMIT set the X axis to X ≠ 0) Alarm is displayed with reference to block and channel Following error comp. not possible At the beginning of a threading block, if the option has been selected. Machining is stopped and NC START is interlocked 	ctual position le actual posi-
Scan Effect Explanation Remedy Note 2192 Scan Effect	 On selecting transformation in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted Transformation was selected at a time when one or more axes involved in transformation have the az ZERO. When selecting TRANSMIT, the X axis (transverse axis) must not have the actual position ZERO. Before selecting transformation, set the actual axes of the transformation to be selected to permissible tions. (With TRANSMIT set the X axis to X ≠ 0) Alarm is displayed with reference to block and channel Following error comp. not possible At the beginning of a threading block, if the option has been selected. Machining is stopped and NC START is interlocked 	ctual position le actual posi-
Scan Effect Explanation Remedy Note 2192 Scan Effect Explanation	 On selecting transformation in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted Transformation was selected at a time when one or more axes involved in transformation have the at ZERO. When selecting TRANSMIT, the X axis (transverse axis) must not have the actual position ZERO. Before selecting transformation, set the actual axes of the transformation to be selected to permissible tions. (With TRANSMIT set the X axis to X ≠ 0) Alarm is displayed with reference to block and channel Following error comp. not possible At the beginning of a threading block, if the option has been selected. Machining is stopped and NC START is interlocked The servo gain (K _V) factors of the axes involved in thread cutting are too small.	ctual position le actual posi-
Scan Effect Explanation Remedy Note 2192 Scan Effect Explanation	On selecting transformation in AUTOMATIC or MDA • Interlocking of NC START • Machining is interrupted Transformation was selected at a time when one or more axes involved in transformation have the ar ZERO. When selecting TRANSMIT, the X axis (transverse axis) must not have the actual position ZERO. Before selecting transformation, set the actual axes of the transformation to be selected to permissible tions. (With TRANSMIT set the X axis to $X \neq 0$) Alarm is displayed with reference to block and channel Following error comp. not possible At the beginning of a threading block, if the option has been selected. Machining is stopped and NC START is interlocked The servo gain (K _V) factors of the axes involved in thread cutting are too small. Check the servo gain factors of the axes involved in thread cutting and correct if necessary–	ctual position le actual posi- Reset key
Scan Effect Explanation Remedy Note 2192 Scan Effect Explanation Remedy	 On selecting transformation in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted Transformation was selected at a time when one or more axes involved in transformation have the at ZERO. When selecting TRANSMIT, the X axis (transverse axis) must not have the actual position ZERO. Before selecting transformation, set the actual axes of the transformation to be selected to permissible tions. (With TRANSMIT set the X axis to X ≠ 0) Alarm is displayed with reference to block and channel Following error comp. not possible At the beginning of a threading block, if the option has been selected. Machining is stopped and NC START is interlocked The servo gain (K _V) factors of the axes involved in thread cutting are too small.	ctual position le actual posi-
Scan Effect Explanation Remedy Note 2192 Scan Effect Explanation Remedy 2193	On selecting transformation in AUTOMATIC or MDA • Interlocking of NC START • Machining is interrupted Transformation was selected at a time when one or more axes involved in transformation have the ac ZERO. When selecting TRANSMIT, the X axis (transverse axis) must not have the actual position ZERO. Before selecting transformation, set the actual axes of the transformation to be selected to permissib tions. (With TRANSMIT set the X axis to $X \neq 0$) Alarm is displayed with reference to block and channel Following error comp. not possible At the beginning of a threading block, if the option has been selected. Machining is stopped and NC START is interlocked The servo gain (K _V) factors of the axes involved in thread cutting are too small. Check the servo gain factors of the axes involved in thread cutting and correct if necessary– Wrong axis/spindle operation	ctual position le actual posi- Reset key
Scan Effect Explanation Remedy Note 2192 Scan Effect Explanation Remedy 2193 Scan	 On selecting transformation in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted Transformation was selected at a time when one or more axes involved in transformation have the at ZERO. When selecting TRANSMIT, the X axis (transverse axis) must not have the actual position ZERO. Before selecting transformation, set the actual axes of the transformation to be selected to permissible tons. (With TRANSMIT set the X axis to X ≠ 0) Alarm is displayed with reference to block and channel Following error comp. not possible At the beginning of a threading block, if the option has been selected. Machining is stopped and NC START is interlocked The servo gain (K_V) factors of the axes involved in thread cutting are too small. Check the servo gain factors of the axes involved in thread cutting and correct if necessary- When switching over from C axis to spindle Machining stops Interlocking of NC START 	ctual position le actual posi- Reset key
Scan Effect Explanation Remedy Note 2192 Scan Effect Explanation Remedy 2193 Scan Effect	 On selecting transformation in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted Transformation was selected at a time when one or more axes involved in transformation have the at ZERO. When selecting TRANSMIT, the X axis (transverse axis) must not have the actual position ZERO. Before selecting transformation, set the actual axes of the transformation to be selected to permissible tons. (With TRANSMIT set the X axis to X ≠ 0) Alarm is displayed with reference to block and channel Following error comp. not possible At the beginning of a threading block, if the option has been selected. Machining is stopped and NC START is interlocked The servo gain (K_V) factors of the axes involved in thread cutting are too small. Check the servo gain factors of the axes involved in thread cutting and correct if necessary- When switching over from C axis to spindle Machining stops Interlocking of NC START 	ctual position le actual posi- Reset key
Scan Effect Explanation Remedy Note 2192 Scan Effect Explanation Remedy 2193 Scan Effect Explanation	 On selecting transformation in AUTOMATIC or MDA Interlocking of NC START Machining is interrupted Transformation was selected at a time when one or more axes involved in transformation have the at ZERO. When selecting TRANSMIT, the X axis (transverse axis) must not have the actual position ZERO. Before selecting transformation, set the actual axes of the transformation to be selected to permissible tons. (With TRANSMIT set the X axis to X ≠ 0) Alarm is displayed with reference to block and channel Following error comp. not possible At the beginning of a threading block, if the option has been selected. Machining is stopped and NC START is interlocked The servo gain (K _V) factors of the axes involved in thread cutting are too small. Check the servo gain factors of the axes involved in thread cutting and correct if necessary– Wrong axis/spindle operation When switching over from C axis to spindle Machining stops Interlocking of NC START A spindle has been programmed in C axis mode or a C axis has been programmed in spindle mode	ctual position le actual posi- Reset key

2194	There is no FIFO	Reset key
Scan	After POWER ON or warm start	-
Effect	Function is not executedInterlocking of NC START	
Explanation	FIFO has been assigned to a channel but has not been activated.	
Remedy	 Correct program Check NC MD Have service personnel check the function option Have function option retrofitted 	
Note	Applies up to SW 2	
2195	Too many FIFO channels defined	Reset key
Scan	At POWER ON or warm restart	-
Effect	Interlocking of NC STARTMachining not possible	
Explanation	The FIFO memory can be assigned to a maximum of two channels	
Remedy	Check NC MD	
Note	Applies up to SW 2	
2260	Incorrect parameters "Ext. stop"	Reset key
Scan	When configuring G421–6.	
Effect	Machining stops	
Explanation	 Axis/spindle already involved in extended stopping and retraction. Axis/spindle already involved through G422/5/6 in extended stopping and retraction. 	
Remedy	Check and modify programming/parameterization.	
Note	Applies as from SW 4. Alarm is displayed with reference to channel	
2500	Program is being edited Acknow	owledgement key
Scan	At NC START	
Effect	Interlocking of NC STARTMachine stops	
Explanation	NC START calls a program which is in the process of being edited	
Remedy	Terminate editing	
2501	Program is being read-in Ackno	owledgement key
Scan	At NC START	
Effect	Function is not executedInterlocking of NC START	
	NC START calls a program which is in the process of being read in through the computer lin MMC.	nk or from disk from the
Remedy	Wait for the end of the read-in process	
2502	Program already exists	Reset key
Scan	When starting a program from external	
Effect	NC START is interrupted	
Explanation	 The alarm is displayed If a program with the same program no. as the program to be processed externally is al gram memory. 	ready in the part pro-
Remedy	Rename or delete the program which already exists	
Note	Channel-specific	

2503	Not enough memory available	Reset key
Scan	When starting a program from external	
Effect	NC START is interrupted	
Explanation	The alarm is displayedWhen the memory set in MD30 is not available for the program to be processed externally.	
Remedy	Make sufficient part program memory available (delete part programs)Lower value in MD30	
Note	Channel-specific	
2504	Emergency retract triggered	Reset key
Scan	Cyclic in the servo cycle when LINK_ON for the following axis (from servo).	
Effect	Machining interrupt interlocking of NC START: removal of Mode Group Ready	

 Effect
 Machining interrupt, interlocking of NC START; removal of Mode Group Ready.

 Explanation
 The threshold MD "Emergency retraction threshold" programmed for monitoring of synchronism has been exceeded and emergency retraction triggered.

 Prerequisite:
 Enable by means of PLC IS "Emergency retraction enabled".

 Remedy
 Inspect the drives; check the velocity and acceleration limit values of the following axis/spindle; check the emergency retraction threshold; check the link factors.

Note Applies as from SW 3. Alarm is displayed with reference to channel

2505 Error in NCK FB

Scan	During cyclic operation of control
Effect	Interlocking of NC START Follow–up mode Removal of Mode Group Ready Interruption of machining
Explanation	The machine data for the SGE/SGA input/output allocations (46000 – 47999) have been entered incorrectly. The incorrect MD No. is output in the alarm as block no. Nxxxxx.
Remedy	Correct the indicated machine data.
Continuation	No program can be started. Acknowledge alarm by RESET.
Note	 The alarm 2505 is only output if configured correspondingly by the machine manufacturer. An error has ocurred in the Safety–NCK–FB. For explanation and remedy, please refer to the machine manufacturer's doc- umentation.

• Applies as from SW 5.4

2506 Extended function outp. in target block

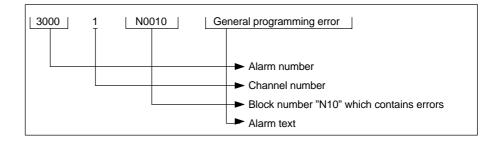
Scan	During block preprocessing in AUTOMATIC or MDA
Effect	Interlocking of NC–START
Explanation	The target block during block preprocessing cannot be a G511/G522 block, as the output of accumulated miscella- neous functions and the extended output of the G511/G522 block collide functionally.
Remedy	Select another target block.
Note	Channel-specific reset alarm (as from SW 5.4), alarm is displayed with reference to channel

3000 General programming error

Explanation • A general programming error which cannot properly be explained has been made in one block in the program.
 Division by 0

- A G function which does not exist has been programmed
- An R parameter which does not exist has been programmed
- No +,-, I," has been programmed in the R parameter chaining
- Range of values has been exceeded with R parameter calculation
- No M19 function allowed with active G96 "Constant cutting rate"
- Number of decades exceeded (M, S, T, D, H, L, P, F)
- Subroutine number of passes P not programmed directly behind L
- Main block ":" programmed in subroutine
- Two decimal points programmed
- Decimal point programmed with M, S, T, D, H, L, P
- More than 8 decades programmed
- The programmed axis values exceed the travel range limits with the set input resolution
- Auxiliary functions D, F, S or T are programmed with a minus sign.
- SW 3 and higher, block search to a spline interpolation coefficient block
- The F word in G501 exceeds the value range or is negative.
- Remedy
- Check the incorrect block in the "Correction block" display
 The cursor is placed on the incorrect word, if possible
- The block number of the incorrect block is positioned behind the alarm number in the alarm line.
 - Correct the F word accordingly.

Example:



Note Alarm is displayed with reference to channel

Acknowledgement key

3001	Number of geometry parameters > 5	Acknowledgement key
Scan	When executing a part program	
Effect	Machining stops	
Explanation	 More than 2 radii or more than 2 angles have been programmed in the block More than 5 geometry parameters such as axes, interpolation parameters, radii programmed in the block 	ii, angles, etc. have been
Remedy	 Check the faulty block in the "Correction block" display If possible the cursor is positioned in front of the faulty word The number of the faulty block is after the alarm number in the alarm line Example: 3000 1 N0010 General programming error 3000 - Alarm number 1 - Channel number N0010 - Block number "N10" containing errors. 	
Note	Alarm is displayed with reference to block and channel	
3002	Polar coordinates/radius error	Acknowledgement key
Scan	When executing a part program	
Effect	Machining stopsInterlocking of NC START	
Explanation	 When programming circle/radius, full circle programmed. For cylindrical interpolation if: Calculated interpolation parameters in the C axis are too large or P factor i P factor or axial distance to go of the rotary axis for cylindrical interpolation 	
Remedy	 Check the faulty block in the "Correction block" display If possible the cursor is positioned in front of the faulty word The number of the faulty block is after the alarm number in the alarm line 	

3003	Invalid address programmed Acknowledgement key
Scan	When executing a part program
Effect	Machining stops
Explanation	An address has been programmed other than that entered in NC machine data. The error can also occur when invalid values for G functions are entered in the channel-specific MD as from 108* (delete position specification for G channel-specific functions). Example: Wrong: N20 G0 C100 L _F (rapid traverse for fourth axis) However, the fourth axis is defined by the address Q in the NC machine data. Correct: N20 G0 Q100 L _F
Remedy	 Check the faulty block in the "Correction block" display If possible, the cursor is positioned in front of the faulty word The number of the faulty block is after the alarm number in the alarm line
Note	Alarm is displayed with reference to block and channel
3004	Error in CL800 programming Acknowledgement key
Effect Explanation	Machining stops
	 Machining stops Incorrectly entered characters (09 and af are possible) @ number is greater than the decades for a text-type message @ number or @ function not implemented with SINUMERIK 840 @ number or @ function cannot be programmed in CL800 or are not defined Input errors with address letters and numerical values Incorrect address letters (K, R and P are permitted) Number of decades too high (max. K 4 decades permitted) Number of decades too high (max. R 4 decades permitted) Number of decades too high (max. R 4 decades permitted) Number of decades too high (max. R 4 decades permitted) Number of decades too high (P 4 decades permitted) R parameter number not defined or too high Point programmed in R parameter number Point programmed in R parameter number Incorrect number of words Input errors with specific @ functions: Program branching Error in the block number (programmed point, block number greater than four decades) Data transfer system line – R parameter Constant or R parameter contents programmed too large for information such as: axis number, channel number, TO area, NC/PLC machine data, NC setting data, D number, P number, group for zero offsets, preset "COARSE/FINE" alarm number Bit number too large (0 to 7 are permitted) System line non-existent Incorrect value input for system line Mathematical and logical functions Value selected too high for square root (+/-00 000 0199 999 99 permitted) Incorrect angle selected for sine (-380 (0) + 360 permitted) Two constants used for: Angle from two vector components, OR, EXOR, AND, NAND Incorrect characters input for logical functions (0, 1 permitted)
	 (Only bits and bytes) (max. eight bits) NC specific functions Incorrect address letter used for number of axes Number of axes selected too high (max. 3 axes permitted per block)
	 No axis name programmed (0)
Note	Alarm is displayed with reference to block and channel

_		
3005	Error in contour definition Ac	knowledgement key
Scan	When executing a part program	
Effect	Machining stops	
Explanation	 The coordinates in the contour description have been defined so that there is no interse Too many geometry values have been programmed 	ection.
Remedy	 Check the faulty block in the "Correction block" display If possible the cursor is positioned in front of the faulty word The number of the faulty block is after the alarm number in the alarm line 	
Note	Alarm is displayed with reference to block and channel	
3006	-	knowledgement key
Scan	When executing a part program	
Effect	 Machining stops Interlocking of NC START 	
Explanation	 Approach to reference point with program and specification of the wrong G function an impermissible axis. Wrong thread lead parameters with G33 More than 3 M functions in the block More than 1 S function in the block More than 1 T function in the block More than 1 T function in the block More than 1 H function in the block More than 4 auxiliary functions in the block More than 6 axes + geometry parameters More than 5 axes with G00, G01, G02, G03 More than 5 axes with G10, G11, G12, G13, G110, G111, G112 More than one radius/angle with G10, G11, G12, G13, G110, G111, G112 Negative radius with G10, G11, G12, G13, G110, G111, G112 First programming of polar coordinates G10, G11, G12, G13 or angle/radius More than two axes with G02, G03 (circle radius programming) G04 programmed with addresses other than X, F or S G04 is not programmed in the block by itself M19 S is programmed with other functions Incorrect circle parameters with G02, G03 axes Axis missing with circle radius programming Before the first G110 block in the program, a G10/G11 block must have been programed in the program and g110 block must have been programed in the program and g110 block must have been programed in the program and g110 block must have been programed before the first G110 block in the program and g110 block must have been programed in the program and g110 block must have been programed before the first G110 block in the program and g10/G11 block must have been programed before the fore the first G110 block in the program and g170 block must have been programed before the first G110 block in the program of g110 may not be programmed with axes Incorrect programming in connection with G176 freeze function Either too few measured value memories or none at all have been defined for G720 	ammed

Either too few measured value memories or none at all have been defined for G720/721/722 via the flexible memory configuration

- On G511/G522
 An F word does not immediately follow G511/G522
 G511/G522 is superfluous, because neither a miscellaneous function nor a program coordination command or an F word output to the PLC is programmed.

Remedy Check the faulty block in the "Correction block" display •

- If possible the cursor is positioned in front of the faulty word
- The number of the faulty block is after the alarm number in the alarm line .
- Re G511/G522

Place the F word immediately after G511/G522 Delete G511/G522 F... _

Note Alarm is displayed with reference to block and channel

3007	Error in programming setting data	Acknowledgement key
Scan	When executing a part program	
Effect	Machining stops	
Explanation	 M19 without S word Spindle not present Illegal setting data programmed, e.g. G92 X Y, G92 D, T, A, I, J Error in parameterization of handwheel pulse weighting for G27 (SD 564*) 	
Remedy	 Check the faulty block in the "Correction block" display If possible the cursor is positioned in front of the faulty word The number of the faulty block is after the alarm number in the alarm line 	
Note	Alarm is displayed with reference to block and channel	
3008	Subroutine error	Acknowledgement key
Scan	When executing a part program	
Effect	Machining stops	
Explanation	 M17 not in the subroutine M02, M30 in the subroutine M17 in the main program More than 8 subroutine levels 	
Remedy	 Check the faulty block in the "Correction block" display If possible the cursor is positioned in front of the faulty word The number of the faulty block is after the alarm number in the alarm line SW 3 and higher, number of permissible subroutine levels exceeded Subroutine call in the block with M2, M30 or M17 From SW 5 subroutines and main programs can be terminated with M02, M17 	and M30.
Note	Alarm is displayed with reference to block and channel	
3009	Program disabled	Acknowledgement key
Scan	 On NC START, or when editing a program during machining 	0 /
Effect	Machining stops	
Explanation	 Pressing "NC START" calls a program which was disabled by being opened, b a program is being edited it may not be called by "NC START". 	y "Copy" or by "Rename". While
Remedy	Once editing is complete, the locked program must be enabled.	
Note	Alarm is displayed with reference to block and channel	
3010	Intersection error	Acknowledgement key
Scan	When executing a part program	
Effect	Machining stops	
Explanation	 A mistake has been discovered during reference processing in conjunction with the Possible causes are: Contour program without G00, G01, G03 Contour program with "Empty buffer memory" (@714) Programmed axes are not the same as the plane selected No intersection found Stock removal path circular R parameter number not available 	e calculation of intersection.
Remedy	Check program in which contour is stored.	
Noto	Alarma is displayed with reference to black and showed	

Note

Alarm is displayed with reference to block and channel

3011	Axis twice or too many axes	Acknowledgement key
Scan	When executing a part program	
Effect	Machining stops	
Explanation		
Remedy	 Check the faulty block in the "Correction block" display If possible the cursor is positioned in front of the faulty word The number of the faulty block is after the alarm number in the alarm line 	
Note	Alarm is displayed with reference to block and channel	
3012	Block does not exist in memory	Reset key
Scan	On block search or jumps in the part program	-
Effect	Machining stopsInterlocking of "NC START"	
Explanation	 On block search, the block number is not available in the program. On jumping in the program, the programmed block number cannot be four Program which does not conclude with M30, M17 The alarm is displayed if a forward jump has been programmed outside the maximum memory external". (The target of the jump cannot be read in to the available me when backward jumps or jumps to the present block location have been 	y area with "Execution from emory area)
Remedy	 Check the part program as regards the correct block number target or the M30/M02 or M17. Increase maximum memory for "Execution from external" (MD 30) Reduce jump distance Delete backward jumps or jumps to the present block location. 	
Note	Alarm is displayed with reference to block and channel	
3014	Axis disabled in channel	Acknowledgement key
Scan	When executing a part program	
Effect	Machining stops	
Explanation	The programmed axis is disabled for this channel by means of the NC machin 2, 3 or 4".	e data "Axis not valid for channel 1,
Remedy	Observe the programming notes of the machine manufacturer.Correct machine data if necessary.	
Note	Alarm is displayed with reference to block and channel	
3015	Main block not in memory	Acknowledgement key
Scan	On automatic block search	
Effect	Processing is not started	
Explanation	-	search.
Remedy	 Check target block Use another block search 	
Noto	Ohannahan ar 'f' a	

 Note
 Channel-specific Applies up to SW 2 only

3016	Error in external data input	Acknowledgement key
Scan	On entering data from the PLC to the NC	Acknowledgement key
Effect	Machining stops	
	 With external data input from PLC and NC: The code is incorrect The value is too high 	
	The dimension ID is not valid	
Remedy	Check PLC program	
3017	Part program available twice	Acknowledgement key
Scan	At POWER ON	
Effect	Machining stops	
Explanation	The UMS contains a part program which is already stored in the part program mem ID).	nory of the NC (with the same
Remedy	Delete or rename the program in the part program memoryUse a different UMS	
Note	Applies up to SW 2 only	
3018	Distance to contour too large	Acknowledgement key
Scan	• With AUTO interrupt in the circle block and travelling away from the point of inter-	erruption
Effect	Machining stopsAdditional alarm 2048	
Explanation	If AUTOMATIC mode is interrupted while processing a circle block and the axes are example for tool change, outside the permissible tolerance for reapproach (scratch red. To prevent incorrect positioning, the additional alarm 2048 – circle end point er Reapproach is only possible after a Reset.	ing) (MD9), this alarm is trigge-
Remedy	Cancel alarms and perform a block search as far as the point of interruption. If neo MD9 setting can be made larger.	cessary, check whether the
Note	Alarm is displayed with reference to channel	
3019	Target block within coupled motion	Acknowledgement key
Scan	When using the function "Block search"	
Effect	None	
Explanation	The target block is within the programmed coupled motion function. In the case of the it is possible that the ZO, TRC components and progr. paths are not assigned correctly and the correctly of the components and progr.	
Remedy	Prevent block search target for blocks with active coupled motion or check distance	es to go for block search!
3020	Option not available	Acknowledgement key
Scan	On specifying a non-existent function	
Effect	Function is not processed	
Explanation	A function not included or not enabled in the control has been programmed or select	cted.
Remedy	Have function option retrofitted or set function enable bit.	
NI-1-		

Note Alarm is displayed with reference to channel

3021	Contour violation with tool radius comp.	Acknowledgement key
Scan	When executing a part program, with active TRC	, control goment hey
ooun	Not:	
	In the selection block	
	In the deselection block	
Effect	A contour violation has occurred on the workpiece. The program is continued, never The alarm can be cancelled with the acknowledge key.	ertheless (see MD 5024, bit 0).
Explanation	 The contour calculation results in a traversing movement which is opposite to th (e.g. when machining an internal circle, where the milling radius is larger than t Between two blocks in the TRC plane, too many blocks have been programme also Programming Guide, Section 11.11). In this case, the block number displa outside the TRC plane. 	he circle radius). d outside the TRC plane (see
Remedy	 Check programming. Deselect correction at a suitable point and select it again. Check tool used against specifications (tool radius too large?). 	
Note	 Alarm is displayed with reference to channel In the case of an error, the block number indicated refers to the 4th block outsid (TRC). See Programming Guide Section 11.1. 	de the compensation plane
3022	Too many spindles programmed	Reset key
Scan	 When executing part program blocks in AUTOMATIC or MDA 	
Effect	Function is not executed	
Explanation	Only one spindle may be programmed in any one part program block.	
Remedy	Divide spindle programming into two or more blocks.	
3023	Wrong spindle position in setting data	Reset key
Scan	The alarm is output if M19 is programmed without an S value with MDA or in a part is set in the spindle setting data for oriented spindle stop (M19).	program and if an illegal value
Effect	 Interlocking of NC START Machining stops 	
Explanation		р (M19).
Remedy	Enter legal value in setting data permissible range 0 – 359.99	
3024	Display description missing	Acknowledgement key
Scan	On display selection	
Effect	Selected display does not appear	
Explanation		ailable in the UMS or system
Remedy	With the aid of the NC workstation, the programmed display number and softkey fu	nction must be checked.
3025	Display description has errors	Acknowledgement key
Scan	On display selection	
Effect	Selected display does not appear	
Explanation		
	 The programmed display type is unknown Block increment for the extended table display is incorrect (must always be 1 for 	or absolute display)
Remedy	Check the display description with the NC workstation, in particular the information format.	

3026	Fixed-text component too large	Acknowledgement key
Scan	On display selection via softkey	
Effect	Not all fixed texts are displayed	
Explanation	The programmed fixed text part in the display description is too large.	
Remedy	Using the NC workstation, reduce the fixed text part of the display or split up the o	contents over several displays.
3027	Graphics section too large	Acknowledgement key
Scan	On display selection	
Effect	No graphics display	
Explanation	The programmed graphics part in the display description is too large (max. 4 Kbytes).	
Remedy	Using the NC workstation, reduce the fixed text part of the display or split up the o	contents over several displays.
3029	Window beyond configuring area	Acknowledgement key
Scan	On display selection	
Effect	Display build-up is aborted when the window of a display being configured is outsi	ide the configuring area.
Explanation	Additional subdisplays can be configured in a screen. The subdisplay windows ca area. As a result the window may have been moved outside the configuring area	n be moved in the configuring \rightarrow configuring error.
Remedy	Configure the window movement so that it does not leave the configuring area (see	ee also alarm 3037).
3030	Cursor memory not available	Acknowledgement key
Scan	On display selection	
Effect	The display selected is treated as though there were no cursor memory.	
Explanation	The cursor memory programmed in the selected display is incorrect (illegal number	er, or too large).
Remedy	Redefine cursor memory with NC workstation, since the cursor memory has the to of putting the cursor back where it was when the display was removed.	ask, when a display is recalled,
3031	Too many part programs	
3031 Scan	Too many part programs On display selection	
_		
Scan	On display selection Slower display build-up and processing time may result.	ogram parts
Scan Effect	On display selection Slower display build-up and processing time may result.	o 1
Scan Effect Explanation	On display selection Slower display build-up and processing time may result. The configuring engineer has called up too many display descriptions with part pro Only incorporate a maximum of 5 part programs in the display descriptions if poss	o 1
Scan Effect Explanation Remedy	On display selection Slower display build-up and processing time may result. The configuring engineer has called up too many display descriptions with part pro Only incorporate a maximum of 5 part programs in the display descriptions if poss acknowledged as it is only for information.	o 1
Scan Effect Explanation Remedy Note	On display selection Slower display build-up and processing time may result. The configuring engineer has called up too many display descriptions with part pro Only incorporate a maximum of 5 part programs in the display descriptions if poss acknowledged as it is only for information. Applies to SW 1 only	ible. The alarm need not be
Scan Effect Explanation Remedy Note 3031	On display selection Slower display build-up and processing time may result. The configuring engineer has called up too many display descriptions with part pro Only incorporate a maximum of 5 part programs in the display descriptions if poss acknowledged as it is only for information. Applies to SW 1 only Error: NCK softkey text to MMC	ible. The alarm need not be
Scan Effect Explanation Remedy Note 3031 Scan Effect	On display selection Slower display build-up and processing time may result. The configuring engineer has called up too many display descriptions with part pro Only incorporate a maximum of 5 part programs in the display descriptions if poss acknowledged as it is only for information. Applies to SW 1 only Error: NCK softkey text to MMC • When selecting the menu	ible. The alarm need not be
Scan Effect Explanation Remedy Note 3031 Scan Effect	On display selection Slower display build-up and processing time may result. The configuring engineer has called up too many display descriptions with part pro Only incorporate a maximum of 5 part programs in the display descriptions if poss acknowledged as it is only for information. Applies to SW 1 only Error: NCK softkey text to MMC • When selecting the menu • The softkey text is not displayed	ible. The alarm need not be
Scan Effect Explanation Remedy Note 3031 Scan Effect Explanation	On display selection Slower display build-up and processing time may result. The configuring engineer has called up too many display descriptions with part pro Only incorporate a maximum of 5 part programs in the display descriptions if poss acknowledged as it is only for information. Applies to SW 1 only Error: NCK softkey text to MMC • When selecting the menu • The softkey text is not displayed An error has occurred while transferring the softkey text from NCK to MMC. Activate notebook for I code and send message to	ible. The alarm need not be
Scan Effect Explanation Remedy Note 3031 Scan Effect Explanation Remedy	On display selection Slower display build-up and processing time may result. The configuring engineer has called up too many display descriptions with part pro- Only incorporate a maximum of 5 part programs in the display descriptions if poss acknowledged as it is only for information. Applies to SW 1 only Error: NCK softkey text to MMC • When selecting the menu • The softkey text is not displayed An error has occurred while transferring the softkey text from NCK to MMC. Activate notebook for I code and send message to System support together with notebook entry (system program change required)	ible. The alarm need not be
Scan Effect Explanation Remedy Note 3031 Scan Effect Explanation Remedy Note	 On display selection Slower display build-up and processing time may result. The configuring engineer has called up too many display descriptions with part processing time may result. Only incorporate a maximum of 5 part programs in the display descriptions if posse acknowledged as it is only for information. Applies to SW 1 only Error: NCK softkey text to MMC When selecting the menu The softkey text is not displayed An error has occurred while transferring the softkey text from NCK to MMC. Activate notebook for I code and send message to System support together with notebook entry (system program change required) Applies as from SW 2 	Acknowledgement key
Scan Effect Explanation Remedy Note 3031 Scan Effect Explanation Remedy Note 3032	 On display selection Slower display build-up and processing time may result. The configuring engineer has called up too many display descriptions with part processing time may result. Only incorporate a maximum of 5 part programs in the display descriptions if poss acknowledged as it is only for information. Applies to SW 1 only Error: NCK softkey text to MMC When selecting the menu The softkey text is not displayed An error has occurred while transferring the softkey text from NCK to MMC. Activate notebook for I code and send message to System support together with notebook entry (system program change required) Applies as from SW 2 Variable component too large	Acknowledgement key
Scan Effect Explanation Remedy Note 3031 Scan Effect Explanation Remedy Note 3032 Scan	 On display selection Slower display build-up and processing time may result. The configuring engineer has called up too many display descriptions with part propriate a maximum of 5 part programs in the display descriptions if poss acknowledged as it is only for information. Applies to SW 1 only Error: NCK softkey text to MMC When selecting the menu The softkey text is not displayed An error has occurred while transferring the softkey text from NCK to MMC. Activate notebook for I code and send message to System support together with notebook entry (system program change required) Applies as from SW 2 Variable component too large When selecting a display with a softkey 	Acknowledgement key
Scan Effect Explanation Remedy Note 3031 Scan Effect Explanation Remedy Note 3032 Scan Effect	 On display selection Slower display build-up and processing time may result. The configuring engineer has called up too many display descriptions with part processing incorporate a maximum of 5 part programs in the display descriptions if posse acknowledged as it is only for information. Applies to SW 1 only Error: NCK softkey text to MMC When selecting the menu The softkey text is not displayed An error has occurred while transferring the softkey text from NCK to MMC. Activate notebook for I code and send message to System support together with notebook entry (system program change required) Applies as from SW 2 Variable component too large When selecting a display with a softkey None 	Acknowledgement key

3033 Scan Effect Explanation Remedy	 There is no display text Cyclic Display text not displayed The display text generated at the NC workstation has not been transferred to the I Check the link list and relink to the NC workstation; watch out for linking errors. 	Acknowledgement key
3034	There is no special text	Acknowledgement key
Scan	On display selection	
Effect	Special text not displayed	
Explanation	 The following texts have not been inserted or have been inserted incorrectly: Menu texts Dialog texts Mode texts 	
Remedy	Check the display generated with NC workstation and where appropriate regenerated	ate.
3035 Scan	Indirect addressing faulty Cyclic 	Acknowledgement key
Effect	Variable values/texts not displayed	
Explanation	 The display description for indirect addressing is incorrect. This affects the defineader for data group, data type, data number and data block. Information for number of indirect elements of the list/display (IEL) is incorrect Variable text is selected but status or offset is not cancelled. Variable value has been selected but status not cancelled. 	
Remedy	 Check the information for Start of range pointer, Length of range pointer and Cursor pointer and check their relationship to one another 	

3036 Variable status faulty	
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		,	0	
Scan	•	Cyclic		
Effect	٠	Status taken from display description		
Explanation		he display description form variable status, which can only be selected by the PLC, an incorrec en specified or variable status has not been cancelled.	t data group l	has
Remedy	The	e display description must be modified with the aid of the NC workstation.		

3037	User window faulty	Acknowledgement key
Scan	On control power-up	
Effect	Displays to be shown in incorrect user windows are not displayed.	
Explanation	User windows can be defined in the UMS. These must lie within the configuring are	ea, otherwise an alarm is given.
Remedy	Check and correct user window in the UMS.	

Acknowledgement key

Acknowledgement key

Display build-up is aborted with the display that is repeatedly called in the same path.

3038

Scan

Effect

Double call of display

On selecting the display

3044	Error: NCK display update to MMC	Acknowledgement key
Scan	Cyclic	
Effect	No dynamic display parts are displayed	
Explanation	An error has occurred during transmission of dynamic display parts such as var MMC.	iable values/texts from the NCK to
Remedy	Activate notebook for I code and send message together with notebook entry to System Support (system program change required)	
3045	Error: NCK fixed graphics to MMC	Acknowledgement key
Scan	On selecting the display	
Effect	Not all fixed graphics parts of the display description are shown on the scree	
	An error has occurred during transmission of the graphics part of the display from	n NCK to MMC.
Remedy	Activate notebook for I code and send message together with notebook entry to System Support (system program change required)	
3046	Faulty variable	Acknowledgement key rom SW 5.4: POWER ON
Scan	On selecting the display	
Effect	Not all variable values/texts are displayed	
Explanation	In the display description, a variable text has been programmed without an end the NC workstation software. This produces a transfer format error.	identifier because of an error in
Remedy	Check NC workstation The error must be at the point of interruption of the subsequent elements whi	ich are no longer displayed.
3047	Read data selector from harddisk	Acknowledgement key rom SW 5.4: POWER ON
Scan	 Cyclic if there is no response from the MMC approximately 5 seconds after to data selector. 	he harddisk has requested the
Effect	The data selector does not switch over to the disk directory.	
Explanation		harddisk.
Remedy	Switch the control off and then on again.	
3061	Processing sections cannot be loaded	Acknowledgement key
Scan	When processing a program with execution from external in AUTOMATIC while r	eloading a section
Effect	Processing stops	
Explanation	The program section which is to be read in no longer fits in the circular buffer for	
Remedy	The program can be continued with NC START although processing may be inte loaded. Increase the size of the circular buffer for execution from external	rrupted when the program is re-
Note	Applies to SW 2 only	
11010		
3072	Alarm text not available	Acknowledgement key
Scan	If an alarm occurs without alarm text	
Effect	• None	
Explanation	 When generating cycles, alarms have been provided for which no text was p NC alarms which are not provided with a text in the system have been trigge 	•
Remedy	Look at the complete listing of alarm displays and check off alarm numbers withc With cycle alarms, program an appropriate text. With system alarms, notify your Systems Support.	but text.
Note	Applies to SW 1 only	

3073	Error: NCK input line to MMC	Acknowledgement key
Scan	On input	
Effect	Input line is not displayed	
Explanation	An error has occurred during transmission of the input line from NCK to MMC.	
Remedy	Activate notebook for I code and send message together with notebook entry to System Support (system program change required)	
3081 Scan Effect	 CRC not selected at approach/retraction When executing a part program Machine stop does not occur but the program is executed without the approach e 	Acknowledgement key
Explanation	 CRC/TNRC (G41/G42) was not selected in or before the approach block. CRC/TNRC was not deselected in or after the exit block. Soft approach/exit is only possible when CRC/TNRC is selected because it is the programmed compensation movement exactly. 	only then possible to calculate
Remedy	 Correct program (G41/G42) Program with G41/G42 DO if necessary 	

Alarm is displayed with reference to block and channel

3084	Illegal working area limitation Acknowledgement key
Scan	Cyclic
Effect	The control automatically enters the maximum possible value in accordance with the traversing range in the wor- king area limitation.
Explanation	A value outside the permissible traversing area of the respective axis has been entered in the minimum or maximum axis-specific working area limitation.
Remedy	 Check input Check program (G25, G26, @) For maximum traversing range, refer to table (combination of axis-specific position control resolution and input resolution)
Note	Channel-specific Applies up to SW 2 only
3085	NC-CPU time watchdog Acknowledgement key
3085 Scan	NC–CPU time watchdog Acknowledgement key • Cyclic
Scan	 Cyclic Interlocking of NC START Interlocking of Mode Group Ready Interlocking of machining Interlocking of NC Ready relay

Note Channel-specific

3086 Illegal transformation selection

- Scan On selecting or deselecting transformation via the command channel of the PLC ٠
- Effect ٠ Interlocking of NC Start

Explanation An illegal value has been transferred from the PLC via the command channel. Evaluation is in the error byte in the PLC.

Remedy Check PLC user program

Note

Acknowledgement key

Error in transformation data

3087

5007			Acknowledgement key
Scan	•	At POWER ON On warm restart	
Effect	•	Selected transformation data block is locked	
Explanation	An chi	NC machine data with an illegal value is present in the selene data number is entered in the block number of alarm 308	ected transformation data block. The invalid NC ma- 87.
Remedy	•	Check NC machine data for transformation data (block nu	mber of alarm 3087)
Note	Ala	rm is displayed with reference to block and channel	
3088		collapse at block change	Acknowledgement key
Scan	Pro	cessing in a channel with FIFO memory	
Effect	No	ne	
-	The	e programmed feedrate is too high. The control has not yet	prepared the next block for processing.
Remedy	•	Decrease feedrate	
	•	Program G171 (to bridge the critical point with a rapid bloc	ck change)
3091	Re	duction on SW prelimit switch	Acknowledgement key
Scan	•	In AUTOMATIC or MDA when processing a part program	block or when positioning the axes in JOG
Effect	•	Speed reduction to the value set in the machine data	
Explanation		e software prelimit switch has been exceeded and the axis	
	lf a mit	position behind the software prelimit switch is taken with raswitch" is not output. But the reduction is executed.	apid traverse G00, the alarm "Reduction on SW preli-
Remedy	•	Check the traversing block	
	•	Check value in NC machine data 1100 "Prelimit switch" Position axis beyond the prelimit switch range and cancel	the alarm by means of "Acknowledgement"
2000	0		A also availa data availa d
3092	Sp	ecified velocity too high	Acknowledgement key
Scan	•	When traversing by the program in AUTOMATIC or MDA	
Effect	•	Machining stops	
Explanation	the	e specified speed (either programmed or by setting an over maximum speeds of the axes	ride) is greater than the path speeds resulting from
		a circle block, the path velocity is reduced to the smallest ve	elocity of the axes involved.
Remedy	•	Program a lower path speed or check override	
	•	Check NC machine data "Maximum velocity"	
	•	Program a smaller spindle speed with G95	
3093	G1	71 not allowed	Acknowledgement key
Scan	Aft	er programming G171	
Effect	•	Function is not executed	
Explanation		71 is illegal for the following reasons:	
	•	No FIFO has been assigned to the current channel "FIFO" has not been activated.	
Remedy	•	Program a lower path speed or check override	
Romouy	•	Check NC machine data "Maximum speed"	
	•	Program a smaller spindle speed with G95	
Noto	Ch	annal annaifia	

Note Channel-specific Applies up to SW 2

эy

Acknowledgement key

1–54

3094	Error in compensation data	Acknowledgement key
Scan	On POWER ON/warm restart	
Effect	Interpolatory compensation (IKA) is not executed, an IKA already active is ended.	
Explanation	 It is not possible to convert the error curves because the input data are incorrect. Only one of the start and end pointers is 0. Both must be 0 or <> 0. End pointer is not greater than start pointer Within an error curve section, the interpolationposition (n+1) is less than or equ The straight line slope within an error curve section is >= 45 degrees Both pointers of the table are zero Intermediate point or intermediate value not calculated The block number indicates which IKA point is affected 	al to the interpolation position (n)
Remedy	Correct the compensation data	
3095	Handwheel 1 – wire breakage	Acknowledgement key
Scan	Cyclic	
Effect	 It is no longer possible to traverse the axes in the normal way using the handway 	vheel.
Explanation		
Remedy	 Check the handwheels Eliminate the hardware fault If necessary, connect wire jumper on CSB, if handwheel is not connected, to a 	avoid triggering alarm
3096	Handwheel 2 – wire breakage	Acknowledgement key
Scan	Cyclic	
Effect	• It is no longer possible to traverse the axes in the normal way using the handw	vheel.
Explanation	The alarm is only relevant for handwheels with differential signal evaluation	
Remedy	 Check the handwheels Eliminate the hardware fault If necessary, connect wire jumper on CSB, if handwheel is not connected, to a 	avoid triggering alarm.
3097	Illegal handwheel function	Acknowledgement key
Scan	G27 programmed with active DRF Setting data 564* not provided with values	
Effect	Interlocking of NC START	
Remedy	Deselect DRF	
Note	Alarm is displayed with reference to channel	

3098 Error in IKA input/output data

CANCEL

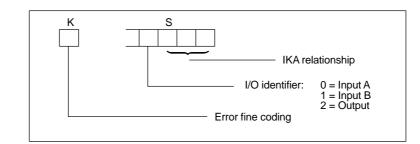
Acknowledgement key

Acknowledgement key

Acknowledgement key

Scan On changing input/output assignment of the IKA with inactive relationship (input screen or @40C), not G411. Effect None

Explanation A check is made to determine whether the input/output assignment of an IKA relationship contains permissible data, and in particular whether the pairs T2/T20, T25/T25, T3/T33 contain compatible values. An error fine coding ensues relating to block and channel number as follows:



Error fine coding:

- 1; Error = "Wrong group" 2; Error = "Illegal type of axis" 3; Error = "Wrong axis number" 4; Error = "Axis/channel not available" 5; Error = "Not a real axis" 6; Error = "Wrong R parameter number"

Remedy Enter the correct values

3100 Transfer buffer already assigned

- Scan During computer link operation
- Effect No data transfer between NC and host computer
- Explanation This alarm is not displayed but only sent from the NC to the host computer when data is to be transferred from the computer but the transfer buffer is still occupied.

3101 Program not in memory

Scan	•	When calling a program via computer link
Effect	•	None
Explanation		rogram has been requested for read-out but is not located in the NC memory. s alarm is not displayed in the message line but is only indicated in the operator display.
Remedy	•	Check whether program request is correct

- 3102 Data input disabled FTR Scan When reading in programs via FTR
- Effect FTR is aborted
- Explanation You have tried to read in a part program via FTR which has already been edited and executed NC internally. • "Execution from external"

A program with the same number as the program to be executed from external already exists

Remedy Stop execution or delete program in the case of "Execution from external".

3110 Wrong block structure for axis-specific override Acknowledgement key (2nd step) Scan When G160 and G161 commands are not programmed alone in a block Effect

- Interlocking of NC START Remedy Alter the part program
- Note Applies to SW 2 only

Wrong block struct. for delete dist-to-go

-	wrong block struct. for delete dist-to-go	Acknowledgement key
Scan	 When @736 has not been programmed after the programmed axis movemen If the axis concerned has not been programmed 	ts
Explanation	Interlocking of NC START	
, Remedy	Alter the part program	
Note	Alarm is displayed with reference to block and channel	
3112	Wrong block structure for resinvession	Asknowledgement key
	Wrong block structure for reciprocation	Acknowledgement key
Scan	 Reciprocation incorrectly programmed (syntax, reciprocation parameters) Too many reciprocation movements in the block 	
Explanation	Interlocking of NC START	
Remedy	Alter the part program	
Note	Applies to SW 2 only	
3113	Error on accessing mixed I/O or CSB	Acknowledgement key
Scan	MIXED I/O module does not exist or is faulty	
Explanation	 Attempt made to output to CSB without output driver (wrong hardware) or defe 312–321 refer to non-existent modules or inputs. Interlocking of NC START PLC attempts to read from a non-existing module via fast data channel 	ective CSB output driver, NC MD
Remedy	 Slot in MIXED I/O module Check MIXED I/O module 	
	Replace the CSB moduleCorrect NC MD 312 to 321	
3157		Acknowledgement key
3157 Explanation	Correct NC MD 312 to 321 Stop in thread	• •
	Correct NC MD 312 to 321 Stop in thread	Acknowledgement key destroyed the thread.
Explanation Remedy	 Correct NC MD 312 to 321 Stop in thread During thread cutting a stop has occurred in the revolution feedrate which has 	• •
Explanation Remedy	 Correct NC MD 312 to 321 Stop in thread During thread cutting a stop has occurred in the revolution feedrate which has Check axis-specific feedrate lock (DB32) 	destroyed the thread.
Explanation Remedy 3158	 Correct NC MD 312 to 321 Stop in thread During thread cutting a stop has occurred in the revolution feedrate which has Check axis-specific feedrate lock (DB32) PLC number not allowed 	destroyed the thread.
Explanation Remedy 3158 Scan Effect	 Correct NC MD 312 to 321 Stop in thread During thread cutting a stop has occurred in the revolution feedrate which has Check axis-specific feedrate lock (DB32) PLC number not allowed On selecting via softkey in a configured display 	Acknowledgement key
Explanation Remedy 3158 Scan Effect	 Correct NC MD 312 to 321 Stop in thread During thread cutting a stop has occurred in the revolution feedrate which has Check axis-specific feedrate lock (DB32) PLC number not allowed On selecting via softkey in a configured display None 	Acknowledgement key
Explanation Remedy 3158 Scan Effect Explanation	 Correct NC MD 312 to 321 Stop in thread During thread cutting a stop has occurred in the revolution feedrate which has Check axis-specific feedrate lock (DB32) PLC number not allowed On selecting via softkey in a configured display None Configured field shows a non-existent PLC number; SINUMERIK 840C has only 1 	Acknowledgement key
Explanation Remedy 3158 Scan Effect Explanation Remedy	 Correct NC MD 312 to 321 Stop in thread During thread cutting a stop has occurred in the revolution feedrate which has Check axis-specific feedrate lock (DB32) PLC number not allowed On selecting via softkey in a configured display None Configured field shows a non-existent PLC number; SINUMERIK 840C has only 1 Check assignments using NC workstation and correct 	Acknowledgement key
Explanation Remedy 3158 Scan Effect Explanation Remedy 3159	 Correct NC MD 312 to 321 Stop in thread During thread cutting a stop has occurred in the revolution feedrate which has Check axis-specific feedrate lock (DB32) PLC number not allowed On selecting via softkey in a configured display None Configured field shows a non-existent PLC number; SINUMERIK 840C has only 1 Check assignments using NC workstation and correct There is no data block 	Acknowledgement key
Explanation Remedy 3158 Scan Effect Explanation Remedy 3159 Scan Effect	 Correct NC MD 312 to 321 Stop in thread During thread cutting a stop has occurred in the revolution feedrate which has Check axis-specific feedrate lock (DB32) PLC number not allowed On selecting via softkey in a configured display None Configured field shows a non-existent PLC number; SINUMERIK 840C has only 1 Check assignments using NC workstation and correct There is no data block On selecting via softkey in a configured display 	Acknowledgement key

3111

1 Alarms

1.5.1 Alarm description

Acknowledgement key

3164	Axis conversion error	Acknowledgement key
Scan	While executing in AUTOMATIC, MDA or Teach In mode	
Effect	Machining stopsInterlocking of NC START	
Explanation	 The alarm is displayed in channel and block. Wrong entries in axis converter list (SD) Axis name not entered Axis does not exist 	
Remedy	Correct axis converter list	
Note	Alarm is displayed with reference to block and channel	
3166	Program coordination wrong	Acknowledgement key
Scan	While executing a part program	
Effect	Machining stops	
Explanation	Addressed channel has not been defined or is not enabled	
Remedy	Change channel addressing Define or enable channel	
Note	Alarm is displayed with reference to block and channel	
3167	T/H word not acknowledged	Acknowledgement key
Scan	Cyclic	0 2
Effect	None	
Explanation	 The target channel is not enabled in the PLC MD (signals from channel) Routing in target channel has not yet been acknowledged by the user 	
Remedy	The current routing and/or error must be acknowledged through the PLC program gned.	before the next routing is assi-
3200	Program coordination syntax wrong	Acknowledgement key
Scan	When executing a part program	
Effect	Interlocking of machining	
Explanation	Syntax error: invalid command mnemonics invalid modification parameters	
Remedy	Correct the faulty command	
Note	Alarm is displayed with reference to block and channel	
3201	Program coord. too many parameters	Acknowledgement key
Scan	When executing a part program	
Effect	Interlocking of machining	
Explanation	More command parameters have been programmed than are permitted in the com	mand description.
Remedy	Correct the faulty command	
Note	Channel-specific	
3202	Program coordination area violation	Acknowledgement key
Scan	When executing a part program	- /
Effect	Interlocking of machining	
Explanation		ies
Remedy	Correct the faulty command	
Note	Alarm is displayed with reference to block and channel	

3203	Program coord. illegal character	Acknowledgement key
Scan	When executing a part program	
Effect	Interlocking of machining	
Explanation	Illegal separators are in the coordination command.	
Remedy	Correct the faulty command	
Note	Alarm is displayed with reference to block and channel	
3204	Program coord. command incomplete	Acknowledgement key
Scan	When executing a part program	
Effect	Interlocking of machining	
Explanation	Parameters or closing brackets are missing in the programmed command or channel no. = 0	
Remedy	Correct the faulty command	
Note	Alarm is displayed with reference to block and channel	
3205	Program coord. R parameter error	Acknowledgement key
Scan	When executing a part program	
Effect	Interlocking of machining	
Explanation	• An error occurred while programmed R parameters were being substituted	
Remedy	Correct the faulty command	
Note	Alarm is displayed with reference to block and channel	
3206	Program coord. symbol. paras. not allowed	Acknowledgement key
3206 Scan	Program coord. symbol. paras. not allowed When executing a part program	Acknowledgement key
		Acknowledgement key
Scan Effect	When executing a part program	Acknowledgement key
Scan Effect	When executing a part program Interlocking of machining	Acknowledgement key
Scan Effect Explanation	When executing a part program Interlocking of machining With the exception of the R parameters, no symbol. parameters are permitted	Acknowledgement key
Scan Effect Explanation Remedy	When executing a part program Interlocking of machining With the exception of the R parameters, no symbol. parameters are permitted Correct the faulty command	Acknowledgement key
Scan Effect Explanation Remedy	When executing a part program Interlocking of machining With the exception of the R parameters, no symbol. parameters are permitted Correct the faulty command	Acknowledgement key Acknowledgement key
Scan Effect Explanation Remedy Note	When executing a part program Interlocking of machining With the exception of the R parameters, no symbol. parameters are permitted Correct the faulty command Alarm is displayed with reference to block and channel	
Scan Effect Explanation Remedy Note 3220	When executing a part program Interlocking of machining With the exception of the R parameters, no symbol. parameters are permitted Correct the faulty command Alarm is displayed with reference to block and channel Change from G176 \rightarrow G175	
Scan Effect Explanation Remedy Note 3220 Scan Effect	When executing a part program Interlocking of machining With the exception of the R parameters, no symbol. parameters are permitted Correct the faulty command Alarm is displayed with reference to block and channel Change from G176 \rightarrow G175 • When executing a part program	Acknowledgement key pensation, the ZO group was G53 programmed.
Scan Effect Explanation Remedy Note 3220 Scan Effect	 When executing a part program Interlocking of machining With the exception of the R parameters, no symbol. parameters are permitted Correct the faulty command Alarm is displayed with reference to block and channel Change from G176 → G175 When executing a part program Activated freeze function is terminated leading to G175 function. During an activated freeze function for angle of rotation, zero offset or length comp changed or the D No. was changed, an angle of rotation offset was activated or a function. 	Acknowledgement key pensation, the ZO group was G53 programmed.
Scan Effect Explanation Remedy Note 3220 Scan Effect Explanation	 When executing a part program Interlocking of machining With the exception of the R parameters, no symbol. parameters are permitted Correct the faulty command Alarm is displayed with reference to block and channel Change from G176 → G175 When executing a part program Activated freeze function is terminated leading to G175 function. During an activated freeze function for angle of rotation, zero offset or length comportanged or the D No. was changed, an angle of rotation offset was activated or a G These functions result in termination of the "Freeze" function and a change to the O 	Acknowledgement key pensation, the ZO group was G53 programmed.
Scan Effect Explanation Remedy Note 3220 Scan Effect Explanation Remedy	 When executing a part program Interlocking of machining With the exception of the R parameters, no symbol. parameters are permitted Correct the faulty command Alarm is displayed with reference to block and channel Change from G176 → G175 When executing a part program Activated freeze function is terminated leading to G175 function. During an activated freeze function for angle of rotation, zero offset or length comp changed or the D No. was changed, an angle of rotation offset was activated or a G These functions result in termination of the "Freeze" function and a change to the G Check program blocks and correct 	Acknowledgement key pensation, the ZO group was G53 programmed.
Scan Effect Explanation Remedy Note 3220 Scan Effect Explanation Remedy	 When executing a part program Interlocking of machining With the exception of the R parameters, no symbol. parameters are permitted Correct the faulty command Alarm is displayed with reference to block and channel Change from G176 → G175 When executing a part program Activated freeze function is terminated leading to G175 function. During an activated freeze function for angle of rotation, zero offset or length comp changed or the D No. was changed, an angle of rotation offset was activated or a G These functions result in termination of the "Freeze" function and a change to the G Check program blocks and correct 	Acknowledgement key pensation, the ZO group was G53 programmed.
Scan Effect Explanation Remedy Note 3220 Scan Effect Explanation Remedy Note	 When executing a part program Interlocking of machining With the exception of the R parameters, no symbol. parameters are permitted Correct the faulty command Alarm is displayed with reference to block and channel Change from G176 → G175 When executing a part program Activated freeze function is terminated leading to G175 function. During an activated freeze function for angle of rotation, zero offset or length compchanged or the D No. was changed, an angle of rotation offset was activated or a G Check program blocks and correct Channel-specific 	Acknowledgement key eensation, the ZO group was G53 programmed. G175 function.
Scan Effect Explanation Remedy Note 3220 Scan Effect Explanation Remedy Note 3225	 When executing a part program Interlocking of machining With the exception of the R parameters, no symbol. parameters are permitted Correct the faulty command Alarm is displayed with reference to block and channel Change from G176 → G175 When executing a part program Activated freeze function is terminated leading to G175 function. During an activated freeze function for angle of rotation, zero offset or length comportanged or the D No. was changed, an angle of rotation offset was activated or a GThese functions result in termination of the "Freeze" function and a change to the G Check program blocks and correct Channel-specific 	Acknowledgement key eensation, the ZO group was G53 programmed. G175 function.
Scan Effect Explanation Remedy Note 3220 Scan Effect Explanation Remedy Note 3225 Scan	 When executing a part program Interlocking of machining With the exception of the R parameters, no symbol. parameters are permitted Correct the faulty command Alarm is displayed with reference to block and channel Change from G176 → G175 When executing a part program Activated freeze function is terminated leading to G175 function. During an activated freeze function for angle of rotation, zero offset or length comp changed or the D No. was changed, an angle of rotation offset was activated or a of These functions result in termination of the "Freeze" function and a change to the O Check program blocks and correct Channel-specific Invalid plane specification Before executing a part program 	Acknowledgement key eensation, the ZO group was G53 programmed. G175 function. Acknowledgement key
Scan Effect Explanation Remedy Note 3220 Scan Effect Explanation Remedy Note 3225 Scan Effect	 When executing a part program Interlocking of machining With the exception of the R parameters, no symbol. parameters are permitted Correct the faulty command Alarm is displayed with reference to block and channel Change from G176 → G175 When executing a part program Activated freeze function is terminated leading to G175 function. During an activated freeze function for angle of rotation, zero offset or length comperimentation of the "Freeze" function and a change to the O No. was changed, an angle of rotation offset was activated or a of These functions result in termination of the "Freeze" function and a change to the O Check program blocks and correct Channel-specific Invalid plane specification Before executing a part program Processing stops 	Acknowledgement key eensation, the ZO group was G53 programmed. G175 function. Acknowledgement key
Scan Effect Explanation Remedy Note 3220 Scan Effect Explanation Remedy Note 3225 Scan Effect Explanation	 When executing a part program Interlocking of machining With the exception of the R parameters, no symbol. parameters are permitted Correct the faulty command Alarm is displayed with reference to block and channel Change from G176 → G175 When executing a part program Activated freeze function is terminated leading to G175 function. During an activated freeze function for angle of rotation, zero offset or length comperchanged or the D No. was changed, an angle of rotation offset was activated or a G These functions result in termination of the "Freeze" function and a change to the G Check program blocks and correct Channel-specific Invalid plane specification Before executing a part program Processing stops The plane assignment (cube) and the axis definitions in the channel do not correst 	Acknowledgement key eensation, the ZO group was G53 programmed. G175 function. Acknowledgement key

3226	Invalid G function initial setting	Acknowledgement key
Scan	Before processing the first block in AUTOMATIC or MDA	
Effect	Processing stops	
Explanation	Invalid G function initial settings positions have been entered in the channel-specif	ïc machine data.
Remedy	Check NC MD 108* to 122*	
Note	Alarm is displayed with reference to channel	
3233	Approach reference point not allowed	Reset key
Scan	In "AUTOMATIC interrupted" state.	
Effect	No referencing possible.	
Explanation	If a program is interrupted with the NC STOP key or when changing from AUTOMATIC to JOG mode, it must not be possible to activate the submode (Safety function)	of JOG, REFPOINT.
Remedy	 Reference in program (G74) Abort program and reference using keys 	
3234	There is no target block	Acknowledgement key
Scan	When block search function is being applied	
Effect	Machining stopsInterlocking of NC START	
Explanation	Block being sought is not in the part program or is to be found after M30	
Remedy	Check entered block number	
Note	Applies as from SW 2	
Note	Alarm is displayed with reference to channel	
3235	End of program missing	Acknowledgement key
Scan	When executing a part program	
Effect	Machining stops	
Explanation	The program end M30 is missing in the part program.	
Remedy	Check the part program	
Note	Channel-specific	
3236	Illegal pole specification	Acknowledgement key
Scan	When executing a part program	
Effect	Machining stopInterlocking of NC START	
Explanation	 Illegal pole programming with polar coordinates when: G110, G111, G112 programmed without having specified a pole plane Programmed pole plane with G110, G111, G112 does not correspond to the current pole plane G110, G111, G112 programmed with axes and with angles and radii Pole displacement (by way of G9 programming) with G10, G11, G12, G13 does not correspond to the current pole plane G10, G11, G12, G13 programmed for the first time without axis specification G10, G11, G12, G13 programmed for the first time with G91 	
Remedy	 G91 programmed before the angle Check the incorrect block in the "Correction block" display. The cursor is positioned in front of the incorrect word, if possible. 	
Note	Alarm is displayed with reference to block and channel	

Note Alarm is displayed with reference to block and channel

Acknowledgement key

Effect	Part program is not output	
Explanation	The control tries to output via the computer link a part program which is in the process of being edited.	
Remedy	Terminate editing and repeat read-out process	
2020	Program being road in Acknowledgement key	
3238	Program being read-in Acknowledgement key	
Scan	When starting read-out via the computer link	
Effect	Part program is not read out	
Explanation	The control tries to output via the computer link a part program which is in the process of being read in via the computer link	
Remedy	Wait for the end of the read-in process and repeat read-out.	
3239	EPROM cycle overwritten by SPF POWER ON	
Scan	When reading in subroutines via the computer link	
Effect	Cycle replaced by subroutine	
Explanation	At least one subroutine has been read in which has the same number as an existing cycle. The cycle can therefore no longer be called from a part program. The first cycle to be overwritten is displayed in the N number.	
Remedy	Delete the read in subroutine to save the cycle.	
	To prevent overwriting generally, set MD 5147, bit 3 to 1 on file transfer.	
Note	Channel-specific	
3240	Subroutine not read-in Acknowledgement key	
3240 Scan	Subroutine not read-in Acknowledgement key When reading in subroutines via computer link Acknowledgement key	
Scan	When reading in subroutines via computer link	
Scan Effect	When reading in subroutines via computer link At least one subroutine has not been read The control has attempted to read in at least one subroutine which has the same number as an existing UMS cy-	
Scan Effect	When reading in subroutines via computer link At least one subroutine has not been read The control has attempted to read in at least one subroutine which has the same number as an existing UMS cy- cle.	
Scan Effect Explanation	When reading in subroutines via computer link At least one subroutine has not been read The control has attempted to read in at least one subroutine which has the same number as an existing UMS cy- cle. The first subroutine not to be read in is displayed in the N number.	
Scan Effect Explanation Remedy	When reading in subroutines via computer link At least one subroutine has not been read The control has attempted to read in at least one subroutine which has the same number as an existing UMS cy- cle. The first subroutine not to be read in is displayed in the N number. If the UMS cycle is to be replaced by a subroutine, the MD 5147, bit 3 must be set to 0 on file transfer.	
Scan Effect Explanation Remedy	When reading in subroutines via computer link At least one subroutine has not been read The control has attempted to read in at least one subroutine which has the same number as an existing UMS cy- cle. The first subroutine not to be read in is displayed in the N number. If the UMS cycle is to be replaced by a subroutine, the MD 5147, bit 3 must be set to 0 on file transfer. Channel-specific	
Scan Effect Explanation Remedy Note	When reading in subroutines via computer link At least one subroutine has not been read The control has attempted to read in at least one subroutine which has the same number as an existing UMS cy- cle. The first subroutine not to be read in is displayed in the N number. If the UMS cycle is to be replaced by a subroutine, the MD 5147, bit 3 must be set to 0 on file transfer. Channel-specific Incorrect parameters "Ext. overstore" Reset key	
Scan Effect Explanation Remedy Note 3260	When reading in subroutines via computer link At least one subroutine has not been read The control has attempted to read in at least one subroutine which has the same number as an existing UMS cy- cle. The first subroutine not to be read in is displayed in the N number. If the UMS cycle is to be replaced by a subroutine, the MD 5147, bit 3 must be set to 0 on file transfer. Channel-specific Incorrect parameters "Ext. overstore" Reset key On decoding G421–6.	
Scan Effect Explanation Remedy Note 3260 Scan Effect	When reading in subroutines via computer link At least one subroutine has not been read The control has attempted to read in at least one subroutine which has the same number as an existing UMS cy- cle. The first subroutine not to be read in is displayed in the N number. If the UMS cycle is to be replaced by a subroutine, the MD 5147, bit 3 must be set to 0 on file transfer. Channel-specific Incorrect parameters "Ext. overstore" Reset key On decoding G421–6. Decoding stop When programming G421–6, it is found that the required behaviour requested through the program has been lok-	
Scan Effect Explanation Remedy Note 3260 Scan Effect Explanation	When reading in subroutines via computer link At least one subroutine has not been read The control has attempted to read in at least one subroutine which has the same number as an existing UMS cycle. The first subroutine not to be read in is displayed in the N number. If the UMS cycle is to be replaced by a subroutine, the MD 5147, bit 3 must be set to 0 on file transfer. Channel-specific Incorrect parameters "Ext. overstore" Reset key On decoding G421–6. Decoding stop When programming G421–6, it is found that the required behaviour requested through the program has been lok-ked by the machine data parameterization.	
Scan Effect Explanation Remedy Note 3260 Scan Effect	When reading in subroutines via computer link At least one subroutine has not been read The control has attempted to read in at least one subroutine which has the same number as an existing UMS cy- cle. The first subroutine not to be read in is displayed in the N number. If the UMS cycle is to be replaced by a subroutine, the MD 5147, bit 3 must be set to 0 on file transfer. Channel-specific Incorrect parameters "Ext. overstore" Reset key On decoding G421–6. Decoding stop When programming G421–6, it is found that the required behaviour requested through the program has been lok-	
Scan Effect Explanation Remedy Note 3260 Scan Effect Explanation Remedy	When reading in subroutines via computer link At least one subroutine has not been read The control has attempted to read in at least one subroutine which has the same number as an existing UMS cycle. The first subroutine not to be read in is displayed in the N number. If the UMS cycle is to be replaced by a subroutine, the MD 5147, bit 3 must be set to 0 on file transfer. Channel-specific Incorrect parameters "Ext. overstore" Reset key On decoding G421–6. Decoding stop When programming G421–6, it is found that the required behaviour requested through the program has been lokked by the machine data parameterization. Perform no programming or check MD parameterization. Applies as from SW 4	
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3237

Scan

Program is being edited

When starting read-out via the computer link

3261	Workpiece not available Reset key		
Scan	At Power On and active MD "Load workpiece last active after Power On"		
Effect	The workpiece selected in the program pointer cannot be transferred from MMC to NCK.		
Explanation			
Remedy	 Select existing workpiece Preselect part program for execution (which means that the program pointer will automatically be assigned to the workpiece belonging to the preselected part program). 		
Note	Applies as from SW 4		
Note	Alarm is displayed with reference to channel		
3262	Error in NCK FB Acknowledgement key		
Scan	During cyclic operation of control		
Effect	None		
Explanation			
Remedy	Evaluate the block number and check the NCK FB.		
Continuation	Acknowledge the alarm with the Acknowledgement key		
Note	 Alarm 3262 is output only if appropriately configured by the machine manufacturer. An error has occurred in the safety NCK–FB. For more information and remedy, refer to the manufacturer's documentation. Applies as from SW 5.4. 		
3263	Impermissible axis position Acknowledgement key		
Scan	When executing a part program		
Effect	Interlocking of NC START Machining stops		
Explanation	The position of the material entry coordinate is outside the travel range of the block.		
Remedy	Modify the part program.		
Continuation	Acknowledge the alarm with the Acknowledgement key		
Note	Applies as from SW 5.4		
Note	Alarm is displayed with reference to channel		
3264	NC STOP is effective at the end of block		
Scan	When pressing NC STOP with active G04 S, G14 and G24 with set MD bit "No NC STOP in the dwell block".		
Effect	NC–STOP is delayed until the end of block		
Explanation	NC STOP has been pressed in a dwell block in which NC STOP is not to become effective. Processing of the dwell block continues, NS STOP becomes effective only at the end of the block.		
Remedy	The message is deleted when the NC STOP has become effective at the end of the block or when the NC STOP request has been cancelled with NC START.		
Note	 Alarm channel-specific Applies as from SW 5.4 		
3265	IKA output without enable Cancel key		
Scan	Cyclically in IPO cycle		
Effect	Feed stop of "slave axis" (IKA output variable)		
Explanation	The IKA setpoint output will be disabled because the IKA output variable (normally an axis) was stopped for safety reasons (e.g. feed disable, follow–up mode, override, controller enable).		
Remedy	Remove the reason for the feed stop. Caution: If the reason for the feed stop is no longer present, the IKA link is automatically reactivated. As a result, the "following error" that has been built up in the meantime is reduced again. The "reduction" is executed with the modification limit of the IKA.		
Note	Applies as from SW 6, the IKA number will be shown in the block number.		

3266	IKA table not calculated	Reset key
Scan	On selection of IKA	
Effect	IKA is not effective, machining standstill for all channels from SW 6.4	
Explanation	If a curve that has not (yet) been calculated is used when an IKA is selected, alarm 3266 (IKA table not calculated) is issued. The number of the curve that has not been calculated is displayed in the "block number". The channel number will always show 1.	
Remedy	Cancel alarm and press button "Calculate" in the "Show IKA curves" display or initia	iate the calculation with @xxx.
Note	Alarm from SW 6.3	
3267	Protection zone modification not possible	Acknowledgement key
Scan	On execution of a part program in automatic or MDI automatic mode	
Effect	PLC interface signal "protection zone modification not allowed" (DB 10, DL 16.6) is	s set.
Explanation	 MD 3948* "Coordinate assignment" does not contain coordinates for an axis used in the plane definition, so that TO and protection zone modification cannot be executed. The number of the protection zone is displayed as the "block number". 	
Remedy	Enter MD 3948* completely and correctly	
Note	Alarm from SW 6.3	
3280	NC start disable	Acknowledgement key
Scan	On NC START	, tenne meagement ney
Effect	None	
Explanation		
Remedy	Change to the required operating mode or enable the function (e.g. Teach in).	
Remedy		
3281	Set-up disable	POWER ON
Scan	While operating the manual travel keys	
Effect	None	
Explanation	Set-up disable has been set internally. The user wishes to move an axis with the m	nanual travel keys.
Remedy	Change to the required operating mode or enable the function (e.g. Teach in).	
3282	Data not available	Acknowledgement key
Scan	While reading in machine data or setting data into the NCK	
Effect	None	
Explanation	A machine data or setting data which does not exist (or which no longer exists in the present software version) has been read in.	
Remedy	Remove invalid machine data or setting data from file.	
3283	Number range for encoder coarse position exceeded	Acknowledgement key
Acknowl-	Cancel key	, control and gome in they
edgement Scan	When reading in machine data	
Effect	None	
Explanation		MD 3944* The first start-up of
Explanation	the function extension of range for EnDat absolute encoder has presumably been	
Remedy	Perform first start-up of the extension of range for EnDat absolute encoder in accordance with the documentation.	
(
4000	Delete alarm	
:		
4220	Parallel straight lines	
	This area is reserved for measuring cycle messages. The messages are listed in the 840C MEASURING CYCLES.	he publication SINUMERIK

1000*	Terminal assigned more than once POWER ON as from SW 2: Reset key	
Scan	When inputting machine data for axis assignment	
Effect	 No machining of the axes for which the connection number concerned has been assigned more than once Servo disable for the axis concerned Mode Group Ready removed Interlocking of NC START Interlocking of NC RDY relay 	
Explanation	MD384x. Example: MD3840 = 01060000, MD3845 = 01060000. Connection number 6 of the 1st measuring circuit	
Remedy	 module has thus been assigned more than once. Check and correct MD200x or MD384x 	
Note		
NOLE	Applies up to SW 2	
1000*	Terminal assigned more than once Reset key	
Scan	Cyclic for digital drives if double assignment of setpoint output via MD is permissible.	
Effect	As before	
Explanation	 Two NC axes assigned the same digital setpoint output are being controlled at the same time. This simultaneous output of setpoints at the same drive is not allowed. The interface signal "Parking axis" is not allowed for the axis that is not being controlled. 	
Remedy	One of the NC axes must be disconnected from the control loop (servo enable, follow-up mode).	
Note	Applies as from SW 3	
1004*	Permissible feed/limit frequency exceeded Reset key	
Scan	Cyclic	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Setpoint 0 Servo enable is cancelled after the time in NC MD "Cutout delay" Follow-up mode 	
Explanation	The maximum value set in the NC MD "Encoder frequency" has been exceeded.	
	Is only activated for C axes to spindles (assignment via NC MD 461*).	
	If the service number 309 is indicated here, the reason for the alarm is a format overflow, which can be avoided by reduction of the resolution.	
Remedy	Check feedrate and NC MD "Encoder limit frequency" MD 308*.	
1008*	Speed controller limitation Reset key	
Scan	POWER ON and warm restart	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Alarm causes machining stop 	
Explanation		
Remedy	 Check current controller Set speed control loop to a slower rate Increase parameters Check mechanical parts 	

1012* 1012* Scan		eset key eset key
Effect	 Corresponding axes switched to follow-up operation Machining stops Interlocking of NC START Mode Group Ready is removed 	
Explanation	 Setting error in the NC machine data, e.g. Too large a ratio between interpolator clockrate and position control clockrate, because MD160>8 Too large an internal K_V (servo gain) factor by specification of K_V factor (252*) Multgain (260*) Pulse weighting Ratio of cycle rate (MD165) to setting for fine interpolation (MD160) or check of MD584* "Identifier or axes" is not a whole number Incorrect measuring system adjustment with MD364* to MD368* (values chosen too large) General parameter error in a drive MD An illegal value has been entered for the pulse multiplication in connection with the high-resolution m system. Permissible values are: 1, 2, 4, 8, 16, 32, 64 and 128. Error in parameterization of the SI machine data. 	-
Remedy	 Check and new input of the corresponding machine data. The AXIS service display shows the service number for the parameterization errors and therefore the cause.(see Diagnostics Guide, Section Parameterization errors spindle/axis). 	ne exact
Note	 Alarm "Parameterization error drive MD": up to SW 3 Alarm "Parameterization error NC–MD": as from SW 4 	
1016*	MS switchover not possible Re	eset key
Scan	When the PLC requests a measuring system switchover	-
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Setpoint 0 Servo enable is withdrawn after the time in NC-MD "Cutout delay controller enable" has elapsed Follow-up mode 	
Explanation	•	specified in
Remedy	Check the mechanical parts and find out the reason for the differences in the measuring value acquisitio 1st and the 2nd measuring system. Check sign change actual value 2nd measuring system MD 1824* bit 4, if necessary.	on via the
1028*	Unable to set reference dimension Reference Re	eset key
Scan	Negative edge of signal DB32, DL K+1, bit 6, ("Set reference dimension")	
Effect	 Interlock of NC Start Setpoint 0 No servo enable Follow-up mode 	
Explanation	If the "Set reference dimension" could not be performed (axis not stationary), the "Reference point reach is no longer set and also the axis-specific RESET alarm 1028* "Unable to set reference dimension" is tri-	
Remedy	Make sure that the axes are stationary.	
1040*	Absolute encoder defective POV	WER ON
Scan	POWER ON	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Machining stops 	
Explanation	If a SIPOS absolute encoder with absolute submodule is fitted and the absolute encoder function is select 1808*, bit 0, the absolute position is requested by the control on POWER ON. If it is not possible to trans absolute position from the encoder without any errors, this alarm is released.	ected in MD smit an

Remedy	Check the encoder hardware (encoder, cable, connectors, absolute submodule). The SIPOS encoder must remain stationary during transmission of the absolute value, the axis must therefore be held by the brake if necessary.	
Note	Drive MD 1033 contains fine coding of errors.	
1044*	Battery absolute module Acknowledgement key	
Scan	Cyclic, every 10 minutes	
Effect	None	
Explanation	nation The SIPOS encoder has a battery back-up on the absolute submodule so that the absolute position is not lost even when switched off. The remaining capacity of this battery is checked by the absolute module approximatel every 10 minutes and an alarm is released if a critical minimum limit is reached.	
Remedy	Replace the battery on the absolute module (see SIPOS absolute encoder description)	
1052*	Drive fault Reset key	
Scan	 611–D alarm 300100 "Drive link off" Power On / Reset alarms (ZK1) from 611–D 	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Setpoint 0 Servo enable cancelled after the time set in NC MD "Switchoff delay servo enable" has passed (not with alarm "Drive link off") Follow-up mode 	
	 611–D status signals "Drive ready" and "Drive connected" are reset 	
Explanation	Further detailed information on the cause are given in the MMC diagnosis display	
Note	Applies as from SW 3	
1056*	Programmed axis is slave Reset key	
Scan	 Setpoint specified for a slave axis Travel to fixed stop with a slave axis 	
Effect	 Interlocking of NC START Follow-up mode Cancellation of Mode Group Ready Processing interrupt 	
Explanation	The designated axis is coupled to its master axis through a speed setpoint coupling. Setpoings should therefore not be specified.	
Remedy Note	Setpoints should not be specified for the slave axis. Applies as from SW 4.4	
1064*	Output not available POWER ON	
Scan	Setpoint incorrectly assigned	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready Setpoint 0 No servo enable Follow up mode 	
Explanation	•	
Remedy	Check the setpoint assignment machine data	
Note	Applies as from SW 3	

1068*	Drive fault F	POWER ON
Scan	 611–D alarms Drive configuration faulty Ramp-up error (error on 611–D ramp-up. Adjusting data has caused errors) Fault along transmission line 	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready Setpoint 0 Servo enable cancelled after the time set in NC MD "Switch off delay servo enable" has passed Follow-up mode 	
Explanation	 Further detailed information on the cause in MMC diagnosis display 	
Note	Applies as from SW 3	
1076*	Measure hardware	Reset key
Scan	Once only after incorrect operator action/function selection	
Effect	 Machining stops NC Start disable Removal of Mode Group Ready 	
Explanation	 Invalid measuring circuit assignment Pushbutton 2 programmed for SPC/HMS Alternating edges programmed for SPC/HMS Positive edge programmed for SPC/HMS Measuring system change during extended measurement 	
Remedy	Check and rectify possible causes of error.	
1080*	Hardware referencing with passive monitoring axis	Reset key
Scan	Referencing	
Effect	 Interlocking of NC Start Follow–up mode Mode group ready cancelled Machining interrupted 	
Explanation	 Referencing is attempted with the axis concerned, but a passive monitoring axis cannot be reference 	renced.
Remedy	Set reference dimension for passive monitoring axis.	
Note	Alarm from SW 6.3	
1164*	Emergency retraction triggered	Reset key
Scan	Cyclic in servo cycle when LINK ON is set for following axis (from servo).	
Effect	Machining interrupted, interlocking of NC START; Mode Group Ready cancelled;	
Explanation	The threshold MD "Emergency retraction threshold" programmed for synchronism monitoring has be and "Emergency retraction triggered". Condition: enable via PLC interface signal emergency retraction enabled.	een exceeded
Remedy	Check the drives; check the speed and acceleration limit values of the following axis/spindle; check emergency retraction threshold; check the link factors.	the
Note	Applies as from SW 3	
1168*	Overlay of FA not enabled Acknowledge	gement key
Scan	Path defined for following axis (NCK).	- •
Effect	Setpoint not output, i.e. overlay not executed.	
Explanation		set.
Remedy	Traverse the following axis with the fictitious leading axis or set PLC interface signal "Enable FA over	
Note	Applies as from SW 3	-

1172* Speed limit exceeded

Scan Cyclic in servo cycle when LINK ON has been set for the following axis (from servo)

- *Effect* No reaction, machining not interrupted; the speed of the following axis is limited to the programmed maximum value; the setpoint determined by the compensatory controller is not used in the calculation.
- *Explanation* The maximum value set for the following axis/spindle has been exceeded. Synchronism is in danger.

Remedy Reduce feedrate or speed of leading axes. Check the speed limit value. Check the link factors.*Note* Applies as from SW 3

1176* Acceleration limit exceeded

- Scan Cyclic in servo cycle when LINK ON has been set for the following axis and MD bit "Suppression of acceleration limitation" is not set (from servo).
- *Effect* No reaction. Machining is not interrupted; when interface signal "Acceleration limitation synchronous" is set; travel is continued at maximum acceleration; any suppressed partial setpoints are traversed afterwards; If interface signal "Acceleration limit synchronous" has not been set; any suppressed partial setpoints are not traversed. The setpoint determined by the compensatory controller is not used in the calculation.
- Explanation The maximum value programmed for the following axis has been exceeded. Synchronism is in danger.
- *Remedy* Reduce the acceleration of the leading axes. Check the acceleration limit value. Check the link factors. Set MD bit "Suppress acceleration limitation".
- Note Applies as from SW 3

1180* Following spindle corrected autom.

- Scan An error has occurred that has cancelled "Mode Group Ready".
- Scan Cyclic in servo cycle when LINK ON is set
- Effect Machining is interrupted. Interlocking of NC START: switchover to actual position link.
- *Explanation* An error has occurred for an axis/spindle in the mode group which usually causes a switch over to follow-up mode. As long as the following axis is not affected by the fault, the link is maintained until "Delay controlled follow-up" has been executed.
- *Remedy* Remove error from faulty axis/spindle.

Note Applies as from SW 3

1192* Centering edge violated

- Scan Cyclic in IPO cycle when LINK ON and PLC interface signal "Semi-automatic centring is active" are set.
- Effect Interlocking of NC START, any movement towards edges already recognized are suppressed.
- *Explanation* The alarm is set when the axis tries to traverse across an edge that has already been recognized or if PLC interface signal "Semi-automatic centring on" and "First edge approached" have been set without first traversing the following axis.
- *Remedy* Move following axis away from the edge (in opposite direction to approach direction: if necessary remove interface signal "x edge approached" traverse at least 1 increment between interface signal "Semi-automatic centring on" and "First edge approached".
- Note Applies as from SW 3 up to SW 4.3

1192* No synchronous/switching positions defined

- Scan When synchronizing or switching on in relation to a position from PLC.
- Effect Interlocking of NC START, MACHINING STOP
- *Explanation* An attempt has been made to synchronize master and slave axes/spindles from PLC, or to switch on with reference to a position, without there being any valid switching or synchronizing positions. Synchronization or switching on with reference to a position is therefore not possible.
- *Remedy* For example, specified positions through the GI input display.
- Note Applies as from SW 4.4

Acknowledgement key

Acknowledgement key

Acknowledgement key

Reset key

Reset key

1196*	Reconfiguration not allowed	Acknowledgement key
Scan	-	Acknowledgement key
	When RECONFIGURING with G function (G401), i.e. when adding, removing a least structure or on CLEAR configuration (from NCK)	
Effect	Interlocking of NC START	
Explanation	"Reconfiguration allowed" is not set (MD 1844, bit 1)	
Remedy	Correct input, set MD bit	
Note	Applies as from SW 3	
1200*	Division wrong	POWER ON
Scan	Cyclic	
Effect	 Interlocking of NC START Machining is interrupted 	
Explanation	The "Division from PLC" function is not possible because:NC machine data "Number of divisions" has an invalid value	
	 NC machine data "Absolute division increment" has an invalid value NC machine data "Division offset" has an invalid value 	
	 NC machine data "Division offset" has an invalid value Indexing axis has been defined as a rounding axis, which is impermissible. 	
Remedy	Check and correct the relevant machine data.	
2		
1204*	Traversing range limits exceeded	Reset key
Scan	Cyclic (only with linear axes)	
Effect	Interlocking of NC START	
	 Machining is interrupted Set value 0 (abrupt, no deceleration ramp) 	
Explanation	If no software limit switches or working area limitations are active, it is theoretically	rossible to exceed the
LAplanation	maximum possible traversing range (set by the combination of axis-specific positic resolution). As this would lead to traversing errors, however, the traversing range li exceeded, alarm 1204* is set.	on control resolution and input
Remedy	Traverse back into the permissible range in the opposite direction using INC or JO	G mode.
1208*	Link factor KF not allowed	Acknowledgement key
Scan	When entering a new link factor via the G function (from NCK).	
Effect	Command is not executed, the previous link factor is maintained. Interlocking of Net	C start.
Explanation	Denominator J=0 is programmed, link factor incorrectly programmed, following axis	s not programmed.
Remedy	Correct link factor	
Note	Applies as from SW 3	
1212*	Overwriting of persent allowed	Acknowledgement key
Scan	Overwriting of pos. not allowed When programming a position with GI command.	Acknowledgement key
Effect		
	G command is not executed: interlocking of NC START	
Explanation Remedy	GI positions must not be overwritten (enabled with MD 1844 *, bit 3)	
Note	Correct input Applies as from SW 3	
11010		
40404	Decention (deletion and allowed)	
1216*	Reconfiguration/deletion not allowed	Reset key
Scan	When RECONFIGURING with G function (G401), i.e. when a leading axis is adde- structure is altered or on DELETE CONFIGURATION (from NCK)	
Effect	Interlocking of NC START, NC STOP, i.e. channel is stopped: command is not exe	cuted: JOG mode still possible.
Explanation	RECONFIGURATION or DELETE CONFIGURATION is not possible until LINK O RECONFIGURATION is only possible after DELETE CONFIGURATION. Program (G401); following axis already exists.	FF has been set. a new configuration block
Remedy	First set LINK OFF for the GI grouping in question.	
Note	Applies as from SW 3	

1220*	GI configuration not allowed	Acknowledgement key
Scan	When programming DEFINE CONFIGURATION with G function. (From NCK)	i como a gomo no go
Effect	Command is not executed. Interlocking of NC START	
Explanation	 Possible causes: Do leading and following axes have a position measuring system (encoders)? Is the following axis linked to itself as a leading axis? Can the axis be a following axis (MD 1844*)? Link structure switchover not permissible (MD 1844*) Link type for the LA/LS not allowed (MD 1456*/496*)? The following axes must always be real available axes, i.e. a measuring circuit (ned. A measuring circuit must be defined for leading axes/spindles with link strue Leading axes/spindles and following axis are not in the same mode group. Not exactly one leading spindle defined for following spindle. One of the axes in the GI grouping is a fictitious transformation axis. No synchronous positions have been defined for on-the-fly synchronization. 	
Remedy	Check configuration	
Note	Applies as from SW 3	
1224*	Change of KF not allowed	Acknowledgement key
Scan	When a new link factor is entered via G function (from NCK).	
Effect	The command is not executed, the previous link factor is kept. Interlocking of NC START	
Explanation	The link factor default setting must not be changed (MD 1844*).	
Remedy	Change default setting if necessary.	
Note	Applies as from SW 3	
1228*	Link factor KF not allowed	Reset key
Scan	When entering a new link factor via G function (from NCK).	
Effect	Command is not executed, the previous link factor remains. Interlocking of NC STAI JOG mode still possible.	RT; NC STOP. Channel stop;
Explanation	The entered link factor does not lie within the range $0.00000001 \le /KF \le 10.0000$ individual values are so high that internal overflows are the result.	00 or denominator J = 0 or the
Remedy	Correct or shorten link factor KF	
Note	Applies as from SW 3	
1232*	Change of link factor KF not allowed	Reset key
Scan	When entering a new link factor via G function (from NCK).	•
Effect	Command is not executed, the previous link factor remains. Interlocking of NC STAI JOG mode still possible.	RT; NC STOP. Channel stop;
Explanation	The link factor default setting must not be changed (MD 1844*).	
D /		

Remedy Change default setting if necessary.

Note Applies as from SW 3

Acknowledgement key

1236*	GI configuration not allowed Re	eset key
Scan	When programming DEFINE CONFIGURATION via G function. (From NCK)	eset key
Effect	Command is not executed. Interlocking of NC START; NC STOP, channel stopped; JOG mode still possi	ihle
	 Possible causes: Do leading and following axes have a position measuring system (encoders)? Is the following axis linked to itself as a leading axis? Can the axis be a following axis (MD 1844*)? Link structure switchover not permissible (MD 1844*) 	
	 Link type for the LA/LS not allowed (MD 1456*/496*)? The following axes must always be real available axes, i.e. a measuring circuit (POS encoder) must ned. A measuring circuit must be defined for leading axes/spindles with link structure K2 (actual posi Leading axes/spindles and following axis are not in the same mode group. Not exactly one leading spindle defined for following spindle. One of the axes in the GI grouping is a fictitious transformation axis. No synchronous positions have been defined for on-the-fly synchronization. 	be defi- ition link).
Remedy	Check configuration	
Note	Applies as from SW 3	
1240*	Following axis not defined Re	eset key
Scan	When programming an axis as a following axis which is not defined as such (from NCK).	,
Effect	G command is not executed. Interlocking of NC START; NC STOP, channel is stopped: JOG mode still p	ossible.
Explanation		
Remedy	Correct input.	
Note	Applies as from SW 3	
1244*	Axis not in C axis mode Re	eset key
Scan	The following axis is a C axis, is however not in axis mode.	
Effect	G command is not executed Interlocking of NC START; NC STOP, channel is stopped; JOG mode still possible.	
Explanation	7 For all GI commands except G401, C axis mode must also be set for the C axis which is to be programm following axis. When G401 is programmed, a GI grouping must not also be defined for the assigned spin	
Remedy	Correct input.	
Note	Applies as from SW 3	
1248*	Leading axis not defined Re	eset key
Scan	When programming an axis as a following axis or a spindle as a leading spindle which are not defined as (from NCK)	s such.
Effect	Command is not executed. Interlocking of NC START; NC STOP, channel stopped: JOG mode still possible.	
Explanation	A GI grouping with the stated axis defined as a leading axis does not exist.	
Remedy	Correct input.	
Note	Applies as from SW 3	
1252*	Overwriting of GI position not allowed Re	eset key
Scan	When programming a position with GI command.	
Effect	GI command is not executed. Interlocking of NC START; NC STOP, channel stopped: JOG mode still possible.	
Explanation		
, Remedy	Correct input	

Applies as from SW 3

Note

1256*	Retraction axis is following axis	Reset key
Scan	On decoding the retraction command	-
Effect	None	
Explanation	Alarm occurs when a following axis is defined as retraction axis because the link is violated by the re Also, the overlay must be enabled by the PLC.	etraction.
Remedy	Select another retraction axis.	
Note	Applies as from SW 4	
1260*	Retraction axis in several channels	Reset key
Scan	With configuration G425/6	
Effect	Machining interrupt	
Explanation	An axis has been programmed as retraction axis that has already been selected in another channel	for retraction.
Remedy	Remove axis from the retraction block.	
Note	Applies as from SW 4	
1264*	Sel./desel. endl. rot. axis illegal	Reset key
Scan	On decoding	
Effect	Machining interrupt	
Explanation	An endlessly rotating rotary axis programmed for a retraction operation should be switched over to n operation.	ormal axis
Remedy	Before deselecting the endless rotary axis, write a G block without this rotary axis.	
Note	Applies as from SW 4	
1268*	IKA path reconfiguration illegal	Reset key
1200	in pair recomputation inegation	Nesel key
Scan	When programming G401/G411	Neset key
	When programming G401/G411 Interlocking of NC Start	Nesel key
Scan Effect	When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop	Nesel key
Scan	When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop	Nesel Ney
Scan Effect	 When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop An IKA path has been defined that is already configured. 	Neset key
Scan Effect Explanation	 When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop An IKA path has been defined that is already configured. An attempt has been made to delete with G411 an IKA path that is still active. 	Neset key
Scan Effect Explanation	 When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop An IKA path has been defined that is already configured. An attempt has been made to delete with G411 an IKA path that is still active. 	Reset key
Scan Effect Explanation Remedy	 When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop An IKA path has been defined that is already configured. An attempt has been made to delete with G411 an IKA path that is still active. Activate an IKA path that is not yet configured. On deselection: Switch IKA inactive. 	·
Scan Effect Explanation Remedy 1272*	 When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop An IKA path has been defined that is already configured. An attempt has been made to delete with G411 an IKA path that is still active. Activate an IKA path that is not yet configured. On deselection: Switch IKA inactive. Error in IKA path input/output	·
Scan Effect Explanation Remedy 1272 * Scan	 When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop An IKA path has been defined that is already configured. An attempt has been made to delete with G411 an IKA path that is still active. Activate an IKA path that is not yet configured. On deselection: Switch IKA inactive. Error in IKA path input/output When programming G401/411/G412 Interlocking of NC Start, NC Stop	Reset key
Scan Effect Explanation Remedy 1272* Scan Effect	 When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop An IKA path has been defined that is already configured. An attempt has been made to delete with G411 an IKA path that is still active. Activate an IKA path that is not yet configured. On deselection: Switch IKA inactive. Error in IKA path input/output When programming G401/411/G412 Interlocking of NC Start, NC Stop If an input/output value is specified with G410/G411/412 that does not correspond to the configuration	Reset key
Scan Effect Explanation Remedy 1272* Scan Effect Explanation	 When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop An IKA path has been defined that is already configured. An attempt has been made to delete with G411 an IKA path that is still active. Activate an IKA path that is not yet configured. On deselection: Switch IKA inactive. Error in IKA path input/output When programming G401/411/G412 Interlocking of NC Start, NC Stop If an input/output value is specified with G410/G411/412 that does not correspond to the configuration permissible, this alarm is triggered.	Reset key
Scan Effect Explanation Remedy 1272* Scan Effect Explanation	 When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop An IKA path has been defined that is already configured. An attempt has been made to delete with G411 an IKA path that is still active. Activate an IKA path that is not yet configured. On deselection: Switch IKA inactive. Error in IKA path input/output When programming G401/411/G412 Interlocking of NC Start, NC Stop If an input/output value is specified with G410/G411/412 that does not correspond to the configuration permissible, this alarm is triggered. Specify input/output correctly or omit I/O designation with G410.	Reset key
Scan Effect Explanation Remedy 1272* Scan Effect Explanation Remedy	 When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop An IKA path has been defined that is already configured. An attempt has been made to delete with G411 an IKA path that is still active. Activate an IKA path that is not yet configured. On deselection: Switch IKA inactive. Error in IKA path input/output When programming G401/411/G412 Interlocking of NC Start, NC Stop If an input/output value is specified with G410/G411/412 that does not correspond to the configuration permissible, this alarm is triggered. Specify input/output correctly or omit I/O designation with G410.	Reset key
Scan Effect Explanation Remedy 1272* Scan Effect Explanation Remedy 1276*	 When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop An IKA path has been defined that is already configured. An attempt has been made to delete with G411 an IKA path that is still active. Activate an IKA path that is not yet configured. On deselection: Switch IKA inactive. Error in IKA path input/output When programming G401/411/G412 Interlocking of NC Start, NC Stop If an input/output value is specified with G410/G411/412 that does not correspond to the configuration permissible, this alarm is triggered. Specify input/output correctly or omit I/O designation with G410. Illegal software limit switch After changing MD Interlocking of NC START 	Reset key
Scan Effect Explanation Remedy 1272* Scan Effect Explanation Remedy 1276* Scan	 When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop An IKA path has been defined that is already configured. An attempt has been made to delete with G411 an IKA path that is still active. Activate an IKA path that is not yet configured. On deselection: Switch IKA inactive. Error in IKA path input/output When programming G401/411/G412 Interlocking of NC Start, NC Stop If an input/output value is specified with G410/G411/412 that does not correspond to the configuration permissible, this alarm is triggered. Specify input/output correctly or omit I/O designation with G410. Illegal software limit switch After changing MD Interlocking of NC START Interlocking of Mode Group Ready 	Reset key
Scan Effect Explanation Remedy 1272* Scan Effect Explanation Remedy 1276* Scan Effect	 When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop An IKA path has been defined that is already configured. An attempt has been made to delete with G411 an IKA path that is still active. Activate an IKA path that is not yet configured. On deselection: Switch IKA inactive. Error in IKA path input/output When programming G401/411/G412 Interlocking of NC Start, NC Stop If an input/output value is specified with G410/G411/412 that does not correspond to the configuration permissible, this alarm is triggered. Specify input/output correctly or omit I/O designation with G410. Illegal software limit switch After changing MD Interlocking of NC START Interlocking of Mode Group Ready Interlocking of machining stops 	Reset key on or is not
Scan Effect Explanation Remedy 1272* Scan Effect Explanation Remedy 1276* Scan	 When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop An IKA path has been defined that is already configured. An attempt has been made to delete with G411 an IKA path that is still active. Activate an IKA path that is not yet configured. On deselection: Switch IKA inactive. Error in IKA path input/output When programming G401/411/G412 Interlocking of NC Start, NC Stop If an input/output value is specified with G410/G411/412 that does not correspond to the configuration permissible, this alarm is triggered. Specify input/output correctly or omit I/O designation with G410. Illegal software limit switch After changing MD Interlocking of NC START Interlocking of Mode Group Ready Interlocking of machining stops An impermissibly high value has been entered in the software limit switch NC MD. The maximum tra of the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for	Reset key on or is not POWER ON
Scan Effect Explanation Remedy 1272* Scan Effect Explanation Remedy 1276* Scan Effect Explanation	 When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop An IKA path has been defined that is already configured. An attempt has been made to delete with G411 an IKA path that is still active. Activate an IKA path input/output When programming G401/411/G412 Interlocking of NC Start, NC Stop If an input/output value is specified with G410/G411/412 that does not correspond to the configuration permissible, this alarm is triggered. Specify input/output correctly or omit I/O designation with G410. Illegal software limit switch After changing MD Interlocking of NC START Interlocking of machining stops An impermissibly high value has been entered in the software limit switch NC MD. The maximum tra of the individual axes is determined by the set axis-specific position control resolution and the input root of the individual axes is determined by the set axis-specific position control resolution and the input root of the individual axes is determined by the set axis-specific position control resolution and the input root of the individual axes is determined by the set axis-specific position control resolution and the input root of the individual axes is determined by the set axis-specific position control resolution and the input root of the individual axes is determined by the set axis-specific position control resolution and the input root of the individual axes is determined by the set axis-specific position control resolution and the input root of the individual axes is determined by the set axis-specific position control resolution and the input root of the individual axes is determined by the set axis-specific position control resolution and the input root of control entered the maximum permissible value in the relevant NC MD when alarm 87 was triggered 	Reset key on or is not POWER ON
Scan Effect Explanation Remedy 1272* Scan Effect Explanation Remedy 1276* Scan Effect	 When programming G401/G411 Interlocking of NC Start Interlocking of NC Stop An IKA path has been defined that is already configured. An attempt has been made to delete with G411 an IKA path that is still active. Activate an IKA path that is not yet configured. On deselection: Switch IKA inactive. Error in IKA path input/output When programming G401/411/G412 Interlocking of NC Start, NC Stop If an input/output value is specified with G410/G411/412 that does not correspond to the configuration permissible, this alarm is triggered. Specify input/output correctly or omit I/O designation with G410. Illegal software limit switch After changing MD Interlocking of NC START Interlocking of Mode Group Ready Interlocking of machining stops An impermissibly high value has been entered in the software limit switch NC MD. The maximum tra of the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for the individual axes is determined by the set axis-specific position control resolution and the input for	Reset key on or is not POWER ON

Acknowledgement key

1280*

Scan

Illegal working area limitation

Cyclic

Scan	- Cyclic
Effect	The control automatically enters the maximum possible value for the traversing range in the working area limita- tion.
Explanation	A value has been entered in the minimum or maximum axis-specific working area limitation which is outside the permissible traversing range of the axis in question.
Remedy	 Check input Check program (G25, G26, @) Take maximum traversing range from table (combination of axis-specific position control resolution and input resolution).
Note	Applies as from SW 3
1284*	Fixed stop not reached Reset key
Scan	In the block or on every block change
Effect	 Alarm is triggered Machining stops
Explanation	Alarm 1284* is output when the fixed stop is not between the starting and target position in the selection block and no R parameter has been programmed for function acknowledgement in the selection block.
Remedy	Ensure that the fixed stop is between the starting and target position in the selection block. Also enter the R parameter number for the function acknowledgement in the selection block.
Note	Applies as from SW 3
1288*	No fixed stop axis Reset key
Scan	In a block or on every block change
Effect	Programmed path in block is not traversedMachining stops
Explanation	The function, Move Against Fixed Stop, has been selected for an axis which cannot traverse to the fixed stop.
Remedy	Select the function Move Against Fixed Stop for an axis which is able to. Set MD 1804* for the axis which is to move against the fixed stop.
Note	Applies as from SW 3
1292*	Axis at fixed stop Reset key
Scan	In a block or on every block change
Effect	Path programmed in block is not traversed
Explanation	The axes which have moved to the fixed stop cannot be included in an interpolation grouping while the function Move Against Fixed Stop is active.
Remedy	Deselect the function move against fixed stop for the axis which is to be part of an interpolation grouping.
Note	Applies as from SW 3
1296*	Clamping tolerance exceeded Reset key
Scan	While moving against fixed stop
Effect	Interlocking of NC START
	Setpoint 0
	 No servo enable Follow-up mode
Explanation	The alarm is triggered if the fixed stop is moved away from by more than the tolerance set in MD 1284*.
Remedy	Check parameter settings
-	
Note	Applies as from SW 3

1300*	Progr. axis is not a rotary axis	CANCEL
Scan	When executing AUTOMATIC, MDA and TEACH IN	
Effect	Interlocking of NC START	
	Machining stop	
Explanation		
Remedy	Correct the block!	
Note	Applies as from SW 4; alarm is channel-specific and block-specific!	
4004+		Decet less
1304*		Reset key
Scan Effect	On block search with calculation	
	Cancellation of the block search	ndlaaalu
•	An endlessly rotating rotary axis is programmed as contouring axis although the axis is still rotating en	ndiessiy.
Remedy Noto	Stop the endlessly rotating rotary axis and start the block search again.	
Note	Applies as from SW 4; alarm is channel-specific and block-specific!	
1308*	Error in progr. of sim. axis	Reset key
Scan	When executing a part program	
Effect	Machining abort	
Explanation	ů –	ng switched
Remedy	Correct the block!	
Note	Applies as from SW 4; alarm is channel-specific and block-specific!	
1312*	Error in progr. of sim. axis	CANCEL
1312* Scan	Error in progr. of sim. axis When executing a part program	CANCEL
-		CANCEL
Scan Effect	When executing a part program	CANCEL
Scan Effect	When executing a part programMachining abort	CANCEL
Scan Effect Explanation	 When executing a part program Machining abort The "Endlessly rotating rotary axis" has been incorrectly programmed. 	CANCEL
Scan Effect Explanation Remedy Note	 When executing a part program Machining abort The "Endlessly rotating rotary axis" has been incorrectly programmed. Correct the block! Applies as from SW 4; alarm is channel-specific and block-specific! 	
Scan Effect Explanation Remedy Note 1316*	 When executing a part program Machining abort The "Endlessly rotating rotary axis" has been incorrectly programmed. Correct the block! Applies as from SW 4; alarm is channel-specific and block-specific! 	CANCEL Reset key
Scan Effect Explanation Remedy Note 1316* Scan	 When executing a part program Machining abort The "Endlessly rotating rotary axis" has been incorrectly programmed. Correct the block! Applies as from SW 4; alarm is channel-specific and block-specific! Programmed position behind SW limit switch When executing a part program	
Scan Effect Explanation Remedy Note 1316 * Scan Effect	 When executing a part program Machining abort The "Endlessly rotating rotary axis" has been incorrectly programmed. Correct the block! Applies as from SW 4; alarm is channel-specific and block-specific! Programmed position behind SW limit switch When executing a part program Processing stops at indicated block.	Reset key
Scan Effect Explanation Remedy Note 1316* Scan Effect Explanation	 When executing a part program Machining abort The "Endlessly rotating rotary axis" has been incorrectly programmed. Correct the block! Applies as from SW 4; alarm is channel-specific and block-specific! Programmed position behind SW limit switch When executing a part program Processing stops at indicated block. The programmed end point of the displayed axis (incl. the active offsets) lies behind the software limit	Reset key
Scan Effect Explanation Remedy Note 1316 * Scan Effect	 When executing a part program Machining abort The "Endlessly rotating rotary axis" has been incorrectly programmed. Correct the block! Applies as from SW 4; alarm is channel-specific and block-specific! Programmed position behind SW limit switch When executing a part program Processing stops at indicated block. The programmed end point of the displayed axis (incl. the active offsets) lies behind the software limit Correct program 	Reset key
Scan Effect Explanation Remedy Note 1316* Scan Effect Explanation	 When executing a part program Machining abort The "Endlessly rotating rotary axis" has been incorrectly programmed. Correct the block! Applies as from SW 4; alarm is channel-specific and block-specific! Programmed position behind SW limit switch When executing a part program Processing stops at indicated block. The programmed end point of the displayed axis (incl. the active offsets) lies behind the software limit	Reset key
Scan Effect Explanation Remedy Note 1316* Scan Effect Explanation	 When executing a part program Machining abort The "Endlessly rotating rotary axis" has been incorrectly programmed. Correct the block! Applies as from SW 4; alarm is channel-specific and block-specific! Programmed position behind SW limit switch When executing a part program Processing stops at indicated block. The programmed end point of the displayed axis (incl. the active offsets) lies behind the software limit Correct program Check MD "1st and 2nd software limit switch plus/minus" 	Reset key
Scan Effect Explanation Remedy Note 1316* Scan Effect Explanation	 When executing a part program Machining abort The "Endlessly rotating rotary axis" has been incorrectly programmed. Correct the block! Applies as from SW 4; alarm is channel-specific and block-specific! Programmed position behind SW limit switch When executing a part program Processing stops at indicated block. The programmed end point of the displayed axis (incl. the active offsets) lies behind the software limit Correct program Check MD "1st and 2nd software limit switch plus/minus" Check PLC interface signal "2nd software limit switch active" 	Reset key
Scan Effect Explanation Remedy Note 1316* Scan Effect Explanation Remedy Note	 When executing a part program Machining abort The "Endlessly rotating rotary axis" has been incorrectly programmed. Correct the block! Applies as from SW 4; alarm is channel-specific and block-specific! Programmed position behind SW limit switch When executing a part program Processing stops at indicated block. The programmed end point of the displayed axis (incl. the active offsets) lies behind the software limit Correct program Check MD "1st and 2nd software limit switch plus/minus" Check PLC interface signal "2nd software limit switch active" Alarm is displayed axis-specifically, for the block and channel in question. Alarm applies as from SW 5 	Reset key
Scan Effect Explanation Remedy Note 1316* Scan Effect Explanation Remedy Note 1320*	 When executing a part program Machining abort The "Endlessly rotating rotary axis" has been incorrectly programmed. Correct the block! Applies as from SW 4; alarm is channel-specific and block-specific! Programmed position behind SW limit switch When executing a part program Processing stops at indicated block. The programmed end point of the displayed axis (incl. the active offsets) lies behind the software limit Correct program Check MD "1st and 2nd software limit switch plus/minus" Check PLC interface signal "2nd software limit switch active" Alarm is displayed axis-specifically, for the block and channel in question. Alarm applies as from SW 5 	Reset key
Scan Effect Explanation Remedy Note 1316* Scan Effect Explanation Remedy Note	 When executing a part program Machining abort The "Endlessly rotating rotary axis" has been incorrectly programmed. Correct the block! Applies as from SW 4; alarm is channel-specific and block-specific! Programmed position behind SW limit switch When executing a part program Processing stops at indicated block. The programmed end point of the displayed axis (incl. the active offsets) lies behind the software limit Correct program Check MD "1st and 2nd software limit switch plus/minus" Check PLC interface signal "2nd software limit switch active" Alarm is displayed axis-specifically, for the block and channel in question. Alarm applies as from SW 5 	Reset key
Scan Effect Explanation Remedy Note 1316* Scan Effect Explanation Remedy Note 1320* Scan Effect	 When executing a part program Machining abort The "Endlessly rotating rotary axis" has been incorrectly programmed. Correct the block! Applies as from SW 4; alarm is channel-specific and block-specific! Programmed position behind SW limit switch When executing a part program Processing stops at indicated block. The programmed end point of the displayed axis (incl. the active offsets) lies behind the software limit Correct program Check MD "1st and 2nd software limit switch plus/minus" Check PLC interface signal "2nd software limit switch active" Alarm is displayed axis-specifically, for the block and channel in question. Alarm applies as from SW 5 	Reset key
Scan Effect Explanation Remedy Note 1316* Scan Effect Explanation Remedy Note 1320* Scan Effect Explanation	 When executing a part program Machining abort The "Endlessly rotating rotary axis" has been incorrectly programmed. Correct the block! Applies as from SW 4; alarm is channel-specific and block-specific! Programmed position behind SW limit switch When executing a part program Processing stops at indicated block. The programmed end point of the displayed axis (incl. the active offsets) lies behind the software limit Correct program Check MD "1st and 2nd software limit switch plus/minus" Check PLC interface signal "2nd software limit switch active" Alarm is displayed axis-specifically, for the block and channel in question. Alarm applies as from SW 5 Axis not in C axis mode When traversing a C axis that is in spindle mode. Axis is not traversed. A C axis has been programmed in spindle mode. The alarm is only output if MD 5025.5 is set. 	Reset key
Scan Effect Explanation Remedy Note 1316* Scan Effect Explanation Remedy Note 1320* Scan Effect	 When executing a part program Machining abort The "Endlessly rotating rotary axis" has been incorrectly programmed. Correct the block! Applies as from SW 4; alarm is channel-specific and block-specific! Programmed position behind SW limit switch When executing a part program Processing stops at indicated block. The programmed end point of the displayed axis (incl. the active offsets) lies behind the software limit Correct program Check MD "1st and 2nd software limit switch plus/minus" Check ML interface signal "2nd software limit switch active" Alarm is displayed axis-specifically, for the block and channel in question. Alarm applies as from SW 5 Axis not in C axis mode When traversing a C axis that is in spindle mode. A c axis has been programmed in spindle mode.	Reset key

1324*	Tolerance for safe standstill exceeded	POWER ON
Scan	After selection of safe standstill After initiation of STOP C, D, E and expired timer	
Effect	Display of the alarm Initiation of STOP B and A	
Explanation	The axis has moved too far from the set position, i.e. further than permitted in MD 4180*: (standst safe operation).	ill tolerance for
Remedy	Check the tolerance of the standstill monitoring: If the value does not match the accuracy and dynamic control response of the axis -> increase the If the value matches the accuracy and dynamic control response of the axis -> inspect the machinand repair the damage.	
Note	Applies as from SW 5.4.	
1328*	Safe speed exceeded	Reset key
Scan	After selection of safe speed	
Effect	Display of the alarm Initiation of STOP C, D, E (depending on configuration)	
Explanation	The axis has moved too quickly, i.e. faster than permitted in MD 4184*, 4188*, 4192*, 4196*: (limit speed 1, 2, 3, 4).	t value for safe
Remedy	If no apparent operating error occurred: Check the input value of the MD, check the SGEs: of the 4 available speeds, was the correct one MDs and SGEs are correct, inspect the machine for damage and repair the damage.	selected? If
Note	Applies as from SW 5.4.	
1332*	Safe end position exceeded	Reset key
Scan	After enabling of the safe end position function	
Effect	Display of the alarm Initiation of STOP C, D, E (depending on configuration)	
Explanation	The axis has traveled beyond the end position entered in MD 4200*, 4204*: (upper limit for safe e or MD 4208*, 4212*: (lower limit for safe end position 1, 2).	nd position 1, 2)
Remedy	If no apparent operating error occurred: Check the input value of the MD, check the SGEs: of the 2 end positions, was the correct one se and SGEs are correct, inspect the machine for damage and repair the damage.	lected? If MDs
Continuation	7 Cancel the user enable for this axis. Then activate the RESET key. The program is aborted and t cleared. Move the axis into the valid travel range in JOG mode. When the error in the NC program died and the position of the axis has been checked, the user enable can be reactivated and the p	n has been reme-
Note	Applies as from SW 5.4.	
1336*	Failure in a monitoring channel	Reset key
Scan	After selection of at least one safety function	
Effect	Display of the alarm NC START interlock STOP F STOP B and A on active SI function	
Explanation	The comparison of both monitoring channels has uncovered a difference between the input data or results. One of the monitoring functions is no longer operating reliably, i.e. safe monitored operation possible.	
Remedy	Find the difference between the monitoring channels. The error code that indicates the cause applowing machine data: on 840C MD 301: diagnostics for STOP F (SI service display) on 611D MD 1395: diagnostics for STOP F (SI drive display) The meaning of the error code can be found in the error code table for STOP F on the 840C. It is safety-related machine data are no longer identical (load them again if necessary) or that the SG the same signal level (measure again or check in the SI service display). If no such error is found have occurred in the CPU, such as a corrupt memory cell. This error can be transient (remedied	possible that the Es do not have , an error may
Continuation	or permanent (reoccurs after POWER ON, in this case replace the hardware). 7 Remedy the error, and press the RESET key. The program is aborted. If safe monitoring was acti also initiated automatically. In this case, it is necessary to switch the control off and on (POWER)	
Note	Applies as from SW 5.4.	

No.	Name	Explanation	Cause, Remedy
0	No error	There is no error in this channel, however an error may have occurred in another channel.	Find the cause in the other chan- nel and interpret the error code
1	Result list 1	Differences in the evaluation of the safe standstill/ safe speed/safe end position functions in the NCK and drive monitoring channel	e.g. through unbalanced activa- tion of the functions via the SGEs
2	Result list 2	Differences in the evaluation of the SN function in the NCK and drive monitoring channel	Check the tolerance of the cams
3	Actual position value	The difference between the actual position value in the NCK and drive monitoring channel is greater than the actual value cross–comparison tolerance specified in MD 4256* or MD 1342	Incorrect encoder evaluation (check MDs) different standstill positions stored
4	No cross-comparison	-	-
5	Function enables	MD 4500*, 4504* and MD 1301 are not identical	Enter the same MD values
6	Limit value for SG1	MD 4184* and MD 1331 are not identical	Enter the same MD values
7	Limit value for SG2	MD 4188* and MD 1331 are not identical	Enter the same MD values
8	Limit value for SG3	MD 4192* and MD 1331 are not identical	Enter the same MD values
9	Limit value for SG4	MD 4196* and MD 1331 are not identical	Enter the same MD values
10	Standstill tolerance	MD 4180* and MD 1330 are not identical	Enter the same MD values
11	Upper limit SE1	MD 4200* and MD 1334 are not identical	Enter the same MD values
12	Lower limit SE1	MD 4208* and MD 1335 are not identical	Enter the same MD values
13	Upper limit SE2	MD 4204* and MD 1334 are not identical	Enter the same MD values
14	Lower limit SE2	MD 4212* and MD 1335 are not identical	Enter the same MD values
15	Safe cam 1+ (+ Tolerance)	MD 4216* + MD 4248* and MD 1336 + MD 1340 are not identical	Enter the same MD values
16	Safe cam 1+	MD 4216* and MD 1336 are not identical	Enter the same MD values
17	Safe cam 1– (+ Tolerance)	MD 4232* + MD 4248* and MD 1337 + MD 1340 are not identical	Enter the same MD values
18	Safe cam 1–	MD 4232* and MD 1337 are not identical	Enter the same MD values
19	Safe cam 2+ (+ Tolerance)	MD 4220* + MD 4248* and MD 1336 + MD 1340 are not identical	Enter the same MD values
20	Safe cam 2+	MD 4220* and MD 1336 are not identical	Enter the same MD values
21	Safe cam 2– (+ Tolerance)	MD 4236* + MD 4248* and MD 1337 + MD 1340 are not identical	Enter the same MD values
22	Safe cam 2–	MD 4236* and MD 1337 are not identical	Enter the same MD values
23	Safe cam 3+ (+ Tolerance)	MD 4224* + MD 4248* and MD 1336 + MD 1340 are not identical	Enter the same MD values
24	Safe cam 3+	MD 4224* and MD 1336 are not identical	Enter the same MD values
25	Safe cam 3– (+ Tolerance)	MD 4240* + MD 4248* and MD 1337 + MD 1340 are not identical	Enter the same MD values
26	Safe cam 3–	MD 4240* and MD 1337 are not identical	Enter the same MD values
27	Safe cam 4+ (+ Tolerance)	MD 4228* + MD 4248* and MD 1336 + MD 1340 are not identical	Enter the same MD values
28	Safe cam 4+	MD 4228* and MD 1336 are not identical	Enter the same MD values
29	Safe cam 4– (+ Tolerance)	MD 4244* + MD 4248* and MD 1337 + MD 1340 are not identical	Enter the same MD values
30	Safe cam 4–	MD 4244* and MD 1337 are not identical	Enter the same MD values
31	Position tolerance	MD 4256* and MD 1342 are not identical	Enter the same MD values
32	Reference position tolerance	MD 4252* and MD 1344 are not identical	Enter the same MD values
33	Time/velocity switchover	MD 4264* and MD 1351 are not identical	Enter the same MD values
34	Tolerance time/ SGE switch- over	MD 4260* and MD 1350 are not identical	Enter the same MD values

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No.	Name	Explanation	Cause, Remedy
35	Delay time pulse deletion	MD 4268* and MD 1356 are not identical	Enter the same MD values
36	Time for pulse deletion check	MD 4272* and MD 1357 are not identical	Enter the same MD values
37	Transition time STOP C to SBH	MD 4276* and MD 1352 are not identical	Enter the same MD values
38	Transition time STOP D to SBH	MD 4280* and MD 1353 are not identical	Enter the same MD values
39	Transition time STOP E to SBH	MD 4284* and MD 1354 are not identical	Enter the same MD values
40	Stop reaction after SG	MD 4508*.4,4508*.5 and MD 1361 are not identical	Enter the same MD values
41	Stop reaction after SE	MD 4508*.2,4508*.3 and MD 1362 are not identical	Enter the same MD values
42	Shut–down speed pulse dele- tion	MD 4288* and MD 1360 are not identical	Enter the same MD values
43	Memory test stop reaction	-	-
44	Position actual value+limit va- lue SG1	Position actual value (error code 3) different or MD 4184* and MD 1331[0] not equal (error code 6)	-
45	Position actual value–limit va- lue SG1	Position actual value (error code 3) different or MD 4184* and MD 1331[0] not equal (error code 6)	-
46	Position actual value+limit va- lue SG2	Position actual value (error code 3) different or MD 4188* and MD 1331[1] not equal (error code 7)	-
47	Position actual value-limit va- lue SG2	Position actual value (error code 3) different or MD 4188* and MD 1331[1] not equal (error code 7)	-
48	Position actual value+limit va- lue SG3	Position actual value (error code 3) different or MD 4192* and MD 1331[2] not equal (error code 8)	-
49	Position actual value–limit va- lue SG3	Position actual value (error code 3) different or MD 4192* and MD 1331[2] not equal (error code 8)	-
50	Position actual value+limit va- lue SG4	Position actual value (error code 3) different or MD 4196* and MD 1331[3] not equal (error code 9)	-
51	Position actual value–limit va- lue SG4	Position actual value (error code 3) different or MD 4196* and MD 1331[3] not equal (error code 9)	-
52	Standstill position + tolerance	Position actual value (error code 3) different or MD 4180* and MD 1330 not equal (error code 10)	-
53	Standstill position – tolerance	Position actual value (error code 3) different or MD 4180* and MD 1330 not equal (error code 10)	-
54	Position actual value+n _x +tole- rance	Position actual value (error code 3) different or MD 4292* and MD 1346 not equal (error code 75) or MD 4256* and MD 1342 not equal (error code 31)	-
55	Position actual value+n _x	Position actual value (error code 3) different or MD 4292* and MD 1346 not equal (error code 75)	-
56	Position actual value-n _x	Position actual value (error code 3) different or MD 4292* and MD 1346 not equal (error code 75)	-
57	Position actual value-n _x -tole- rance	Position actual value (error code 3) different or MD 4292* and MD 1346 not equal (error code 75) or MD 4256* and MD 1342 not equal (error code 31)	-
58	Stop request	MD 1301 bit 6 is not 0	-
59	SG correction factor 1	MD 1301 bit 5 is not 0	-
60	SG correction factor 2	MD 1301 bit 5 is not 0	-
61	SG correction factor 3	MD 1301 bit 5 is not 0	-
62	SG correction factor 4	MD 1301 bit 5 is not 0	-
63	SG correction factor 5	MD 1301 bit 5 is not 0	-
64	SG correction factor 6	MD 1301 bit 5 is not 0	-
65	SG correction factor 7	MD 1301 bit 5 is not 0	-
66	SG correction factor 8	MD 1301 bit 5 is not 0	-
67	SG correction factor 9	MD 1301 bit 5 is not 0	-
68	SG correction factor 10	MD 1301 bit 5 is not 0	-
69	SG correction factor 11	MD 1301 bit 5 is not 0	-
70		MD 1301 bit 5 is not 0	-
70 71	SG correction factor 12 SG correction factor 13	MD 1301 bit 5 is not 0	

No.	Name	Explanation	Cause, Remedy
73	SG correction factor 15	MD 1301 bit 5 is not 0	-
74	SG correction factor 16	MD 1301 bit 5 is not 0	-
75	Velocity limit n _x	MD 4292* and MD 1346 not equal	Enter MDs equal
76	Stop reaction with SG1	MD 4508*.4, 4508*.5 and MD 1361 not equal	Enter MDs equal
77	Stop reaction with SG2	MD 4508*.4, 4508*.5 and MD 1361 not equal	Enter MDs equal
78	Stop reaction with SG3	MD 4508*.4, 4508*.5 and MD 1361 not equal	Enter MDs equal
79	Stop reaction with SG4	MD 4508*.4, 4508*.5 and MD 1361 not equal	Enter MDs equal
80	SI modulo value for SN	MD 1367 is not 0	Enter MDs equal
81	Speed tolerance for SBR	MD 4296* and MD 1348 not equal	Enter MDs equal
1000	Control timer expired	The SGE modification timer did not expire within the time of the control timer (i.e. too many switching operations in SGEs).	e.g. contact problems (loose con- tact)
1001	Control timer initialization error	The SGE modification timer did not start the control timer.	-
1002	User enable timer expired	Different status of user enable from drive and NCK	-
1003	Reference tolerance violated	The comparison of stored standstill position and current position has a greater deviation than specified in MD 4252*: actual value tolerance (referencing) or MD 1344	-
1004	Plausibility violation of user enable	The user enable has been specified for an axis which is – already referenced – not yet referenced	-
1005	Pulses already deleted on test stop selection	The "pulses are deleted" signal is already active on test stop selection	Test stop selection on pulse en- able error during wiring of the "pulses are deleted" SGE
1006	Error on SGA forced dynamic response	An error was detected on the cyclic check of the SGAs.	_
1007	Breakdown of the communi- cation between PLC and drive	If the drive releases a breakdown in communica- tion, either the PLC or the NC has broken down.	
1008	Erroneous data transfer bet- ween PLC and drive	The data transfer of the SGEs/SGAs between PLC and drive is guaranteed by a checksum. In the event of an error, the calculated checksum does not coincide with the transferred checksum. If the stop is released by the drive, either the PLC or the NC has broken down.	

If the value 12 is stored in this value, the cross-comparison has detected a difference in the MD for lower limit SE1 in the NCK and drive monitoring channel.

1340*	Axis has not been referenced safely
Scan	After selection of SE/SN
Effect	Display of the alarm The "axis has been referenced safely" SGA is not enabled The safe end positions are not active The safe cams are output, but are not safe
Explanation	 The axis has not been referenced, or The user enable for this axis is missing or has been canceled. This can occur, for example, if the axis is moved after the machine is switched off, with the result that the standstill position, which was stored before the machine was switched off, is no longer correct.
Remedy	for 1. Reference the axis for 2. Activate the user enable The alarm disappears automatically when the enable has been activated
Warning!	 If the axis has not been referenced safely, and the user enable is not active: The safe cams are active but not yet safe The safe end positions are not yet active
Note	Applies as from SW 5.4.
1344*	Test stop running
Scan	After selection of at least one safety function
Effect	Display of the alarm
Explanation	The correct operation of the shut-down path is tested by enabling the "test stop selection" SGE.
Remedy	One is not necessary. It is used exclusively to inform the operator. The alarm disappears automatically when the delay time defined in MD 4272*: (time for checking pulse deletion) expires, if the control detects pulse deletion, i.e. if the test was successfully completed.
Note	Applies as from SW 5.4.
1348*	Stop E triggered Reset key
1348 * Scan	Stop E triggeredReset keyAfter selection of SG, SE
Scan	After selection of SG, SE Interlocking of NC START Initiation of ESR Activation of SBH Follow–up mode for all axes of this mode group Removal of Mode Group Ready Interruption of machining
Scan Effect	After selection of SG, SE Interlocking of NC START Initiation of ESR Activation of SBH Follow-up mode for all axes of this mode group Removal of Mode Group Ready Interruption of machining This alarm occurs with the alarms "safe speed exceeded" or "safe position exceeded" (when configured accord- ingly in MD 4508* Bit 4: (STOP D/E selection for SG) or MD 4508* Bit 2: (STOP D/E selection for SE). It indicates
Scan Effect Explanation Remedy	After selection of SG, SE Interlocking of NC START Initiation of ESR Activation of SBH Follow-up mode for all axes of this mode group Removal of Mode Group Ready Interruption of machining This alarm occurs with the alarms "safe speed exceeded" or "safe position exceeded" (when configured accord- ingly in MD 4508* Bit 4: (STOP D/E selection for SG) or MD 4508* Bit 2: (STOP D/E selection for SE). It indicates the initiation of a configured ESR and the internal activation of safe standstill.
Scan Effect Explanation Remedy	After selection of SG, SE Interlocking of NC START Initiation of ESR Activation of SBH Follow-up mode for all axes of this mode group Removal of Mode Group Ready Interruption of machining This alarm occurs with the alarms "safe speed exceeded" or "safe position exceeded" (when configured accord- ingly in MD 4508* Bit 4: (STOP D/E selection for SG) or MD 4508* Bit 2: (STOP D/E selection for SE). It indicates the initiation of a configured ESR and the internal activation of safe standstill. Remedy the causes of "safe speed exceeded" or "safe end position exceeded" (see description of the alarms).
Scan Effect Explanation Remedy Continuation	After selection of SG, SE Interlocking of NC START Initiation of ESR Activation of SBH Follow-up mode for all axes of this mode group Removal of Mode Group Ready Interruption of machining This alarm occurs with the alarms "safe speed exceeded" or "safe position exceeded" (when configured accord- ingly in MD 4508* Bit 4: (STOP D/E selection for SG) or MD 4508* Bit 2: (STOP D/E selection for SE). It indicates the initiation of a configured ESR and the internal activation of safe standstill. Remedy the causes of "safe speed exceeded" or "safe end position exceeded" (see description of the alarms). Remedy the error and press the RESET key (the program is aborted and must be restarted).
Scan Effect Explanation Remedy Continuation Note	After selection of SG, SE Interlocking of NC START Initiation of ESR Activation of SBH Follow-up mode for all axes of this mode group Removal of Mode Group Ready Interruption of machining This alarm occurs with the alarms "safe speed exceeded" or "safe position exceeded" (when configured accord- ingly in MD 4508* Bit 4: (STOP D/E selection for SG) or MD 4508* Bit 2: (STOP D/E selection for SE). It indicates the initiation of a configured ESR and the internal activation of safe standstill. Remedy the causes of "safe speed exceeded" or "safe end position exceeded" (see description of the alarms). Remedy the error and press the RESET key (the program is aborted and must be restarted). Applies as from SW 5.4.
Scan Effect Explanation Remedy Continuation	After selection of SG, SE Interlocking of NC START Initiation of ESR Activation of SBH Follow-up mode for all axes of this mode group Removal of Mode Group Ready Interruption of machining This alarm occurs with the alarms "safe speed exceeded" or "safe position exceeded" (when configured accord- ingly in MD 4508* Bit 4: (STOP D/E selection for SG) or MD 4508* Bit 2: (STOP D/E selection for SE). It indicates the initiation of a configured ESR and the internal activation of safe standstill. Remedy the causes of "safe speed exceeded" or "safe end position exceeded" (see description of the alarms). Remedy the error and press the RESET key (the program is aborted and must be restarted). Applies as from SW 5.4.
Scan Effect Explanation Remedy Continuation Note 1352*	After selection of SG, SE Interlocking of NC START Initiation of ESR Activation of SBH Follow-up mode for all axes of this mode group Removal of Mode Group Ready Interruption of machining This alarm occurs with the alarms "safe speed exceeded" or "safe position exceeded" (when configured accord- ingly in MD 4508* Bit 4: (STOP D/E selection for SG) or MD 4508* Bit 2: (STOP D/E selection for SE). It indicates the initiation of a configured ESR and the internal activation of safe standstill. Remedy the causes of "safe speed exceeded" or "safe end position exceeded" (see description of the alarms). Remedy the error and press the RESET key (the program is aborted and must be restarted). Applies as from SW 5.4. Stop D triggered Research States St
Scan Effect Explanation Remedy Continuation Note 1352* Scan	After selection of SG, SE Interlocking of NC START Initiation of ESR Activation of SBH Follow-up mode for all axes of this mode group Removal of Mode Group Ready Interruption of machining This alarm occurs with the alarms "safe speed exceeded" or "safe position exceeded" (when configured accord- ingly in MD 4508" Bit 4: (STOP D/E selection for SG) or MD 4508" Bit 2: (STOP D/E selection for SE). It indicates the initiation of a configured ESR and the internal activation of safe standstill. Remedy the causes of "safe speed exceeded" or "safe end position exceeded" (see description of the alarms). Remedy the error and press the RESET key (the program is aborted and must be restarted). Applies as from SW 5.4. Stop D triggered After selection of SG, SE Interlocking of NC START Braking on the path Activation of SBH Interruption of machining
Scan Effect Explanation Remedy Continuation Note 1352* Scan Effect	After selection of SG, SE Interlocking of NC START Initiation of ESR Activation of SBH Follow-up mode for all axes of this mode group Removal of Mode Group Ready Interruption of machining This alarm occurs with the alarms "safe speed exceeded" or "safe position exceeded" (when configured accord- ingly in MD 4508* Bit 4: (STOP D/E selection for SG) or MD 4508* Bit 2: (STOP D/E selection for SE). It indicates the initiation of a configured ESR and the internal activation of safe standstill. Remedy the causes of "safe speed exceeded" or "safe end position exceeded" (see description of the alarms). Remedy the error and press the RESET key (the program is aborted and must be restarted). Applies as from SW 5.4. Stop D triggered After selection of SG, SE Interlocking of NC START Braking on the path Activation of SBH Interruption of machining This alarm occurs with the alarms "safe speed exceeded" or "safe position exceeded" (when configured accord- ingly in MD 4508* Bit 4: (STOP D/E selection for SG) or MD 4508* Bit 2: (STOP D/E selection for SE). It indicates

Note Applies as from SW 5.4.

1356*	Stop C triggered	Reset key
Scan	After selection of SG, SE	
Effect	Interlocking of NC START Follow–up mode for all axes of this mode group Removal of Mode Group Ready Interruption of machining	
Explanation	This alarm occurs with the alarms "safe speed exceeded" or "safe position exceeded" (when con ingly in MD 4508* Bit 4: (STOP D/E selection for SG) or MD 4508* Bit 2: (STOP D/E selection for the initiation of "braking at the current limit" and the internal activation of the "safe standstill".	
Remedy	Remedy the causes of "safe speed exceeded" or "safe end position exceeded" (see description of	of the alarms).
Continuatior	7 Remedy the error and press the RESET key (the program is aborted and must be restarted).	
Note	Applies as from SW 5.4.	
1360*	Stop B triggered	POWER ON
Scan	After selection of SG, SE after selection of SBH After initiation of STOP C, D, E After initiation of STOP F and activated SBH/SG or SE, SN	
Effect	Interlocking of NC START Follow–up mode for all axes of this mode group Removal of Mode Group Ready Interruption of machining Pulse deletion after timer expires (SGA)	

- **Explanation** This alarm occurs with the alarm "tolerance for safe standstill exceeded" or alarm "STOP F triggered". It indicates the initiation of "braking at the current limit" and the internal activation of the timer for switchover to STOP A (see MD 4268*: (pulse deletion delay time).
- *Remedy* Remedy the causes of "tolerance for safe standstill exceeded" or for "STOP F triggered" (see description of the alarms).

Continuation Not possible. Acknowledgement of the alarm only possible by POWER ON.

Note Applies as from SW 5.4.

1364*	Stop A triggered POWER ON	1
Scan	After selection of SBH After initiation of STOP B	
Effect	Interlocking of NC START Removal of Mode Group Ready Interruption of machining Immediate pulse deletion (SGA)	
Explanation	This alarm occurs with the alarm "tolerance for safe standstill exceeded" or as a result of STOP B or an unsuc- cessful test stop. It indicates the initiation of a "pulse deletion".	
Remedy	Remedy the causes of "tolerance for safe standstill exceeded" or for "STOP F triggered" (see description of the alarms).	
Continuation	7 Not possible. Acknowledgement of the alarm only possible by POWER ON.	
Note	Applies as from SW 5.4.	
1368*	Protection zone collision plus RESET	•
Scan	Cyclic with active function "Collision monitoring"	
Parameters	Axis number	
Effect	Machining standstill; disabling of NC Start	
Explanation	Overlap of two protection zones has been recognized	
Domody	Travel free and trigger mode group reset	

- *Remedy* Travel free and trigger mode group reset
- Note Applies as from SW 6.

1372*	Protection zone collision minus RESET
Scan	Cyclic with active function "Collision monitoring"
Parameters	Axis number
Effect	Machining standstill; disabling of NC Start
Explanation	Overlap of two protection zones has been recognized
Remedy	Travel free and trigger mode group reset
Note	Applies as from SW 6.
1376*	Check absolute value encoder position Cancel key
Scan	 Loading of complete NC MD files Absolute value encoder available and range expansion of Endat absolute value encoder parameterized
Effect	None
Explanation	Startup, whjich is to be performed by loading an NC MD file, has possibly not yet been terminated on an axis with absolute value encoder. The start-up engineer must then decide whether further startup steps have to be carried out. This alarm remains present even after Power Off.
Remedy	 Bring axes to closed–loop control mode (terminate possible initial clear mode) and check the actual postion displayed.
	 If the actual postion is not correct (e.g. after loss of data in SRAM through hardware replacement), startup steps must be carried out.
	Acknowledge alarm (not possible in initial clear mode!)
2000*	LEC – grid spacing illegal POWER ON
Scan	Cyclic
Effect	Removal of NC START
Explanation	In the case of the spindle (e.g. synchronous spindle mode), a modulo value has been entered for the axis concer- ned which cannot be divided exactly into 360°, which means that the grid spacing is not equal.
Remedy	Check NC MD* 3440*
Note	Applies as from SW 3
0004*	
2001*	Speed setpoint warning limit responded Reset key
Scan	Cyclic
Effect	Interlocking of NC START
Explanation	 The setpoint on the DAC is higher than entered in NC MD 268* "Max. speed setpoint (DAC)". It is not possible to increase the setpoint any further. The alarm 2001* "Speed setpoint warning limit" can occur when an M19 positioning is requested while the drive unit is not ready (e.g. setpoint cable break: actuator switched off; actuator not enabled by PLC). An incorrect feedback polarity has been parameterized in the spindle positioning mode (sign error).
Remedy	
nemeuy	 Traverse at slower speed Check the actual values (encoder)

- Check the actual values (encoder)
 Check NC MD "Max. speed setpoint (DAC)"
 Check the drive actuator

2003*	Zero speed monitoring	Reset key
Scan	 When accelerating When at zero speed When clamped 	
Effect	 When decelerating (delay) Interlock of NC START Interlock of Mode Group Ready Setpoint 0 Servo enable is removed on expiry of the time in NC–MD "Cutoff delay servo enable" Follow-up mode 	
Explanation	servo enable".When clamped, the limit defined in the NC–MD "Zero speed monitoring" has been exceeded.	,
	 Mechanically clamped spindle has been pushed out of position. Error on the activating device, on the tacho, on the motor, in the mechanical construction, in tring circuit hardware or on/in the encoder. Wrong setpoint output assignment specified When starting up: wrong sense of position control 	he CNC measu-
Remedy	 NC-MD "Zero speed monitoring" must be greater than NC-MD "Exact stop limit coarse". NC-MD "Cutoff delay servo enable" must be great enough for the following error to be eliminatime (applies only when NC-MD "Delay zero speed monitoring" = 0). NC-MD "Delay zero speed monitoring" must be great enough for the following error of the vabe eliminated within the time entered. Check actual values (encoder) and sense of position control. 	
2007*	There is no measuring circuit	POWER ON
Scan	On POWER ON	
Effect	 Spindle is not processed Servo disable of spindle concerned Removal of Mode Group Ready Interlocking of NC START Interlocking of NC RDY relay 	
Explanation	 MD 400* and/or MD 460* indicates an empty submodule slot on a measuring circuit module v Example: MD 460* = 01090000, the first measuring circuit module is an HMS module with en slot 2. Measuring circuit module has been removed or is defective. 	
Remedy	• Compare MD 400* and/or MD 460* with the hardware configuration and correct.	
2008*	Closed-loop hardware spindle	POWER ON
Scan	Cyclic	
Effect	 Interlocking of NC START Setpoint relay drops out, setpoint 0 Removal of Mode Group Ready Spindle servo enable is removed after the time in MD "Delay for servo enable" has elapsed. 	
Explanation	 The measuring circuit difference signals are not in phase have a short circuit to groand are absent 	
Remedy	 Check wether the measuring circuit connector has been inserted The measuring circuit short circuit connector can be slotted in to check whether the measurin is functioning correctly. Check the difference signals with the oscilloscope Replace the encoder/cable 	ıg circuit module

04/96

2009*	Contamination measuring system spindle	POWER ON
Scan	• Cyclic	
Effect	Interlocking of NC STARTInterlocking of Mode Group Ready	
Explanation	 Where measuring systems have a contamination signal (e.g. EXE) an error is sent to the No ring system. 	C from the measu-
Remedy	Check the measuring system against the manufacturer's specifications.	
2010*	Pulse code monitoring	Reset key
Scan	• Cyclic	
Effect	 Interlocking of Mode Group Ready Interlocking of NC START Alarm causes machining stop 	
Explanation		
Remedy	Check encoder, cable, connecter	
2011*	Zara marka manifaring has responded	Beest key
	Zero marks monitoring has responded	Reset key
Scan Effect	Cyclic, depending on the tolerance band set for the difference pulses	
Eneci	 Interlocking of NC START Machining stops 	
Explanation	Pulses have been lost per encoder revolution, above the permitted tolerance band, due to trans interference or too high speed. The reference counter checks this zero mark.	mission errors,
Remedy	Check the encoder pulsesCheck transmission path	
2014* 2014*	Setpoint or actual speed alarm limit exceeded Speed setpoint value alarm limit responded	Reset key Reset key
-		
2014*	Speed setpoint value alarm limit responded	
2014 * Scan	 Speed setpoint value alarm limit responded Cyclic Interlocking of NC START Interlocking of Mode Group Ready Setpoint 0 Servo enable is removed after the time in NC MD "Cutout delay servo enable" has elapsed Follow-up mode The motor could not follow the entered speed setpoint. 	
2014 * Scan Effect	 Speed setpoint value alarm limit responded Cyclic Interlocking of NC START Interlocking of Mode Group Ready Setpoint 0 Servo enable is removed after the time in NC MD "Cutout delay servo enable" has elapsed Follow-up mode The motor could not follow the entered speed setpoint. During start-up: incorrect position control direction, incorrect spindle multgain 	
2014 * Scan Effect	 Speed setpoint value alarm limit responded Cyclic Interlocking of NC START Interlocking of Mode Group Ready Setpoint 0 Servo enable is removed after the time in NC MD "Cutout delay servo enable" has elapsed Follow-up mode The motor could not follow the entered speed setpoint. 	Reset key
2014 * Scan Effect	 Speed setpoint value alarm limit responded Cyclic Interlocking of NC START Interlocking of Mode Group Ready Setpoint 0 Servo enable is removed after the time in NC MD "Cutout delay servo enable" has elapsed Follow-up mode The motor could not follow the entered speed setpoint. During start-up: incorrect position control direction, incorrect spindle multgain The speed actual value exceeds the maximum spindle speed + tolerance If the service number 309 is indicated here, the reason for the alarm is a format overflow, which 	Reset key
2014* Scan Effect Explanation	 Speed setpoint value alarm limit responded Cyclic Interlocking of NC START Interlocking of Mode Group Ready Setpoint 0 Servo enable is removed after the time in NC MD "Cutout delay servo enable" has elapsed Follow-up mode The motor could not follow the entered speed setpoint. During start-up: incorrect position control direction, incorrect spindle multgain The speed actual value exceeds the maximum spindle speed + tolerance If the service number 309 is indicated here, the reason for the alarm is a format overflow, which reduction of the resolution. Another reason can also be the resolution of the C axis assigned. Check the drive Check speed setpoint cable Check speed setpoint cable Check actual values (pulse encoder) Increase spindle speed tolerance (MD 445*) 	Reset key
2014* Scan Effect Explanation Remedy	 Speed setpoint value alarm limit responded Cyclic Interlocking of NC START Interlocking of Mode Group Ready Setpoint 0 Servo enable is removed after the time in NC MD "Cutout delay servo enable" has elapsed Follow-up mode The motor could not follow the entered speed setpoint. During start-up: incorrect position control direction, incorrect spindle multgain The speed actual value exceeds the maximum spindle speed + tolerance If the service number 309 is indicated here, the reason for the alarm is a format overflow, which reduction of the resolution. Another reason can also be the resolution of the C axis assigned. Check the drive Check speed setpoint cable Check speed setpoint cable Check actual values (pulse encoder) Increase spindle speed tolerance (MD 445*) Increase acceleration time constant (MD 419* – 426*) Alarm "Setpoint or actual speed alarm limit exceeded": up to SW 3 	Reset key
2014* Scan Effect Explanation Remedy Note	 Speed setpoint value alarm limit responded Cyclic Interlocking of NC START Interlocking of Mode Group Ready Setpoint 0 Servo enable is removed after the time in NC MD "Cutout delay servo enable" has elapsed Follow-up mode The motor could not follow the entered speed setpoint. During start-up: incorrect position control direction, incorrect spindle multgain The speed actual value exceeds the maximum spindle speed + tolerance If the service number 309 is indicated here, the reason for the alarm is a format overflow, which reduction of the resolution. Another reason can also be the resolution of the C axis assigned. Check the drive Check speed setpoint cable Check speed setpoint cable Check actual values (pulse encoder) Increase spindle speed tolerance (MD 445*) Increase acceleration time constant (MD 419* – 426*) Alarm "Setpoint or actual speed alarm limit exceeded": up to SW 3 Alarm "Speed setpoint alarm limit actuated": as from SW 4 	Reset key
2014* Scan Effect Explanation Remedy Note 2015*	 Speed setpoint value alarm limit responded Cyclic Interlocking of NC START Interlocking of Mode Group Ready Setpoint 0 Servo enable is removed after the time in NC MD "Cutout delay servo enable" has elapsed Follow-up mode The motor could not follow the entered speed setpoint. During start-up: incorrect position control direction, incorrect spindle multgain The speed actual value exceeds the maximum spindle speed + tolerance If the service number 309 is indicated here, the reason for the alarm is a format overflow, which reduction of the resolution. Another reason can also be the resolution of the C axis assigned. Check the drive Check speed setpoint cable Check speed setpoint cable Check actual values (pulse encoder) Increase spindle speed tolerance (MD 445*) Increase acceleration time constant (MD 419* – 426*) Alarm "Setpoint or actual speed alarm limit exceeded": up to SW 3 Alarm "Speed setpoint alarm limit actuated": as from SW 4 	Reset key
2014* Scan Effect Explanation Remedy Note 2015* Scan Effect	 Speed setpoint value alarm limit responded Cyclic Interlocking of NC START Interlocking of Mode Group Ready Setpoint 0 Servo enable is removed after the time in NC MD "Cutout delay servo enable" has elapsed Follow-up mode The motor could not follow the entered speed setpoint. During start-up: incorrect position control direction, incorrect spindle multgain The speed actual value exceeds the maximum spindle speed + tolerance If the service number 309 is indicated here, the reason for the alarm is a format overflow, which reduction of the resolution. Another reason can also be the resolution of the C axis assigned. Check the drive Check position control direction Match spindle multgain (MD 468*) Check speed setpoint cable Check actual values (pulse encoder) Increase spindle speed tolerance (MD 445*) Increase acceleration time constant (MD 419* – 426*) Alarm "Setpoint or actual speed alarm limit exceeded": up to SW 3 Alarm "Speed setpoint alarm limit actuated": as from SW 4 Drift too high With input of NC MD 401* or with semi-automatic drift compensation (axis only)	Reset key can be avoided by Reset key

Check whether the drift has been compensated for correctly at the driving unit.

Remedy

2016*	Terminal assigned more than once POWER ON as from SW 3: Reset key
Scan	During machine data input for spindle assignment
Effect	No processing of the spindles of which the corresponding connection number has been assigned more than once. • Servo disable for the spindle in question
Explanation	 Removal of Mode Group Ready Interlocking of NC START Interlocking of NC RDY relay
Remedy	 A connection number of a measuring circuit module is entered several times in MD 400* and/or MD 460*. Example: MD 4600 = 01060000, MD 4605 = 01060000. Connection number 6 of the 1st measuring circuit module is thus assigned several times. Check and correct MD 400* and/or MD 460*.

2018* Speed controller limitation

Scan Cyclic

Effect

Remedy

- ٠ Interlocking of Mode Group Ready
 - Interlocking of NC START •
 - Alarm causes machining to stop •

Explanation • Speed controller limitation triggered

- Check current control. Set speed control loop slower. Check SIMODRIVE •
 - •
 - Check machine

Reset key

2019*

Parameterization error NC MD

Parameterization error NC MD 2019* Scan At POWER ON or warm restart Effect The spindles concerned are switched to follow-up mode Machining stops Interlocking of NC START Mode Group Ready removed Explanation Input error in machine data, e.g. Ratio of interpolator pulse to position control pulse too great because MD 160 > 80 Internal servo gain (K_V) factor too large due to Servo gain factor (469*) Multgain (468*) Pulse weighting No whole-number ratio between entry in MD 165 (timing ratio) and MD 160 (fine interpolation) Incorrect measuring system adaptation in MD 455* to MD 456* (values selected too large) General parameterization error of a drive MD Remedy The pulse multiplication value entered for the high-resolution measuring system is impermissible. The following values are permissible: 1, 2, 4, 8, 16, 32, 64 and 128. Check and new input of the corresponding machine data. Error in parameterization of the SI machine data. The SPINDLE service display displays the service number for parameterization errors and with it the exact cause (see Diagnostics Guide, Section Parameterization errors spindle/axis). Note Alarm "Parameterization error drive MD": up to SW 3 Alarm "Parameterization error NC-MD": as from SW 4 2021* Spindle not synchronized **Reset key** Scan On execution of an M19 command Effect Machining stops Explanation M19 was used to approach a spindle position, although the spindle had not yet been synchronized. Remedy Synchronize the spindle; execute the M19 again.

2028* MD M19 not selected

Scan When executing in AUTOMATIC mode or input in MDA or external Effect Machining stops "M19 S..." has been programmed in the part program although this function is not implemented in the control. Explanation • Check program Remedy Check NC MD

Reset key Reset key

Reset key

	Scipiton	
2029*	Drive fault	Reset key
Scan	 611–D alarm 300100 "Drive link off" Power On / Reset alarms (ZK1) from 611–D 	-
Remedy	 Interlocking of NC START Interlocking of Mode Group Ready Setpoint 0 Setpoint enable is removed after the time set in NC MD "Switch off delay servo enable" (not link off") Follow up mode 611–D status signals "Drive ready" and "Drive connected" are reset Further detailed information on the cause in MMC diagnosis display 	with alarm "Drive
Note	Applies as from SW 3	
2030* Scan Effect	Spindle speed too high Only when NC MD "Encoder available" is set Machining stops Interlocking of NC START	Reset key
Explanation	 Interlocking of Mode Group Ready The spindle speed is higher than defined in the machine data or setting data. 	
Remedy	 Program a smaller S value NC MD "Max spindle speed for 1st to 8th gearing" NC MD "Tolerance band of max. spindle speed" NC MD "Max. spindle speed" Check PLC gear speed Check G92 S at "v = constant" Check setting data of spindle speed limitation Program G26 S 	
2032*	Output not available	POWER ON
Scan	When setpoint incorrectly assigned	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready Setpoint 0 No servo enable Follow-up mode 	
Explanation	A digital setpoint output that does not exist has been assigned	
Remedy	Check the setpoint output machine data	
Note	Applies as from SW 3	
2033*	Drive fault	POWER ON
Scan	 611–D alarms Drive configuration description incorrect Drive number Drive type (FDD/MSD) Module type (single-axis/double-axis module) Ramp up error (error during 611–D rump-up, error during data matching) Transmission line fault (CRC, bus timeout) 	
Effect	 Interlocking of NC START Interlocking of Mode Group Ready Interlocking of NC Ready 	
Remedy	 Setpoint 0 Servo enable removed after time set in NC MD "Switchoff delay servo enable" has passed Follow-up mode Additional detailed information about the cause is given in the MMC diagnosis display. 	

Note Applies as from SW 3

1 Alarms

2057*	Emergency retraction triggered	Reset key
Scan	Cyclic in servo cycle, when LINK ON is set for the following spindle (from servo).	
Effect	Machining interrupted, interlocking of NC START; Mode Group Ready cancelled	
Explanation	The threshold MD "Emergency retraction threshold" programmed for synchronism monitoring and emergency retraction triggered. Prerequisite: Enable with PLC interface signal "Emergency retraction enabled".	has been exceeded
Remedy	Check the drives; check the speed and acceleration limit values of the following spindle; check retraction threshold; check the link factors.	k the emergency
Note	Applies as from SW 3	
2058*	Overlay of following axis not enabled Acknow	wledgement key
Scan	When path for following axis defined (NCK).	
Effect	Setpoint is not output, i.e. the overlay is not executed.	
Explanation	Overlaid offset of the following spindle although the PLC interface signal "Enable FA overlay"	is not set.
Remedy	Traverse a following axis with fictitious leading axis or set PLC interface signal "Enable FA ov	erlay".
Note	Applies as from SW 3	
2059*	Speed limit exceeded Acknow	vledgement key
Scan	Cyclic in servo cycle, when LINK ON is set for following spindle (from servo)	J. J. J. J.
Effect	No reaction	
	Machining is not interrupted	
	The speed of the following spindle is limited to the programmed maximum value; the setpoint compensatory controller is not included in the calculation.	determined by the
Explanation	The maximum value programmed for the following spindle has been exceeded. Synchronism	is at risk
Remedy	 Reduce feedrate or speed of leading spindles Check the speed limit value Check the link factors 	
Note	Applies as from SW 3	
2060*	Acceleration limit exceeded Acknow	wledgement key
Scan	Cyclic in servo cycle, when LINK ON is set for the following spindle and MD bit "Suppress act (MD 526*) is not set (from servo).	celeration limitation"
Effect	No reactionMachining is not interrupted	
	Interface signal "Acceleration limitation synchronous" is set, spindle continues to travel at max any suppressed TSW are traversed afterwards. If interface signal "Acceleration limitation syn suppressed partial setpoints are not traversed. The setpoint determined by the compensatory included in the calculations.	chronous" is not set,
Explanation	Maximum value programmed for the following spindle has been exceeded. Synchronism is at	risk.
Remedy	 Reduce the acceleration of the leading spindles Check the acceleration limit value Obsolution limit for large spindles 	

٠ Check the link factors

Note Applies as from SW 3

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2061*	Aut. contr. corr. of following spindle	Reset key
Cause	An error has occurred which has cancelled "Mode group ready".	
Scan	Cyclic in servo cycle when LINK ON is set	
Effect	 Machining is interrupted Interlocking of NC START Switchover to actual position link 	
Explanation	An axis/spindle within the mode group is subject to an error which usually results in switchover to following axis is not affected by this fault, the link is maintained until the "Delay control has come to an end.	
Remedy	Rectify axis/spindle error.	
Note	Applies as from SW 3	
2065*	Reconfiguration not allowed Acknowledge	ement key
Scan	With RECONFIGURATION using the G function (G401), i.e. when a leading axis is added or remove structure is altered or with CLEAR CONFIGURATION (from NCK).	d, the link
Effect	Interlocking of NC START	
Explanation	7 Reconfiguration permitted not set (MD 525*, bit 1)	
Remedy	Correct input, set MD bit	
Note	Applies as from SW 3	
2066*	GI configuration not allowed Acknowledge	ement key
Scan	When programming DEFINE CONFIGURATION with G function (from NCK).	
Effect	Command is not executedInterlocking of NC START	
Explanation	 Possible causes: Do leading and following axes have a position measuring system (encoders)? Is the following axis linked to itself as a leading axis? Can the axis be a following axis (MD 1844*)? Link structure switchover not permissible (MD 1844*) Link type for the LA/LS not allowed (MD 1456*/496*)? The following axes must always be real available axes, i.e. a measuring circuit (POS encoder) m ned. A measuring circuit must be defined for leading axes/spindles with link structure K2 (actual performance). Not exactly one leading spindle defined for following spindle. One of the axes in the GI grouping is a fictitious transformation axis. No synchronous positions have been defined for on-the-fly synchronization. 	
Remedy	Check configuration	
Note	Applies as from SW 3	
2067*	Change of KF not allowed Acknowledge	ement key
Scan	When entering a new link factor via G function (from NCK).	2
Effect	 Command is not executed, the previous link factor is maintained Interlocking of NC START 	
Explanation	7 The link factor default setting must not be changed (MD 525*, bit 2).	
Remedy	Change default setting if necessary.	
Note	Applies as from SW 3	

2068*	Link factor KF illegal Acknowledgement ke
Scan	When entering a new link factor via G function (from NCK).
Effect	 Command is not executed, the previous link factor is maintained Interlocking of NC START
Explanation	Denominator J=0 programmed
Remedy	Correct link factor
Note	Applies as from SW 3
2069*	Overwriting of position not allowed Acknowledgement ke
Scan	When programming a position with GI command.
Effect	G command not executedInterlocking of NC START
Explanation	GI positions must not be overwritten (enable with MD 525*, bit 3)
Remedy	Correct input
Note	Applies as from SW 3
2070*	Reconfiguration/deletion not allowed Reset kee
Scan	At RECONFIGURATION via G function (G401), i.e. addition, cancellation of a leading spindle or changing a cou- pling structure or on DELETE CONFIGURATION (from NCK).
Effect	Interlocking of NC START; NC Stop, stopping of the channel, command is not executed, JOG mode still possible
Explanation	A RECONFIGURATION or DELETE CONFIGURATION is not allowed without being preceeded by LINK_OFF. Reconfiguration not allowed (MD 525, bit 1) New configuration block; following spindle already exists
Remedy	Precede by LINK_OFF for the specified GI combination.
2073*	Change of link factor KF illegal Reset ke
Scan	When entering a new link factor with G function (from NCK).
Effect	Command is not executed, the previous link factor is maintained. Interlocking of NC Start; NC Stop, channel stop ped: JOG mode still possible.
Explanation	The link factor entered is not in the range $0.00000001 \le /KF / \le 10.000000$ or denominator J=0 or the individual values are so large that internal overflows occur.
Remedy	Correct the link factor KF.
2074*	Change of link factor KF not allowed Reset ke
Scan	When entering a new link factor with G function (from NCK).
Effect	 Command is not executed, the previous link factor is maintained Interlocking of NC START NC STOP Observe la state and a still second basis
Evolopation	Channel is stopped: JOG mode still possible The link factor must not be switched ever from the default active (MDE25t)
Explanation	The link factor must not be switched over from the default setting (MD525*).

Remedy Change default setting if necessary.

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1.5.1 Alarm description

2075* GI configuration not allowed

Scan Effect

Effect

When programming DEFINE CONFIGURATION with G function (from NCK).

Command is not executed

- Interlocking of NC START
- NC STOP
 - Channel stopped: JOG mode still possible

Explanation Possible causes:

- Do leading and following axes have a position measuring system (encoders)?
- Is the following axis linked to itself as a leading axis?
- Can the axis be a following axis (MD 1844*)?
- Link structure switchover not permissible (MD 1844*)
- Link type for the LA/LS not allowed (MD 1456*/496*)?
- The following axes must always be real available axes, i.e. a measuring circuit (POS encoder) must be defi-
- ned. A measuring circuit must be defined for leading axes/spindles with link structure K2 (actual position link).
- Leading axes/spindles and following axis are not in the same mode group.
- Not exactly one leading spindle defined for following spindle.
- One of the axes in the GI grouping is a fictitious transformation axis.
- No synchronous positions have been defined for on-the-fly synchronization.

Remedy Check configuration

Note Applies as from SW 3

2076* Following spindle not defined

Scan When programming a spindle as a following spindle which has not been defined as such (from NCK).

- G command is not executed
 - Interlocking of NC START
 - NC STOP
 - Channel stopped: JOG mode still possible

Explanation A GI grouping with the stated axis as a following spindle does not exist.

Remedy Correct input.

Note Applies as from SW 3

2077* Spindle not in spindle mode

Scan The programmed following spindle has a C axis which has been selected for C axis mode. Effect Command is not executed Interlocking of NC START NC STOP Channel stopped: JOG mode still possible Explanation When programming a following spindle which is assigned to a C axis, this C axis must be in spindle mode. This is not necessary with G401, but a GI grouping must not be defined for the C axis at the same time.

Remedy Correct mode/input.

2078* Leading spindle not defined Reset key Scan When programming a spindle as a leading spindle or an axis as a leading axis which have not been defined as such (from NCK). Effect G command is not executed Interlocking of NC START NC STOP Stop channel: JOG mode is still possible Explanation A GI grouping with the stated axis as a leading axis does not exist Remedy Correct input. Note Applies as from SW 3

Reset key

Reset key

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Reset key

2079*	Overwriting of GI position not allowed	Reset key
Scan	When programming a position with GI command.	
Effect	G command is not executed	
	 Interlocking of NC START NC STOP 	
	Channel stopped: JOG mode still possible	
Explanation	The GI positions must not be overwritten (enabled with MD 525*, bit 3)	
Remedy	Correct input.	
Note	Applies as from SW 3	
2080*	Wrong spindle assignment to channel	Reset key
Scan	When programming a position with GI command.	
Effect	G command is not executed	
	 Interlocking of NC START NC STOP 	
	Channel stopped: JOG mode still possible	
Explanation	The GI command for the following spindle must only be programmed in the channel to which the spin gned	ndle is assi-
Remedy	Change channel or alter assignment.	
Note	Applies as from SW 3	
2081*	Retraction spindle is following spindle	Reset key
Scan	On decoding the retraction command	
Effect	None	
Explanation	Alarm occurs when a following spindle has been defined as retraction spindle because the link is vio retraction. Also, the overlay must be enabled by the PLC.	lated by the
Remedy	Select another retraction spindle.	
Note	Applies as from SW 4	
2082*	Retraction spindle in several channels	Reset key
Scan	On decoding G425/6	
Effect	Machining interrupt	
Explanation	A spindle has been programmed as retraction axis that has already been selected in another channel tion.	el for retrac-
Remedy	Remove spindle from the retraction block.	
Note	Applies as from SW 4	
2084*	IKA path reconfiguration not allowed	Reset key
Scan	When programming G401/G411	
Effect	Interlocking of NC Start Interlocking of NC Stop	
Explanation	 An IKA path has been defined that is already configured. An attempt has been made to delete G411 – an IKA path that is still active. 	
Remedy	Activate an IKA path that is not yet configured. On deselecting: switch IKA inactive.	
2085*	Error in IKA path input/output	Poset kov
Scan	Error in IKA path input/output When programming G410/G411/G412	Reset key
Effect		
Explanation	Interlocking of NC Start, NC Stop If an input/output value is specified with G410/G411/G412 that does not correspond to the configurat	tion or is not
	permissible, this alarm is triggered.	
Remedy	Specify input/output correctly or omit I/O designation with G410.	

2086*	Programmed spindle is slave	Reset key
Scan	 Setpoint specified for a slave spindle Initiate oscillation mode for a slave spindle 	
Explanation	 M19 for a slave spindle Interlocking of NC Start Follow-up mode Cancellation of Mode Group Ready Processing interrupt 	
Explanation	The designated spindle is coupled to its master spindle through a speed setpoint coupling. Setpoints fore not be specified.	should there-
Remedy Note	Setpoints should not be specified for the slave spindle. Applies as from SW 4.4	
2087*	No synchronous/switching positions defined	Reset key
Scan	When synchronizing or switching on in relation to a position from PLC.	-
Effect	Interlocking of NC START, MACHINING STOP	
Explanation	An attempt has been made to synchronize master and slave axes/spindles from PLC, or to switch o reference to a position, without there being any valid switching or synchronizing positions. Synchron switching on with reference to a position is therefore not possible.	
Remedy	For example, specified positions through the GI input display or G403.	
Note	Applies as from SW 4.4	
2088*	Test stop running	Reset key
Note	Alarm description see 1344*	-
2089*	Stop E triggered	Reset key
Note	Alarm description see 1348*	2
2090*	Stop D triggered	Reset key
Note	Alarm description see 1352*	
2091*	Stop C triggered	Reset key
Note	Alarm description see 1356*	Reservey
11010		
2092*	Stop B triggered	Reset key
Note	Alarm description see 1360*	Reset key
NOLE	Alam description see 1500	
2002*	Stop A triggered	Depet key
2093 * Note	Stop A triggered	Reset key
NOLE	Alarm description see 1364*	
2004*		
2094*		POWER ON
Note	Alarm description see 1324*	
_		
2095*	Safe speed exceeded	Reset key
Note	Alarm description see 1328*	

2096 * Note	Safe end position exceeded Alarm description see 1332*	Reset key
2097* Note	Failure in a monitoring channel Alarm description see 1336*	Reset key
100001 Scan Effect Explanation Remedy	Connection to keyboard faulty! When initializing and with every input Entries through operator panel no longer possible Connection between operator panel and MMC CPU interrupted Restore connection	
100002 Scan Effect Explanation Remedy	Operator panel: buffer overflow Permanent MMC crash Operator panel signals are lost None	OK softkey
100003 Scan Effect Explanation Remedy	Operator panel interface not ready Permanently Operator panel cannot be used – Power on	
100005 Scan Effect Explanation Remedy	(Alarm text is variable) – Special error text Depending on operation –	OK softkey
100006 Scan Effect Explanation Remedy	The area is to be terminated - Application is terminated Memory required for another application. The operation can be aborted with softkey ABORT. -	OK softkey
100007 Scan Effect Explanation Remedy	Area could not be terminated - The application has not been terminated Application is still active Terminate application	OK softkey

100008	(Alarm text is variable) OK softkey
Scan	-
Effect	Special error text
Explanation	Explained by context of operation
Remedy	_
100009	The area is terminated OK softkey
Scan	-
Effect	-
Explanation	-
Remedy	-
100202	Error in file structure <%1>
Scan	Data management during job list processing
Effect	Processing job lists interrupted
Explanation	
Remedy	Correct job list
Note	Alarm from SW 6.3
100203	Timeout when executing an application in the job list
Scan	Data management while executing the CALL command in the job list.
Effect	The called application checks back within the WAIT time. Execution of the job list is aborted.
Explanation	
	a part of this CALL instruction. If the application does not check back properly within the projected time frame (file sin840c.ini, Section Datenman, Entry Timeout), the forenamed alarm is issued.
Remedy Note	Check the CALL instruction in the job list to verify that the path and application name are correct. Ascertain whether the application is available on the MMC disk.
NOLE	Alarm from SW 6.3
100204	File <%1> not transferred
Scan	Data management while executing the LOAD command in the job list or if file transfer is initiated in an application with I–Code 421.
Effect	File is not transferred.
	This error occurs in case of incorrect syntax when several part programs are being transferred. Example: Comma omitted in MPF[1,999], i.e. entered as MPF[1999]
Remedy	Correct the syntax
Note	Alarm from SW 6.3
100205	Copying active <%1>
Scan	Data management on inch/metric changeover
Effect	None
Explanation	
Remedy	Not applicable
Note	Alarm from SW 6.3
100206	Workpiece <%1> does not exist
Scan	In the data management with "Reload workpiece upon Power On"
Effect	Workpiece cannot be loaded into the NC.
Explanation	•
Remedy	Copy workpiece back to the MMC disk or establish network connection.
Note	Alarm from SW 6.4

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100400 V.24 transfer initiated

Scan	On initiation of V.24 transfer
Effect	None
Explanation	Initiation of the V.24 transfer is indicated by the issue of this alarm.
Remedy	Acknowledge alarm
Remark	Alarm 100400 is no longer issued from SW 4.4 and 5.1.
Note	Alarm from SW 6.3, not available any more from SW 4.4

100401 V.24 transfer completed

Scan	On completion of the V.24 transfer
Effect	None
Explanation	Completion of the V.24 transfer is indicated by the issue of this alarm.
Remedy	Acknowledge alarm
Remark	Alarm 100401 is no longer issued from SW 4.4 and 5.1
Note	Alarm from SW 6.3, not available any more from SW 4.4

100402 V.24 data output active %0 %1

Scan	Serial communication via V.24
Effect	None
Explanation	On successful initiation of data transfer via V.24 this message is output in the message line.
Remedy	Not applicable
Note	Alarm from SW 6.3

100403 V.24 data output active %0 %1

Scan	Serial communication via V.24
Effect	None
Explanation	On successful initiation of data transfer via V.24 this message is output in the message line.
Remedy	Not applicable
Note	Alarm from SW 6.3

100404 Interface already assigned (Port % 0)

Scan	Serial communication via V. 24
Effect	Data transmission does not take place.
Explanation	The serial interface cannot be opened.
Remedy	Check whether: specified hardware is available Baud rate and other settings are correct interface is already in use
Note	Alarm from SW 6.3

100405 V.24: Call parameter missing/incorrect %0

Scan	Seral communication via V.24
Effect	None
Explanation	The interface parameters are incorrect or missing
Remedy	Check parameters. Permitted parameters are workpiece, program, transmission direction (IN, OUT). Combining the parameters "IN" and device type "Printer" is not allowed.
Note	Alarm from SW 6.3

100406 V.24: ASCII string too long

Scan	Serial communication via V.24
Effect	Transmission is aborted.
Explanation	Line in source file is too long; the maximum permissible length is 255 ASCII characters.
Remedy	Check the source file.
Note	Alarm from SW 6.3

100407 V.24: Invalid path

Scan	Serial communication via V.24
Effect	The file is not transferred
Explanation	The stated file path is incorrect
Remedy	Correct the path
Note	Alarm from SW 6.3

100408 V24: no write access

Scan	Serial communication via V.24
Effect	The file is not transferred
Explanation	An attempt was made to write a write-protected file
Remedy	Remove write access rights
Note	Alarm from SW 6.3

100410 V.24: no free memory available

Scan	Serial communication via V.24
Effect	The file is not transferred.
Explanation	Memory of hard disk is exhausted.
Remedy	Delete files and directories that are no longer required.
Note	Alarm from SW 6.3

100411 V.24: invalid number of digits

Scan	Serial communication via V.24: read in via punched tape
Effect	The file is not transferred
Explanation	The syntax of the file being transferred is incorrect
Remedy	Correct the file name
Note	Alarm from SW 6.3

100412 V.24: object type unknown

Scan	Serial communication via V.24: punched tape format
Effect	The file is not transferred
Explanation	An unknown object type was discovered
Remedy	Correct the data type (correct syntax must be observed, e.g. MPF, SPF, TEA1)
Note	Alarm from SW 6.3

100413 V.24: timeout triggered

Scan	Serial communication via V.24	
Effect	Data not read in or out	
Explanation	No data were read in or retrieved during the parametrized period of time (file par_v24.ini)	
Remedy	Check the communication parameters.	
Note	Alarm from SW 6.3	

100414 V.24: Port cannot be closed (incorrect ID)

Scan	Serial communication via V.24
Effect	Possible communication difficulties
Explanation	Internal error on terminating communication
Remedy	Check OEM application for faulty communication with serial interface
Note	Alarm from SW 6.3

100503 File <%1> not loaded

Scan	When loading servo and drive data
Effect	The file is not transferred
Explanation	The disk does not contain the file to be loaded from among the initial program loader files in directory c:\mmc.001\siem.069\servo.111 or c:\mmc.001\user.005\servo.111.
Remedy	Copy file <%1> to the hard disk
Note	Alarm from SW 6.3

100803 No connection to operator panel

Note	Alarm from SW 6.3	
	 V.24 is functioning latest version of operator panel firmware is available 	
Remedy	 Check whether: the link between the operator panel and MMC is in good condition 	
Explanation	An error occurred while the control was powering up and communication was being established between the oper- ator panel and MMC.	
Effect	Operator panel does not respond	
Scan	On power up of control	

101000 NCK system being loaded

Scan	When NCK system is being loaded
Effect	None
Explanation	Message appears in the red bar when the system is being loaded
Remedy	-

101001 PLC system being loaded

Scan	When PLC system is being loaded
Effect	None
Explanation	Message appears in the red bar when the system is being loaded
Remedy	-

101002 NCK software not available on hard disk

Scan	-	
Effect	NCK is not powering-up: MMC powers up without NCK	
Explanation	•	Required data for loading not available in defined directory
Remedy	•	Install NCK software on MMC

101002 NCK user data being loaded

Scan	When user data are being loaded.
Effect	None
Explanation	Data in user/NC/data directory being loaded
Remedy	
Note	Alarm in SW 5 and higher

101003 Checksum error when booting the NCK

101003	User file not loaded
Note	Applies for SW 2 only
Remedy	 POWER ON Re-install NC software, if necessary
Explanation	Faulty loaded file (wrong checksum or wrong format)
Effect	NCK is not powering-up: MMC powers up without NCK
Scan	-

101003

Scan	At system start
Effect	File in the user/NC/data directory is not loaded.
Explanation	No file operation (read, position,) could be performed on the user file or an error occurred during transfer. In the case of file operations, message 105011 is not issued (a reference to the faulty file operation).
Remedy	Correct the data in the user/NC/data directory.
Note	Alarm in SW 5 and higher

101003 Error in NCK/user/data load

Scan	At system start
Effect	Data in the directory user/NC/data are not loaded into the NCK
Explanation	-
Remedy	Correct data in the directory user/NC/data. Only GIA data (file name GIA) and IKA data (file names IKA1, IKA2, IKA3) should be stored there.
Note	Applies from SW 3 to SW 4.4

101004 MMC–NC data link not ready (log)

Scan	-	
Effect	NCK is not powering-up: MMC powers up without NCK	
Explanation	Software error in transport protocolFaulty loaded file	
Remedy	• POWER ON	

Replace hardware, reinstall software

Remedy

101005 Faulty load list on MM

Scan	-
Effect	NCK is not powering-up: MMC powers up without NCK
Explanation	 Last file when booting is not NCK_SYS
Remedy	Reinstall NCK software on MMC

101006 MMC-NC data link not ready

Scan	_		
Effect	NCK is not powering-up: MMC powers up without NCK		
Explanation	• Internal software error in the data link at driver level		
Remedy	Install new software on MMCReplace hardware		

101008 **Remove EPROM submodule on NC-CPU**

Scan	-
Effect	NCK is not powering-up: MMC powers up without NCK
Explanation	EPROM module is plugged on NC CPU 386
Remedy	• See error message: replace CPU, if necessary (if no RESTART EPROM is plugged)

101200 Insufficient memory for UMS

Scan	On start-up of control
Effect	UMS is not loaded.
Explanation	The UMS (of customer or Siemens) cannot be loaded with the current memory configuration because it is larger than the setting in NC MD 60000 (from SW 4; fixed setting 512 KB until SW 3)
Remedy	Change memory configuration (from SW 4); set machine data MD 60000 accordingly!
Note	Alarm from SW 6.3

101201 Standard memory configuration - error in configuration file

Scan	On start-up of control after data loss
Effect	Booting with standard configuration
Explanation	Memory configuration could not be loaded and activated. Error in user configuration.
Remedy	Create new user configuration
Note	Alarm from SW 6.3

File <%1> not transferred 101202

Scan	Start-up of control if the user wishes to load files to the NC using load840c.ini
Effect	File %1 is not transferred to the NC
Explanation	The user entered the names of the files he wishes to load to the NC in the file called load840c.ini. One of the files cannot be transferred.
Remedy	Check file name (including path)
Note	Alarm from SW 6.3

102000 Directory does not exist on harddisk Scan • When displaying a data selector in MMC

Effect Reset to configured initial state of data selector Explanation • The data selector tries to display an area no longer available in the data management _

OK softkey

1 Alarms 1.5.1 Alarm description

102010	Configuring error	OK softkey
Scan	First display of a data selector in MMC	
Effect	Empty display	
Explanation	Possibly a consequential error, since data selector cannot work in the services, diagnosis, pro	gramming area
Remedy	Check/change configuration of UMS/FUMS.	
102013	Only of elements displayed	OK softkey
Scan	When data selector is called	
Effect	Data only partially displayed	
Explanation	Quantity of displayed data limited internally	
Remedy	-	
103000	DUAL PORT RAM error!	
Scan	-	
Effect	-	
Explanation	Hardware problem or incorrectly installed by OEM	
Remedy	Replace hardware if necessary	
104000	Maximum line length reached	OK softkey
Scan	When inputting/inserting in the ASCII editor on MMC	2
Effect	Operation is not executed	
Explanation	The maximum line length of the ASCII editor is exceeded	
Remedy	Shorter lines	
104001	Search text not found	OK softkey
Scan	When searching	-
Effect	None	
Explanation	The ASCII editor in the MMC outputs a message that the search for a character string has not bee	n successful.
Remedy	-	
104002	File cannot be opened	OK softkey
Scan	When displaying an ASCII editor in MMC	-
Effect	Empty display in ASCII editor	
Explanation	ASCII editor cannot find the file to be processed in the data management	
Remedy	None	
104004	Buffer is empty	OK softkey
Scan	ASCII editor when pasting from clipboard	-
Effect	Operation is not executed	
Explanation		The clipboard,
Pomodu	however, is empty, not available or faulty. Possibly an operating error	
Remedy	Other operator actionFill clipboard	

104005	Caution File has lines which are too long	OK softkey
Scan	When reading in file	
Effect	Line wrapround with LF	
Explanation	Line length > 128 characters (as from SW 4: > 256 characters)	
Remedy	-	
Note	Applies up to SW 4.5	
104005	File or harddisk failure	OK softkey
Scan	in ASCII editor	
Effect	Operation aborted.	
Explanation	An error has occurred in the editor during a write/read operation on the hard disk.	
Remedy	Perform chkdisk; replace MMC	
Note	Aplies as from SW 5	
104006	The hard disk is full	OK softkey
Scan	When expanding the current file in ASCII editor	•···•,
Effect	Operation is aborted	
Explanation	•	
Remedy	Reduce number of files on the hard disk.	
Note	Applies up to SW 4.4	
104006	File, cannot be processed further	OK oftkey
104006 Scan	File cannot be processed further	OK oftkey
Scan	File cannot be processed further ASCII editor	OK oftkey
Scan Effect	ASCII editor	OK oftkey
Scan Effect	ASCII editor Possible causes are 1. File is \geq 8 MB	OK oftkey
Scan Effect	ASCII editor Possible causes are	OK oftkey
Scan Effect Explanation	ASCII editor Possible causes are 1. File is \geq 8 MB 2. File \geq 8 MB was processed further 3. Hard disk is full 4. Hard disk error	OK oftkey
Scan Effect	ASCII editor Possible causes are 1. File is \geq 8 MB 2. File \geq 8 MB was processed further 3. Hard disk is full 4. Hard disk error • for 1, 3, 4: exit file without saving	OK oftkey
Scan Effect Explanation Remedy	ASCII editor Possible causes are 1. File is ≥ 8 MB 2. File ≥ 8 MB was processed further 3. Hard disk is full 4. Hard disk error • for 1, 3, 4: exit file without saving • for 2: changes made up to this message can be saved.	OK oftkey
Scan Effect Explanation	ASCII editor Possible causes are 1. File is \geq 8 MB 2. File \geq 8 MB was processed further 3. Hard disk is full 4. Hard disk error • for 1, 3, 4: exit file without saving	OK oftkey
Scan Effect Explanation Remedy Note	ASCII editor Possible causes are 1. File is $\geq 8 \text{ MB}$ 2. File $\geq 8 \text{ MB}$ was processed further 3. Hard disk is full 4. Hard disk error • for 1, 3, 4: exit file without saving • for 2: changes made up to this message can be saved. Applies as from SW 4.4	
Scan Effect Explanation Remedy Note 104007	ASCII editor Possible causes are File is ≥ 8 MB File ≥ 8 MB was processed further Hard disk is full Hard disk error for 1, 3, 4: exit file without saving for 2: changes made up to this message can be saved. Applies as from SW 4.4 Line wrapround due to excessively long lines	OK oftkey OK softkey
Scan Effect Explanation Remedy Note 104007 Scan	ASCII editor Possible causes are 1. File is $\geq 8 \text{ MB}$ 2. File $\geq 8 \text{ MB}$ was processed further 3. Hard disk is full 4. Hard disk error • for 1, 3, 4: exit file without saving • for 2: changes made up to this message can be saved. Applies as from SW 4.4	
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Scan Effect Explanation Remedy Note 104007 Scan Effect Explanation Remedy	ASCII editor Possible causes are I. File is ≥ 8 MB File ≥ 8 MB was processed further Hard disk is full Hard disk error for 1, 3, 4: exit file without saving for 2: changes made up to this message can be saved. Applies as from SW 4.4 Line wrapround due to excessively long lines When reading in file Line length > 128 characters (as from SW 4: > 256 characters)	OK softkey
Scan Effect Explanation Remedy Note 104007 Scan Effect Explanation Remedy 104008	ASCII editor Possible causes are File is ≥ 8 MB File ≥ 8 MB Ascine ≥ 8 MB was processed further Hard disk is full Hard disk error for 1, 3, 4: exit file without saving for 2: changes made up to this message can be saved. Applies as from SW 4.4 Line wrapround due to excessively long lines When reading in file Line length > 128 characters (as from SW 4: > 256 characters) Save not possible at present time	OK softkey
Scan Effect Explanation Remedy Note 104007 Scan Effect Explanation Remedy 104008 Scan Effect	ASCII editor Possible causes are I. File is ≥ 8 MB File ≥ 8 MB was processed further Hard disk error I. File ≥ 8 MB was processed further I. Hard disk error I. for 1, 3, 4: exit file without saving I. for 2: changes made up to this message can be saved. Applies as from SW 4.4 Line wrapround due to excessively long lines When reading in file	OK softkey
Scan Effect Explanation Remedy Note 104007 Scan Effect Explanation Remedy 104008 Scan Effect	ASCII editor Possible causes are I. File is ≥ 8 MB File ≥ 8 MB File ≥ 8 MB File is ≥ 8 MB File is not saved Applies as from SW 4.4 Applies as from SW 4.5 Applies as	OK softkey

104009	File cannot be loaded into NCKOK softkey
Scan Effect	With SK Save and Load in NCK
Explanation	Operation is aborted An error has occurred while loading the file into the NCK.
Explanation	Possible causes: File type cannot be loaded into NCK; incorrect keyswitch position; no communication with NCK.
Note	Alarm in SW 5 and higher
105000	MMC power up
Scan	Power up
Effect	None
Explanation	Time of MMC power is up noted in log
Remedy	No error
105001	Too many messages
Scan	On setting alarms/messages
Effect	New alarm occurrences are not indicated until further alarms are acknowledged.
Explanation	There are too many unacknowledged alarms/messages and a new alarm/message needs to be issued.
Remedy	Cancel alarms/messages (Power on) or increase the number of alarms in the file alarm.ini
	[Alarm] Entries= <no. alarms="" of="">, value < increase number of alarms</no.>
Note	If the file alarm.ini does not exist or if no value is entered, the default for <no. alarms="" of=""> is 500.</no.>
Note	Alarm from SW 6.3
105002	No communication to NCK!
Scan	Power up
Effect	MMC power up without NCK
Explanation	A more detailed error diagnostic is entered in the log with alarm 105011. Wrong MD, e.g. too short IPO cycles, control overloaded because of incorrect parameterization.
Remedy	Check NCK driver, POWER ON
105003	NCK failed with error
Scan	Power up
Effect	Alarm 105005 is also output —> see alarm 105005
Explanation	[EPROM_ERROR]: EPROM error [DRAM_ERROR]: DRAM error detected during power up [DRAM_PROG_ERROR]: DRAM system program error
Remedy	POWER ON, replace NCK hardware if necessary
105004	NCK reset – please wait
Scan	Power up, with inch/metric switchover.
Effect	System can temporarily not be operated
Explanation	
Remedy	Wait until NCK reset is completed and message disappears
Note	Alarm from SW 6.3
105005	Please initiate NCK reset
Scan	Power up
Effect	NCK cannot be operated
	Interlocking of NC START
Explanation	MMC crash and subsequent power up does not cause the operating program to be interrupted . For safety reasons an NCK RESET must be initiated at a suitable time. An NCK system error has occurred. For more detailed diagnosis refer to messages 105003 or 105020.
Remedy	Initiate NCK RESET

105006 105006 Scan Effect Explanation Remedy	System crash – Please switch control off/on III System crash – reboot III Power up MMC is rebooted after 5 seconds Either applications or the operating system has crashed or there is an MMC hardware fault POWER ON	POWER ON POWER ON
105007 Scan Effect Explanation Remedy	Operator system initialization failed Power up No power up of MMC Internal system error during power up Inform system service	POWER ON
105008 Scan Effect Explanation Remedy	Hardware error: - Alarm 105006 is also output —> see alarm 105006 DPR driver recognizes NMI because of a MMC hardware error: I/O channel check error or RAM POWER ON	parity error
105009 Scan Effect Explanation Remedy	UMS too large → UMS not loaded Power up UMS does not load The UMS (customer or Siemens UMS) cannot be loaded with the current memory configuration greater than in NC–MD 60000 (as from SW 4; up to SW 3, 512 kB fixed). Change the memory configuration (as from SW 4); set MD 60000 accordingly.	OK softkey
105010 Scan Effect Explanation Remedy	Master control initialization failed! Power up No power up of MMC Internal system error during power up Inform system service	POWER ON
105011 Scan Effect Explanation Remedy	Internal error: – Alarms 105002, 105012 or 105013 are also output —> see these alarms Internal system error See alarms 105002, 105012 and 105013	OK softkey
105012 Scan Effect Explanation Remedy	Error in UMS → UMS not loaded Power up UMS does not load More detailed error diagnostics are entered in the log with message 105011 Check customer UMS, POWER ON	OK softkey

105013	Standard UMS cannot be loaded	POWER ON
Scan	Power up	
Effect	The MMC system boots up without NCK	
Explanation	The Siemens configuration file NCMEMCFG.020 does not exist. When transferring the standard error occurred or the NCK signals an error in memory configuration.	configuration, an
Remedy	New system software	
105014	Operator panel initialization failed	POWER ON
Scan	Power up	
Effect	No power up of MMC	
Explanation		
Remedy	Check whether serial driver has been loaded, POWER ON	
rtemetay		
105015	There is no directory for temporary files!	POWER ON
Scan	Power up	
Effect	No power up of MMC	
Explanation	There is no directory for temporary files in the data management	
Remedy	Reload MMC software	
105017	Boot file cannot be loaded	OK softkey
Scan	When loading from NCK, PLC or SIMODRIVE 611–D	
Effect	-	
Explanation	_	
, Remedy	_	
Note	Applies up to SW 4	
105017	System file not loaded Acknowle	dgement key
Scan	While loading NCK/PLC or SIMODRIVE 611D.	0)
Effect	MMC powers up without NCK and message 105002 appears.	
Explanation	No file operation (read, position,) could be performed on system file or an error has occurred sion. Message 105011 – reference to incorrect file operation – also missing during file operation.	d during transmis-
Remedy	Notify system service.	
Note	Applies as from SW 5	
105018 Scan	Error in memory configuration \rightarrow standard configuration loaded	OK softkey
Effect	Boot with standard configuration	
Explanation	-	
Remedy	Create new customer configuration	
. tomody		
105020	NCK crash 10 following lines	POWER ON
Scan	Permanent	
Effect		
Ellect	The register dump for alarms 105031 – 105039 is written into the log Alarm 105005 has also been output —> see alarm 105005	
Fxplanation	NCK has crashed and has saved register dump	
Remedy	Report register dump from alarm log to Siemens Service, POWER ON	
. comody	Report regions during normaliant log to chemens dervice, i Ovvert Orv	

105030	Except 386–Error Task
105031	CS: EIP:
105032	SS: ESP:
105033	EFLAGS:
105034	DS: ES:
105035	FS: GS:
105036	EAX: EBX:
105037	ECX: EDX:
105038	ESI: EDI:
105039 Scan Effect Explanation Remedy	EBP: LDTR: CR0: Permanent See alarm 105020 Under these alarm numbers the register contents of the NCK crash is entered in the alarm list See alarm 105020 Note: These alarms are displayed only for a short period of time. They are entered in the alarm list.
Scan Effect Explanation	Permanent See alarm 105020 Under these alarm numbers the register contents of the NCK crash is entered in the alarm list See alarm 105020 Note: These alarms are displayed only for a short period of time. They are entered in the alarm list. Wrong text number for message no Power up Text number 0 understood.

105042	Incorrect reference to dialog description for no	Acknowledgement key
Scan	Power up	
Effect	Reference set to the first dialog description.	
Explanation	Error during conversion of ASCII files. A message has a reference to a dialog descr the number of dialog descriptions.	iption greater than or equal to
Remedy	Eliminate error in the alarm configuration	
Note	SW 5 and higher	
105043	Message no neither dialog nor message	Acknowledgement key
Scan	Power up	
Effect	Value 0 understood.	
Explanation	Error during conversion of ASCII files. The third from last parameter of the message message line, 1 for dialog box)	e description is not 0 or 1 (0 for
Remedy	Eliminate error in the alarm configuration.	
Note	SW 5 and higher	
105044	Syntax error in message configuration	Acknowledgement key
Scan	Power up	
Effect	Binary files have been read from the Siemens branch.	
Explanation	Error during conversion of ASCII files. The converter could not interpret the messag The binary files from the Siemens branch have been read in.	e attribute/message text files.
Remedy	Eliminate error in the alarm configuration.	
Note	SW 5 and higher	
105045	No communication to PLC	
Scan	Permanently	
Scan Effect	Permanently MMC cannot communicate with PLC	
Effect	-	
Effect	MMC cannot communicate with PLC	
Effect Explanation	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun	
Effect Explanation	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun	
Effect Explanation Remedy	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service.	
Effect Explanation Remedy 105046	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service. PLC failed with error	
Effect Explanation Remedy 105046 Scan	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service. PLC failed with error Permanently If the PLC signals an error, the error number is entered in the alarm log	
Effect Explanation Remedy 105046 Scan Effect	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service. PLC failed with error Permanently If the PLC signals an error, the error number is entered in the alarm log	
Effect Explanation Remedy 105046 Scan Effect Explanation	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service. PLC failed with error Permanently If the PLC signals an error, the error number is entered in the alarm log Used for logging the PLC error number	
Effect Explanation Remedy 105046 Scan Effect Explanation Remedy	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service. PLC failed with error Permanently If the PLC signals an error, the error number is entered in the alarm log Used for logging the PLC error number Report error no. to Siemens, log module	
Effect Explanation Remedy 105046 Scan Effect Explanation Remedy 105047	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service. PLC failed with error Permanently If the PLC signals an error, the error number is entered in the alarm log Used for logging the PLC error number Report error no. to Siemens, log module PLC Reset – please wait	
Effect Explanation Remedy 105046 Scan Effect Explanation Remedy 105047 Scan	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service. PLC failed with error Permanently If the PLC signals an error, the error number is entered in the alarm log Used for logging the PLC error number Report error no. to Siemens, log module PLC Reset – please wait Permanently	
Effect Explanation Remedy 105046 Scan Effect Explanation Remedy 105047 Scan Effect	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service. PLC failed with error Permanently If the PLC signals an error, the error number is entered in the alarm log Used for logging the PLC error number Report error no. to Siemens, log module PLC Reset – please wait Permanently No communication possible with PLC at the moment	dissappears after a short time
Effect Explanation Remedy 105046 Scan Effect Explanation Remedy 105047 Scan Effect Explanation	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service. PLC failed with error Permanently If the PLC signals an error, the error number is entered in the alarm log Used for logging the PLC error number Report error no. to Siemens, log module PLC Reset – please wait Permanently No communication possible with PLC at the moment	dissappears after a short time
Effect Explanation Remedy 105046 Scan Effect Explanation Remedy 105047 Scan Effect	 MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service. PLC failed with error Permanently If the PLC signals an error, the error number is entered in the alarm log Used for logging the PLC error number Report error no. to Siemens, log module PLC Reset – please wait Permanently No communication possible with PLC at the moment This alarm is displayed while communication is started, e.g. after a link bus reset. It 	dissappears after a short time
Effect Explanation Remedy 105046 Scan Effect Explanation Remedy 105047 Scan Effect Explanation Remedy	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service. PLC failed with error Permanently If the PLC signals an error, the error number is entered in the alarm log Used for logging the PLC error number Report error no. to Siemens, log module PLC Reset – please wait Permanently No communication possible with PLC at the moment This alarm is displayed while communication is started, e.g. after a link bus reset. It Wait	dissappears after a short time
Effect Explanation Remedy 105046 Scan Effect Explanation Remedy 105047 Scan Effect Explanation Remedy 105048	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service. PLC failed with error Permanently If the PLC signals an error, the error number is entered in the alarm log Used for logging the PLC error number Report error no. to Siemens, log module PLC Reset – please wait Permanently No communication possible with PLC at the moment This alarm is displayed while communication is started, e.g. after a link bus reset. It Wait	dissappears after a short time
Effect Explanation Remedy 105046 Scan Effect Explanation Remedy 105047 Scan Effect Explanation Remedy 105048 Scan	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service. PLC failed with error Permanently If the PLC signals an error, the error number is entered in the alarm log Used for logging the PLC error number Report error no. to Siemens, log module PLC Reset – please wait Permanently No communication possible with PLC at the moment This alarm is displayed while communication is started, e.g. after a link bus reset. It Wait Text in not available After Power On	
Effect Explanation Remedy 105046 Scan Effect Explanation Remedy 105047 Scan Effect Explanation Remedy 105048 Scan Effect	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service. PLC failed with error Permanently If the PLC signals an error, the error number is entered in the alarm log Used for logging the PLC error number Report error no. to Siemens, log module PLC Reset – please wait Permanently No communication possible with PLC at the moment This alarm is displayed while communication is started, e.g. after a link bus reset. It Wait Text in not available After Power On A language which is not available has been set in the config file in the master control	
Effect Explanation Remedy 105046 Scan Effect Explanation Remedy 105047 Scan Effect Explanation Remedy 105048 Scan Effect Explanation	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service. PLC failed with error Permanently If the PLC signals an error, the error number is entered in the alarm log Used for logging the PLC error number Report error no. to Siemens, log module PLC Reset – please wait Permanently No communication possible with PLC at the moment This alarm is displayed while communication is started, e.g. after a link bus reset. It Wait Text in not available After Power On A language which is not available has been set in the config file in the master control Siemens settings apply	
Effect Explanation Remedy 105046 Scan Effect Explanation Remedy 105047 Scan Effect Explanation Remedy 105048 Scan Effect	MMC cannot communicate with PLC Communication with PLC aborted after an error or time overrun Check whether module is slotted in, notify Service. PLC failed with error Permanently If the PLC signals an error, the error number is entered in the alarm log Used for logging the PLC error number Report error no. to Siemens, log module PLC Reset – please wait Permanently No communication possible with PLC at the moment This alarm is displayed while communication is started, e.g. after a link bus reset. It Wait Text in not available After Power On A language which is not available has been set in the config file in the master control	

105049 Operator panel interface ... faulty

Scan	After Power On
Effect	An interface which does not exist has been set in the config file of the master control
Explanation	Siemens settings apply
Remedy	Set correct interface and Power On

105050 Keyword unknown in line ... (master control)

ScanAfter Power OnEffectAn unknown keyword is in the config file of the master controlExplanationLine is ignoredRemedyCorrect and Power On

105051 Wrong value in ... line (master control)

Scan	After Power On
Effect	An incorrect value stands behind the keyword in the config file of the master control
Explanation	Interpreted as value 0
Remedy	Correct and Power On

105052 Text too long in line ... (master control)

Scan	After Power On
Effect	A string is too long in the config file of the master control
Explanation	Line is ignored
Remedy	Correct and Power On
Explanation	Line is ignored

105053 Missing value in line ... (master control)

Scan	After Power On
Effect	The value behind the keyword is missing in the config file of the master control
Explanation	Line is ignored
Remedy	Correct and Power On

105054 Too many masks in line ... (master control)

ScanAfter Power OnEffectThere are too many masks for registering the alarms to be entered in the log in the config file of the master controlExplanationLine is ignoredRemedyReduce number of masks and Power On

105055 Log ... created new

Scan	Power up
Effect	Old entries have been deleted.
Explanation	The existing log (alarm log = 1, service log = 2) could no longer be accessed.
Remedy	-
Note	Applies as from SW 4

OK softkey

OK softkey

105056 Log ... cannot be created

Scan	Power up
Effect	Power up without log
Explanation	It was not possible to create a log file (alarm log = 1, service log = 2) (disk defective or full).
Remedy	Check disk
Note	Applies as from SW 4

105057 CAUTION: Virus alarm!!!

Scan	On powering up control after SysLock triggered a virus alarm
Effect	None
Explanation	If the program SysLock finds that the size of the main memory has changed since its first initialization, a virus alarm is triggered.
Remedy	If this virus alarm is triggered, the system has to be examined and decontaminated with a virus scanner. In order to allow the virus scanner to work properly, it is essential that the system is started up with a boot disk that is not infected with a virus.
Note	Alarm from SW 6.3

106000 Listing texts ... cannot be read

Scan	MMC power up
Effect	Listing texts cannot be used.
Explanation	An essential system file cannot be read.
Remedy	Notify service.
Note	Applies as from SW 4

106001 Listing ... being prepared

Scan	Selection of a listing
Effect	The selected listing is prepared just once.
Explanation	This text simply provides information and is intended to explain a delay that might occur. When selecting the same listing again, this does not have to be prepared again.
Remedy	Wait until the message disappears again.
Note	Applies as from SW 4

106002 ... is being read

	•
Scan	File functions MDD
Effect	A data block is being read in from harddisk.
Explanation	This text simply provides information and is intended to explain a delay that might occur.
Remedy	Wait until the message disappears again.
Note	Applies as from SW 4

106003 ...: Error in data block ...

Scan	File functions MDD
Effect	A data block has not been completely read in.
Explanation	A data block read in from harddisk (so-called punched tape format) contains an error.
Remedy	Correct the error as far as possible and repeat the process.
Note	Applies as from SW 4

106004	: This data area on-line only	OK softkey
Scan	File functions MDD with user pictures.	,
Effect	This function is not possible.	
Explanation		rage on harddisk
Remedy	Correct the error as far as possible and repeat the process.	
Note	Applies as from SW 4	
106005	Memory overflow	OK softkey
Scan	File functions MDD	2
Effect	Function is aborted	
Explanation	The main memory (RAM) is full	
Remedy	End another application and repeat the process.	
Note	Applies as from SW 4	
400000		
106006	Harddisk full	OK softkey
Scan Effect	File functions MDD	
	Function is aborted	
•	The harddisk is full	
Remedy	Delete another file and repeat the process.	
Note	Applies as from SW 4	
106007	MD error:	OK softkey
Scan	Individual fields with machine data	
Effect	Function is aborted	
Explanation	Input or configuring error	
Remedy	-	
Note	Applies as from SW 4	
110000	No data can be created here	OK softkey
Scan	FUNCTION / NEW	,
Effect	-	
	No new data can be created by the user in the current directory	
Remedy	Select another directory	
	······,	
440004		
110001	Please enter correct name	OK softkey
Scan	MANAGEMENT / COPY / PASTE / OK	
Effect		
Explanation	The entered name can only contain letters, numbers or underline. For part program %3 = MPF3<3 length of the file name must be no more than 8 characters.	= SPF3. The
Remedy	Correct the name	
-		
110002	Name already exists	OK softkey
Scan	COPY / PASTE	Si Sonney
Effect		
	- The entered name already exists for the data type	
Explanation Remedy	The entered name already exists for the data type Enter a different name	
nemedy		

110003	Data cannot be created	OK softkey
Scan	COPY / PASTE / OK	
Effect	Data are not created	
	Data type can only be created once	
Remedy	Select a different data object type	
110004	No data selected	OK softkey
Scan	In the SERVICES area with data selection	
Effect	-	
Explanation	The data selector is positioned on the directory or -	
Remedy	Select with the cursor	
110005	No read access for this data	OK softkey
Scan	DATA MANAGEMENT / COPY / COPY / DATA IN-OUT / PRINT / START	OR SOURCY
Effect	Data cannot be processed	
Explanation		
Remedy	Set a password, enable keyswitch	
rioniouy		
110006	No write access at this point	OK softkey
Scan	DATA MANAGEMENT / NEW / OK / COPY / PASTE	
Effect	Data cannot be created/copied or written	
•	No authorization to write the selected data exists for the set user class	
Remedy	Set a password, enable keyswitch	
110007	Data must not be deleted	OK softkey
Scan	MANAGEMENT / DELETE / OK	
Effect	Data are not deleted	
-	No authorization to delete the selected data exists for the set user class, i.e. they cannot be delete	ed at all
Remedy	Set a password, enable keyswitch	
110008	Selected data cannot be edited	OK softkey
Scan	MANAGEMENT / EDIT	
Effect	Editor is not started	
Explanation	The selected data cannot be edited (e.g. a directory)	
Remedy	Select alternative data	
110009	No interface file	OK softkey
Scan	_	-
Effect	The interface is not parameterized and can therefore not be used.	
Explanation		
Remedy	Select or create valid interface	
-		

110010 Scan Effect	Workpiece archiving in punch tape format only DATA IN-OUT / DATA OUTPUT / WORKPIECES	OK softkey
	A workpiece or job list can only be archived in punch tape format Select punch tape format via toggle field	
110011 Scan Effect	There is no error log Error log None	OK softkey
	No error log was created for the previous data transfer	
110012 Scan Effect	Selected data cannot be printed DATA IN-OUT / PRINT -	OK softkey
Explanation Remedy	Selected data cannot be printed Select data (e.g. MPF) which can be printed	
110013 Scan Effect Explanation Remedy	There is no job list for printer DATA IN-OUT / PRINT / JOB LIST - The printer has no job to process at the moment -	OK softkey
110015 Scan Effect Explanation Remedy	Floppy was not formatted DATA IN-OUT / FORMAT / OK Diskette not formatted General error during formatting Check disk drive/cable	OK softkey
110016 Scan Effect Explanation Remedy	Floppy is write-protected DATA IN-OUT / DATA OUTPUT / / START (INSERT NEXT DISKETTE)OK DATA IN-OUT / FORMAT / OK Data are not stored or diskette is not formatted The diskette tab is in the wrong position Remove write-protection or insert another diskette	OK softkey
110017 Scan Effect	No floppy inserted DATA IN-OUT / DATA OUTPUT / / START DATA IN-OUT / DATA INPUT / START (INSERT NEXT DISKETTE) OK DATA IN-OUT / FORMAT / OK	OK softkey
Explanation Remedy	There is no diskette in the floppy disk drive Insert diskette	

110018	Interface not initialized	OK softkey
Scan	DATA IN-OUT / DEVICES / SELECTION	en conney
Effect	Data transfer not possible	
Explanation		
Remedy	Select suitable interface file and reparameterize. If floppy selected, floppy drive must be connected	d to interface.
rtomouy		
110019	Observe error log	OK softkey
Scan	DATA IN-OUT / (INPUT OR OUTPUT)	ON SOURCY
Effect		
	Errors occurred during data transfer. The data concerned are listed in the logs and must be check	od
LAplanation	Cause: Data already exist, overwriting not desired. No read/write authorization when reading in again, incorrect punch tape format	eu.
Remedy	Rectify the cause (if possible) and read in again	
2		
110000		
110020	Floppy is not formatted	OK softkey
Scan	DATA IN-OUT / (INPUT OR OUTPUT) / START (INSERT NEXT DISKETTE) OK	
Effect	Data are not read in/written	
Explanation	The floppy is either not formatted or incorrectly formatted	
Remedy	Insert formatted diskette	
110021	Error on reading the archive	OK softkey
Scan	DATA IN-OUT / DATA INPUT / START	
Effect	Data are not read	
Explanation	Archive file is faulty	
Remedy	-	
-		
110022	No workpiece selected	OK softkey
Scan	LOAD NC / SHOPFLOOR SHEET	en connog
Effect	No display	
	Selected data are not workpieces	
Remedy	Select workpiece under LOCAL or GLOBAL	
Romody		
110023	There are no comments for	OK softkey
Scan	LOAD NC / SHOPFLOOR SHEET / COMMENT	
Effect	-	
Explanation	No comment available for current workpiece	
Remedy	Enter comment in program	
110024	Archive list/job list is empty	OK softkey
Scan	DATA IN-OUT / DATA OUTPUT / ARCHIVE LIST	-
Effect	No data are being read out	
Explanation	No object in the archive list can be accessed	
Remedy	Check archive list	
-		

110025 Scan Effect Explanation Remedy	Floppy is full DATA IN-OUT / DATA OUTPUT / / START Wait The diskette is full Insert another diskette, continue by pressing the OK softkey	OK softkey
110026 Scan Effect Explanation Remedy	Archive not created or not found DATA IN-OUT / DATA INPUT / START DATA IN-OUT / DATA OUTPUT / / START - The archive has not been written or no archive has been found Read in: Transfer another archive Read out: Check data/archive or job list/transfer format	OK softkey
110027 Scan Effect Explanation Remedy	is not an archive file DATA IN-OUT / DATA OUTPUT / ARCHIVE LIST – The selected data is not an archive list Select archive list with data selector	OK softkey
110028 Scan Effect Explanation Remedy	No machining operation for LOAD NC / SHOPFLOOR SHEET / MACHINING OPERATION None The selected workpiece does not have a machining operation Create data	OK softkey
110029 Scan Effect Explanation Remedy	Not a hexadecimal number DATA IN-OUT / DEVICES / EDIT / STORE Data cannot be stored Hexadecimal number: a–f, A–F, 0–9 Correct	OK softkey
110030 Scan Effect Explanation Remedy	Not a decimal number DATA IN-OUT / DEVICES / EDIT / STORE Data cannot be stored/softkey operation cannot be executed Decimal number: 0–9 without sign Correct	OK softkey
110031 Scan Effect Explanation Remedy	Interface still transmitting data DATA IN-OUT / DEVICES / SELECTION Interface selection still being executed Interface selection not possible during output (e.g. printing) Delete print jobs or wait	OK softkey

110032	Error in archive file	OK softkey
Scan	DATA IN-OUT / DATA INPUT / START	ON SOURCY
Effect	Data are either not read in or are read in with errors	
	Archive list is faulty	
Remedy	Correct	
Remeay	Conect	
110033	Error on writing the archive	OK softkey
Scan	DATA IN-OUT / DATA OUTPUT / / START	
Effect	Data read out has been interrupted	
•	Data is not evaluated by output medium (external device) (hardware fault)	
Remedy	Start again	
110034	Timeout >= 0 and <= 60 seconds	OK softkey
Scan	DATA IN-OUT / DEVICES / EDIT / STORE DATA IN-OUT / DEVICES / SELECTION	-
Effect	Data cannot be stored/no device selection	
Explanation	Time must be in the specified range	
Remedy	Enter $0 \le time \le 60$ seconds	
-		
110035	Wrong output medium parameterized	OK softkey
Scan	DATA IN-OUT / FORMAT DATA IN-OUT / PRINT	,
Effect	None	
	Parameterized floppy cannot be formatted, print command cannot be sent to parameterized unive	rsal interface
Remedy	Change interface parameterization	
rtomody		
440000		
110036	No data for	OK softkey
Scan	LOAD NC / SHOPFLOOR SHEET / WORK SCHEDULE / MACHINING OPERATION LOAD NC / SHOPFLOOR SHEET / WORK SCHEDULE LOAD NC / SHOPFLOOR SHEET / BLANK	
Effect	None	
Explanation	The corresponding data for the shopfloor sheet is not available	
Remedy	Create data	
-		
110037	The hard disk is full	OK coftkov
Scan		OK softkey
Scan	DATA MANAGEMENT / COPY / COPY / DATA IN-OUT / DATA INPUT / START / SAVE NC / SOURCE NC / START	
Effect	Data cannot be stored or created	
Explanation	-	
Remedy	Delete data no longer required	
110038	Syntax error in job list line	OK softkey
Scan	LOAD NC / START	5 y
	DATA IN-OUT / DATA OUTPUT / WORKPIECES / START	
Effect	Data are not archived/loaded into the NC	
Explanation	Syntax error in job list	
Remedy	Correct	

OK softkey

-	Data cannot be copied	ON SURREY
Scan	MANAGEMENT / COPY / PASTE / OK	
Effect	Data are not copied	
Explanation	General error, e.g. data type may exist only once	
Remedy	E.g. delete data beforehand	
110011	Error in NCK nome	OK aaftkav
110041	Error in NCK name	OK softkey
Scan	DATA IN-OUT / DATA INPUT / START	
Effect	Data in punch tape format are not read in their entirety	
Explanation	With data I/O in punch tape format the name is transmitted first. NCK data must begin with %MPF, %TEA, %SEA, %UMS, %RPA	%SPF, %TOA,
Remedy	Alter external data	
110042	Syntax error in UMS file	OK softkey
Scan	DATA IN-OUT / DATA INPUT / START	-
Effect	UMS file has been read in incorrectly	
Explanation	,	
Remedy		
Remeay	Change external data	
110043	Please use the proposed name	OK softkey
Scan	MANAGEMENT / NEW / OK	-
Effect	Data are not created	
Explanation		
Romody	Lise the proposed name	
Remedy	Use the proposed name	
Remedy		
Remedy 110044	Use the proposed name Too many print jobs in queue	OK softkey
-		OK softkey
110044	Too many print jobs in queue	OK softkey
110044 Scan Effect	Too many print jobs in queue DATA IN-OUT / PRINT / START	OK softkey
110044 Scan Effect	Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer	OK softkey
110044 Scan Effect Explanation	Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited	OK softkey
110044 Scan Effect Explanation Remedy	Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited Wait for the next print job to be completed or remove a print job from the job list	
110044 Scan Effect Explanation Remedy 110045	Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited Wait for the next print job to be completed or remove a print job from the job list signals transmission fault	OK softkey OK softkey
110044 Scan Effect Explanation Remedy 110045 Scan	Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited Wait for the next print job to be completed or remove a print job from the job list signals transmission fault DATA IN-OUT / (DATA INPUT OR OUTPUT)	
110044 Scan Effect Explanation Remedy 110045 Scan Effect	Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited Wait for the next print job to be completed or remove a print job from the job list signals transmission fault DATA IN-OUT / (DATA INPUT OR OUTPUT) Data have either not been transferred at all or only partially or incorrectly	
110044 Scan Effect Explanation Remedy 110045 Scan	Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited Wait for the next print job to be completed or remove a print job from the job list signals transmission fault DATA IN-OUT / (DATA INPUT OR OUTPUT) Data have either not been transferred at all or only partially or incorrectly	
110044 Scan Effect Explanation Remedy 110045 Scan Effect	Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited Wait for the next print job to be completed or remove a print job from the job list signals transmission fault DATA IN-OUT / (DATA INPUT OR OUTPUT) Data have either not been transferred at all or only partially or incorrectly	
110044 Scan Effect Explanation Remedy 110045 Scan Effect Explanation	Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited Wait for the next print job to be completed or remove a print job from the job list signals transmission fault DATA IN-OUT / (DATA INPUT OR OUTPUT) Data have either not been transferred at all or only partially or incorrectly General error	
110044 Scan Effect Explanation Remedy 110045 Scan Effect Explanation Remedy	Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited Wait for the next print job to be completed or remove a print job from the job list signals transmission fault DATA IN-OUT / (DATA INPUT OR OUTPUT) Data have either not been transferred at all or only partially or incorrectly General error Check other station and cable, reselect interface	OK softkey
110044 Scan Effect Explanation Remedy 110045 Scan Effect Explanation Remedy 110046	Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited Wait for the next print job to be completed or remove a print job from the job list signals transmission fault DATA IN-OUT / (DATA INPUT OR OUTPUT) Data have either not been transferred at all or only partially or incorrectly General error Check other station and cable, reselect interface	
110044 Scan Effect Explanation Remedy 110045 Scan Effect Explanation Remedy 110046 Scan	Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited Wait for the next print job to be completed or remove a print job from the job list signals transmission fault DATA IN-OUT / (DATA INPUT OR OUTPUT) Data have either not been transferred at all or only partially or incorrectly General error Check other station and cable, reselect interface System error None	OK softkey
110044 Scan Effect Explanation Remedy 110045 Scan Effect Explanation Remedy 110046 Scan Effect	 Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited Wait for the next print job to be completed or remove a print job from the job list signals transmission fault DATA IN-OUT / (DATA INPUT OR OUTPUT) Data have either not been transferred at all or only partially or incorrectly General error Check other station and cable, reselect interface System error None The last action has not been executed correctly 	OK softkey
110044 Scan Effect Explanation Remedy 110045 Scan Effect Explanation Remedy 110046 Scan Effect Explanation	 Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited Wait for the next print job to be completed or remove a print job from the job list signals transmission fault DATA IN-OUT / (DATA INPUT OR OUTPUT) Data have either not been transferred at all or only partially or incorrectly General error Check other station and cable, reselect interface System error None The last action has not been executed correctly 	OK softkey
110044 Scan Effect Explanation Remedy 110045 Scan Effect Explanation Remedy 110046 Scan Effect	 Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited Wait for the next print job to be completed or remove a print job from the job list signals transmission fault DATA IN-OUT / (DATA INPUT OR OUTPUT) Data have either not been transferred at all or only partially or incorrectly General error Check other station and cable, reselect interface System error None The last action has not been executed correctly 	OK softkey
110044 Scan Effect Explanation Remedy 110045 Scan Effect Explanation Remedy 110046 Scan Effect Explanation	Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited Wait for the next print job to be completed or remove a print job from the job list signals transmission fault DATA IN-OUT / (DATA INPUT OR OUTPUT) Data have either not been transferred at all or only partially or incorrectly General error Check other station and cable, reselect interface System error None The last action has not been executed correctly None	OK softkey
110044 Scan Effect Explanation Remedy 110045 Scan Effect Explanation Remedy 110046 Scan Effect Explanation	Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited Wait for the next print job to be completed or remove a print job from the job list signals transmission fault DATA IN-OUT / (DATA INPUT OR OUTPUT) Data have either not been transferred at all or only partially or incorrectly General error Check other station and cable, reselect interface System error None The last action has not been executed correctly None	OK softkey
110044 Scan Effect Explanation Remedy 110045 Scan Effect Explanation Remedy 110046 Scan Effect Explanation	Too many print jobs in queue DATA IN-OUT / PRINT / START Data are not sent to printer The number of print jobs allowed is limited Wait for the next print job to be completed or remove a print job from the job list signals transmission fault DATA IN-OUT / (DATA INPUT OR OUTPUT) Data have either not been transferred at all or only partially or incorrectly General error Check other station and cable, reselect interface System error None The last action has not been executed correctly None	OK softkey

110039

Data cannot be copied

110047	Interface is still active	OK softkey
Scan	-	
Effect	A data transmission session to this interface has not yet ended.	
Explanation	-	
Remedy	Terminate data transmission.	
Note	Applies as from SW 4.4	
110048	Interface signals overrun	OK softkey
Scan	DATA IN-OUT / DATA INPUT / START	•
Effect	Data are not read in correctly	
Explanation	Hardware problem	
Remedy	-	
110049	Check interface parameterization	OK softkey
Scan	DATA IN-OUT / DATA INPUT / START	
Effect	Data are not read in correctly	
Explanation	Baud rate, parity, data length, number of stop bits incorrect	
Remedy	Alter interface data and reselect	
110049	V24: Check interface parameters	
Scan	Serial communication via V24	
Effect	Data are not read in correctly.	
Explanation	If the transfer is interrupted in order to request the operator whether an already existing file is to be if no transfer protocol (e.g. RTS/CTS) has been defined, the transfer is interrupted and this message	
Remedy	Set type of protocol and select again.	
Note	Alarm from SW 6.3	
110050	Flenny is already full	OK aaftkav
110050	Floppy is already full	OK softkey
Scan	DATA IN-OUT / DATA OUTPUT / / START (INSERT NEXT DISKETTE) OK	
Effect	Data are not are not archived	
Explanation		
Remedy	Insert new diskette	
110051	was not printed	OK softkey
Scan	DATA IN-OUT / PRINT SERIAL / START	
Effect	Not all of the specified object has been printed or it has not been printed at all	
Explanation	None	
Remedy	Check interface/printer	
		.
110052	signals timeout	OK softkey
Scan	(DATA INPUT OR OUTPUT)	
Effect	Data have not been read in or read out	
Explanation		
Remedy	Check other station	
110053	End of transmission without end identifier	OK softkey
Scan	DATA IN-OUT / / / START	-
Effect	Data are not read-in/written or only partially	
Explanation	E.g. end of data without M02 or end identifier	
Remedy	Check other station and cable	
-		

110054 Scan	No punch tape format or it is faulty DATA IN-OUT / DATA INPUT / START	OK softkey
Effect Explanation	No reading-in	orted at the
схріапаціоп	No punch tape format found in archive, archive does not have a PC format or transmission was st wrong time	aned at the
Remedy	Check external data	
110055	Too much data found	OK softkey
Scan	SERVICES / DATA OUTPUT	
Effect	There is still more data that cannot be accessed	
Explanation	The currently selected workpiece contains more data than can be displayed or processed (max 2-	40 files)
Remedy	Select low no. of files for output	
110056	PC format can be transmitted only with 8 data bits	OK softkey
Scan	DATA IN-OUT / / START	ON SOURCEY
Effect	No data read-in or out	
Explanation		
Remedy	Suitably parameterize interface	
Romody		
110057	File not available	OK softkey
Scan	DATA IN-OUT / / / START	-
Effect	File not read out	
Explanation	File is not available on MMC at the archiving time	
Remedy	Faulty archive list or time problem	
110058	Transfer aborted	OK softkey
Scan	DATA ON OFF / / / START	-
Effect	Not all the data was transferred.	
Explanation	Abort occurred while file was being transferred.	
Remedy	Check cable and peer.	
110059	Cannot be transmitted in punch tape format	OK softkey
Scan	Archiving	
Effect	Data is not archived.	
	Only MPF, SPF, TOA, RPA, ZOA, UMS, SEA, TEA1, TEA2, TEA4 can be transmitted in LS formation and the second	at.
Remedy	Select other data or archive in PC format	
110060	Stored in the elipheard	OK ooffkou
110060 Scon	Stored in the clipboard DATA IN-OUT / DATA INPUT / START	OK softkey
Scan Effect		
	The file was entered in the clipboard	m BC aditar
Explanation Pomody		on PC ealtor)
Remedy	Paste from clipboard into the desired archive location	

110061	No workpiece in job list line	OK softkey
Scan	LOAD NC / START	
Effect	Job list processing was interrupted	
Explanation	The workpiece name in the LOAD instruction does not exist	
Remedy	Change job list	
110062	not found in job list	OK softkey
Scan	LOAD NC / START	enteentey
Effect	Job list processing was interrupted	
	The workpiece name in the LOAD instruction does not exist	
Remedy	Change job list	
Remeay		
110063	No workpiece can be created here	OK softkey
Scan	DATA IN-OUT / DATA INPUT / IN NEW WORKPIECE	ON SOURCEY
Effect	None	
Explanation		
•		
Remedy	Select the directory PC/USER/LOCAL or PC/USER/GLOBAL	
110064	Data type exists already	OK softkey
Scan	Data management / new	
	Data management / insert from archive	
Effect	File is not created / copied	
Explanation	The data type can only be created once in the current location.	
Remedy	First delete the existing file	
-		
110065	Not possible at present	OK softkey
110065 Scan		•
110065 Scan Effect	Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted.	•
110065 Scan	Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted.	•
110065 Scan Effect Explanation Remedy	Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted. – Wait until the save operation has been concluded in the ASCII editor.	•
110065 Scan Effect Explanation	Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted.	•
110065 Scan Effect Explanation Remedy	Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted. – Wait until the save operation has been concluded in the ASCII editor.	•
110065 Scan Effect Explanation Remedy	Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted. – Wait until the save operation has been concluded in the ASCII editor.	•
110065 Scan Effect Explanation Remedy Note	Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted. — Wait until the save operation has been concluded in the ASCII editor. Applies as from SW 4.4	programming. If
110065 Scan Effect Explanation Remedy Note 110066 Scan	Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted. - Wait until the save operation has been concluded in the ASCII editor. Applies as from SW 4.4 Data in Siemens branch cannot be stored Data management / new Data management / insert from archive	programming. If
110065 Scan Effect Explanation Remedy Note 110066 Scan Effect	Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted. - Wait until the save operation has been concluded in the ASCII editor. Applies as from SW 4.4 Data in Siemens branch cannot be stored Data management / new Data management / insert from archive File is not created / copied	programming. If
110065 Scan Effect Explanation Remedy Note 110066 Scan Effect Explanation	Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted. - Wait until the save operation has been concluded in the ASCII editor. Applies as from SW 4.4 Data in Siemens branch cannot be stored Data management / new Data management / insert from archive	programming. If
110065 Scan Effect Explanation Remedy Note 110066 Scan Effect	Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted. - Wait until the save operation has been concluded in the ASCII editor. Applies as from SW 4.4 Data in Siemens branch cannot be stored Data management / new Data management / insert from archive File is not created / copied	programming. If
110065 Scan Effect Explanation Remedy Note 110066 Scan Effect Explanation	 Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted. Wait until the save operation has been concluded in the ASCII editor. Applies as from SW 4.4 Data in Siemens branch cannot be stored Data management / new Data management / insert from archive File is not created / copied File cannot be created in Siemens branch. 	programming. If
110065 Scan Effect Explanation Remedy Note 110066 Scan Effect Explanation	 Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted. Wait until the save operation has been concluded in the ASCII editor. Applies as from SW 4.4 Data in Siemens branch cannot be stored Data management / new Data management / insert from archive File is not created / copied File cannot be created in Siemens branch. 	programming. If
110065 Scan Effect Explanation Remedy Note 110066 Scan Effect Explanation Remedy	 Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted. Wait until the save operation has been concluded in the ASCII editor. Applies as from SW 4.4 Data management / new Data management / insert from archive File is not created / copied File cannot be created in Siemens branch. Move to user branch 	orogramming. If
110065 Scan Effect Explanation Remedy Note 110066 Scan Effect Explanation Remedy 110067 Scan	 Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted. Wait until the save operation has been concluded in the ASCII editor. Applies as from SW 4.4 Data in Siemens branch cannot be stored Data management / new Data management / insert from archive File is not created / copied File cannot be created in Siemens branch. Move to user branch Please enter correct archive name	orogramming. If
110065 Scan Effect Explanation Remedy Note 110066 Scan Effect Explanation Remedy 110067	 Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted. Wait until the save operation has been concluded in the ASCII editor. Applies as from SW 4.4 Data in Siemens branch cannot be stored Data management / new Data management / insert from archive File is not created / copied File cannot be created in Siemens branch. Move to user branch 	orogramming. If
110065 Scan Effect Explanation Remedy Note 110066 Scan Effect Explanation Remedy 110067 Scan	 Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted. Wait until the save operation has been concluded in the ASCII editor. Applies as from SW 4.4 Data in Siemens branch cannot be stored Data management / new Data management / insert from archive File is not created / copied File cannot be created in Siemens branch. Move to user branch Please enter correct archive name Data input Data output Function is not processed 	orogramming. If
110065 Scan Effect Explanation Remedy Note 110066 Scan Effect Explanation Remedy 110067 Scan Effect	 Not possible at present When data is output through V24 and saved to hard disk at the same time, e.g. from a MPF in the file is processed in the PC editor. Data is not transmitted. Wait until the save operation has been concluded in the ASCII editor. Applies as from SW 4.4 Data in Siemens branch cannot be stored Data management / new Data management / insert from archive File is not created / copied File cannot be created in Siemens branch. Move to user branch Please enter correct archive name Data input Data output Function is not processed 	orogramming. If

110068	Interface is disabled	OK softkey
Scan	Data input Data output	
Effect	Function is not processed	
Explanation	•	
Remedy	Wait until interface is free	
110069	Tool list not available	OK softkey
Scan	PROGRAMMING: shopfloor sheet / create TO file / OK	-
Effect	TO file is not created	
Explanation	-	
Remedy	Create tool list	
110070	D number(s) exist more than once	OK softkey
Scan	PROGRAMMING: shopfloor sheet / create TO file / OK	
Effect	Data sets in TO file exist more than once	
Explanation	-	
Remedy	Process tool list	
110071	Computer link: error number	OK softkey
Scan	Computer link / error listing	
Effect	Error during transmission	
	Error number reported during transmission	
Remedy	-	
44.04.00	There is no data/ant program	
110100 Scan	There is no data/part program	OK softkey
Effect	Part program is not loaded	
Explanation		
Remedy	Correct job list	
110101	There is no channel No./mode group/PLC No.	OK softkey
Scan	LOAD NC, SAVE NC	on sourcey
Effect	Data is not saved or loaded	
	TOA, SEA4, RPA, ZOA (TOA, SEA4 > 0) RPA, ZOA \geq 0	
Remedy	All data \leq 4 (or 6 as from SW 4)	
110102	No read/write access for	OK softkey
Scan	Save NC / NC source / start	-
Effect	Data object is not created on MMC or cannot be read	
Explanation	No read only / write rights for the set user class, e.g. because PLC is in stop or keyswitch not prod	cessed in PLC
Remedy	Turn keyswitch to position < 3 or set password	

110103	Memory on NCK is full	OK softkey
Scan	LOAD NC or basic display in AUTOMATIC mode, LOAD WORKPIECE	
Effect	Part program will not be transferred	
Explanation		
Remedy	Delete part programs no longer needed from the NCK	
110104	Error in data/part-program	OK softkey
Scan	LOAD NC or AUTOMATIC basic display, LOAD WORKPIECE	
Effect	Data are not transferred or only partly	
Explanation	NC data to be loaded have errorsRead error on hard disk when executing from hard disk	
Remedy	Check data	
110105	Error during job processing	OK softkey
Scan	LOAD NC, SAVE NC or AUTOMATIC basic display, LOAD WORKPIECE	,
Effect	-	
Explanation	_	
Remedy	_	
·		
110107	NC data/part program cannot be created here	OK softkey
Scan	SAVE NC / NC SOURCE / START	-
	MANAGEMENT / COPY / PASTE DATA IN-OUT / BUFFER / INSERT	
Effect	Data are not saved, copied or inserted in buffer	
Explanation	The data cannot be stored in the current directory	
Remedy	Select a different directory	
110108	There is no workpiece	OK softkey
Scan	(AUTOMATIC MODE)	-
Effect	Workpiece will not be loaded	
Explanation	The workpiece required by the NCK does not exist in the MMC	
Remedy	Check entered names	
110109	Only workpieces/NCK data can be loaded	OK softkey
Scan	LOAD NC / START	
Effect	None	
Explanation	Only workpieces or NCK data can be loaded	
Remedy	Using the data selector, select a workpiece under LOCAL or GLOBAL or an NCK object under a v	vorkpiece or
	from NC data	
110110	No access to SPF0	OK softkey
Scan	SAVE NC / NC SOURCE / START	
Effect	SPF0 is not saved	
•	The name SPF0 is not permissible	
Remedy	Deselect from SPF1	

110111	being processed or cycle inhibit	OK softkey
Scan	SAVE NC / NC SOURCE / START / LOAD NC / START	
Effect	Data will not be saved to MMC or loaded in NCK	
Explanation		
Remedy	Remove disable or discontinue processing	
Note	Applies up to SW 2	
110112	is not a correct NCK name	OK softkey
Scan	LOAD NC / START	
Effect	Data are not transferred to NC	
Explanation		
Remedy	Correct name in MMC	
110113	No communication to NCK	OK softkey
Scan	(Power up) LOAD NC / START SAVE NC / NC SOURCE	
Effect	No data transfer	
Explanation	There is no connection to the NCK. A more detailed error diagnosis is entered in the alarm log with 105011 and possibly 105030 to 105039. Incorrect MDs e.g. IPO cycles too short.	n message
Remedy	Inform system service	
110114	transmitted incompletely	OK softkey
Scan	Abort AUTOMATIC basic display LOAD NC / START / ABORT SAVE NC / NC SOURCE / START / ABORT	
Effect	The file has not been transmitted in its entirety to the MMC or the NCK	
Explanation	It may no longer be possible to send the complete file to the NCK	
Remedy	Save the complete file from the NC again and/or transfer it completely to the NCK	
110115	: Line is too long	OK softkey
Scan	LOAD NC / START	
Effect	Incomplete data transfer	
Explanation	Line may not contain more than 120 characters without blanks or 120 characters with blanks in the section.	e comments
Remedy	Alter using editor	
Note	Applies up to SW 2	
110116	No data transmitted for	OK softkey
Scan	LOAD NC / / START / SAVE NC / / START	-
Effect	_	
Explanation	No transferable data was selected	
Remedy	Select data that can be transmitted / correct job list	
110117	Wrong channel number	OK softkey
Scan	SAVE NC / / START	,
Effect	No data transmission	
Explanation		
Remedy	_ `, _ `,	

110118	Storage of not allowed here	OK softkey
Scan	Save NC / NC source / start	
Effect	No data transmission	
Explanation	Parameter stands for NC name Part programs MFP/SPF can only be stored in a workpiece and GIA data can only be stored under	er NC data.
Remedy	Position on/in a workpiece or in the case of GIA data to NC data using the data selector.	
110119	Data not transferred or incompletely	OK softkey
Scan	Computer link / save start	
	Computer link / load start / OK	
Effect	Not all data transfers, the last file may be incomplete	
Explanation	Cause perhaps in error log	
Remedy	Rectify cause, restart transmission	
110120	Data cannot be read in	OK softkey
Scan	DATA INPUT START	
Effect	File has neither been read in the clipboard nor under the target path.	
Explanation	Cause (e.g. no write authorization, file opened by ASCII editor) can be seen in the error log	
Remedy	Eliminate cause. Restart data input.	
Note	Applies as from SW 4.4	
440404		
110121	Option not available	OK softkey
110121 Scan	Option not available On computer link	OK softkey
		OK softkey
Scan Effect		OK softkey
Scan Effect	On computer link	OK softkey
Scan Effect Explanation	On computer link - Computer link module not slotted in or not active	OK softkey
Scan Effect Explanation	On computer link – Computer link module not slotted in or not active Activate computer link module (CP)	·
Scan Effect Explanation Remedy	On computer link - Computer link module not slotted in or not active	OK softkey OK softkey
Scan Effect Explanation Remedy 110122	On computer link - Computer link module not slotted in or not active Activate computer link module (CP) NCK password not set	·
Scan Effect Explanation Remedy 110122 Scan Effect	On computer link - Computer link module not slotted in or not active Activate computer link module (CP) NCK password not set When loading NCK data	·
Scan Effect Explanation Remedy 110122 Scan Effect	On computer link - Computer link module not slotted in or not active Activate computer link module (CP) NCK password not set When loading NCK data The selected data are not loaded	·
Scan Effect Explanation Remedy 110122 Scan Effect Explanation	On computer link - Computer link module not slotted in or not active Activate computer link module (CP) NCK password not set When loading NCK data The selected data are not loaded Password required for loading GIA data	·
Scan Effect Explanation Remedy 110122 Scan Effect Explanation	On computer link - Computer link module not slotted in or not active Activate computer link module (CP) NCK password not set When loading NCK data The selected data are not loaded Password required for loading GIA data Set password in diagnosis	·
Scan Effect Explanation Remedy 110122 Scan Effect Explanation Remedy	On computer link - Computer link module not slotted in or not active Activate computer link module (CP) NCK password not set When loading NCK data The selected data are not loaded Password required for loading GIA data	OK softkey
Scan Effect Explanation Remedy 110122 Scan Effect Explanation Remedy 110123	On computer link - Computer link module not slotted in or not active Activate computer link module (CP) NCK password not set When loading NCK data The selected data are not loaded Password required for loading GIA data Set password in diagnosis Conversion error in workpiece <%1>	OK softkey
Scan Effect Explanation Remedy 110122 Scan Effect Explanation Remedy 110123 Scan	On computer link Computer link module not slotted in or not active Activate computer link module (CP) NCK password not set When loading NCK data The selected data are not loaded Password required for loading GIA data Set password in diagnosis Conversion error in workpiece <%1> During programming when softkey "Start converter" is pressed or if a workpiece is to be loaded fre Faulty part program MPF (SFFs as well if applicable) is (are) created.	OK softkey
Scan Effect Explanation Remedy 110122 Scan Effect Explanation Remedy 110123 Scan Effect	On computer link Computer link module not slotted in or not active Activate computer link module (CP) NCK password not set When loading NCK data The selected data are not loaded Password required for loading GIA data Set password in diagnosis Conversion error in workpiece <%1> During programming when softkey "Start converter" is pressed or if a workpiece is to be loaded fre Faulty part program MPF (SFFs as well if applicable) is (are) created.	OK softkey
Scan Effect Explanation Remedy 110122 Scan Effect Explanation Remedy 110123 Scan Effect Explanation	On computer link - Computer link module not slotted in or not active Activate computer link module (CP) NCK password not set When loading NCK data The selected data are not loaded Password required for loading GIA data Set password in diagnosis Conversion error in workpiece <%1> During programming when softkey "Start converter" is pressed or if a workpiece is to be loaded for Faulty part program MPF (SFFs as well if applicable) is (are) created. Displays the name of the workpiece (<%1) with which the conversion error occurred.	OK softkey
Scan Effect Explanation Remedy 110122 Scan Effect Explanation Remedy 110123 Scan Effect Explanation Remedy	On computer link Computer link module not slotted in or not active Activate computer link module (CP) NCK password not set When loading NCK data The selected data are not loaded Password required for loading GIA data Set password in diagnosis Conversion error in workpiece <%1> During programming when softkey "Start converter" is pressed or if a workpiece is to be loaded fre Faulty part program MPF (SFFs as well if applicable) is (are) created. Displays the name of the workpiece (<%1) with which the converter.	OK softkey
Scan Effect Explanation Remedy 110122 Scan Effect Explanation Remedy 110123 Scan Effect Explanation Remedy Note	 On computer link Computer link module not slotted in or not active Activate computer link module (CP) NCK password not set When loading NCK data The selected data are not loaded Password required for loading GIA data Set password in diagnosis Conversion error in workpiece <%1> During programming when softkey "Start converter" is pressed or if a workpiece is to be loaded free Faulty part program MPF (SFFs as well if applicable) is (are) created. Displays the name of the workpiece (<%1) with which the convertion error occurred. Eliminate the logged error in the relevant EPF and restart the converter. Alarm from SW 6.3 	OK softkey
Scan Effect Explanation Remedy 110122 Scan Effect Explanation Remedy 110123 Scan Effect Explanation Remedy	On computer link Computer link module not slotted in or not active Activate computer link module (CP) NCK password not set When loading NCK data The selected data are not loaded Password required for loading GIA data Set password in diagnosis Conversion error in workpiece <%1> During programming when softkey "Start converter" is pressed or if a workpiece is to be loaded fre Faulty part program MPF (SFFs as well if applicable) is (are) created. Displays the name of the workpiece (<%1) with which the converter.	OK softkey
Scan Effect Explanation Remedy 110122 Scan Effect Explanation Remedy 110123 Scan Effect Explanation Remedy Note	 On computer link Computer link module not slotted in or not active Activate computer link module (CP) NCK password not set When loading NCK data The selected data are not loaded Password required for loading GIA data Set password in diagnosis Conversion error in workpiece <%1> During programming when softkey "Start converter" is pressed or if a workpiece is to be loaded for Faulty part program MPF (SFFs as well if applicable) is (are) created. Displays the name of the workpiece (<%1) with which the converter. Alarm from SW 6.3 Conversion warning in workpiece <%1> 	OK softkey

120000	Password set	OK softkey
Scan	When operating softkey, "Set password"; the password is correct and has been set.	-
Effect	Files can be stored with ASCII editor. New files can be created or deleted. Backup can be executed.	
Explanation	-	
Remedy	-	
120001	Password reset	OK softkey
Scan	When operating softkey, "Reset password"; the password has been reset.	
Effect	Password protected files cannot be altered.	
Explanation	-	
Remedy	-	
120002	Wrong time/date given	OK softkey
Scan	When pressing the "Set clock" softkey	
Effect	-	
-	Time or date entered incorrectly.	
Remedy	Check input fields 0 23 Input values for hour: 0 59 day: 1 31 month: 1 1980 1999	
120003	No password set	OK softkey
Scan	You have tried to save a file or perform a backup.	
Effect	The files cannot be saved with the ASCII editor. No data can be created or deleted. No backup can be performed.	
Explanation	The password has not been set.	
Remedy	Enter and set the password in the screen form for this.	
120004	No logbook found	OK softkey
Scan	When operating the softkey, "Display logbook".	
Effect	-	
Explanation		
Remedy	Not possible by user	
120005	No data selected	OK softkey
Scan	The identifier "" or "-" has been selected with the data selector and a softkey (e.g. "Edit") has been	n pressed.
Effect	The next display cannot be called up.	
Explanation		
Remedy	Select a valid name with the data selector and press the softkey (e.g. "Edit") again.	
120006	Transfer error	OK softkey
Scan	The error occurred during data transfer (PLC/NC DATA).	,
Effect	The data have either not been transmitted or have been transmitted incorrectly.	
Explanation		
Remedy	Check settings on NC and check input fields and restart transmission.	

120007	No data presetting possible	OK softkey
Scan	Standard default setting could not be set.	
Effect	SIEMENS default setting is used.	
Explanation	-	
Remedy	Check path setting of data selector in SIIEMENS branch; the path must also exist in the user bran	ich.
120008	No data storage possible here	OK softkey
Scan	No NC/PPLC data can be stored in the SIEMENS area.	
Effect	None	
Explanation	Only data transfer from the NCK in the user areas of the MMC is possible.	
Remedy	Select user area.	
120009	Password incorrect	OK softkey
Scan	An incorrect password has been entered.	
Effect	See alarm message 120003 "No password set"	
Explanation	None	
Remedy	Enter correct password, press "Return" key and the "Set" softkey.	

120010 Scan	Error while generating alarm log Log could not be created.	OK softkey
Effect	No log is displayed.	
Explanation	The master control creates the logs when demanded by diagnosis	
Remedy	Check the entry for the length of the logs in the configuration file of the master control and alter if r	ecessary.
120011	Error on creating service log	OK softkey
Scan	Log could not be created.	
Effect	No log is displayed.	
Explanation		
Remedy	Check the entry for the length of the logs in the configuration file of the master control and alter if r	ecessary.
120012	cannot be created	OK softkey
Scan	An error has occurred while creating the specified data object.	
Effect	The object will not be created or only partially.	
Explanation	-	
Remedy	Delete a file, possibly there are too many files in this directory. Check position of keyswitch and ca disk.	pacity of hard
120013	No write access at this point	OK softkey
Scan	You have tried to store a file in the SIEMENS branch, or to store NC data in the user branch when position 1 or 2.	keyswitch not in
Effect	Data cannot be stored.	
Explanation	Check the position of the keyswitch.	
Remedy	Leave editor using RECALL key.	
120014	not available	OK softkey
Scan	The specified file (e.g. PCF17) has not been found in the NCK.	
Effect	None	
Explanation		
Remedy	Select a different program number for PCF file.	
120015	Operating system – error	OK softkey
Scan	An error has been caused in an operating system call during data transfer.	
Effect	System failure	
Explanation	Operating system error [0x4005] i.e.: no communication to NCK	
Remedy	Inform service	
120016	NCK password not set	OK softkey
Scan	An attempt has been made to transfer NC files to the NCK for which a password is required.	 ,
Effect	File is not transferred.	
Explanation		
Remedy	Set the password on the NCK side.	
2		

120017	Transmission aborted	OK softkey
Scan	The user has aborted data transfer with softkey.	ON SOURCEY
Effect	The data have not been transferred or only incompletely.	
Explanation		
-		
Remedy Note	Select another file, restart transmission. Applies as from SW 4.4	
Note		
120018	Error in channel no. / TO area	OK softkey
Scan	The channel no. or TO area entered is not permissible with the NC source specified.	,
Effect	File is not transferred.	
Explanation		
Remedy	Correct number.	
·		
120019	Name not allowed	OK softkey
Scan	An illegal file name has been entered.	
Effect	The file with the name is not created on the MMC side.	
Explanation	Letters AZ, numbers 09 and the underscore character are permissible.	
Remedy	Please enter the correct name, e.g. ABC _123	
120020	There is no data/part program	OK softkey
Scan	The error occurred while a file was being transferred.	
Effect	File has not been transferred or only partially.	
Explanation	-	
Remedy	-	
120021	Error in NCK name	OK softkey
Scan	The error occurred while a file was being transferred.	
Effect	File has not been transferred or only partially.	
Explanation	The name for the NC is incorrect. It consists of an NC identifier (RPA for R parameter) and the chae.g.: R parameter for channel $2 \rightarrow$ name = RPA2	innel number,
Remedy	Correct the name and/or channel number	
120022	No read/write access for	OK softkey
Scan	The error occurred while transferring a file.	-
Effect	File has not been transferred or only partially.	
Explanation	-	
Remedy	Set keyswitch for data.	
120023	Memory on NC is full	OK softkey
Scan	An error occurred during transfer of a file.	2
Effect	File has not been transferred or only partially.	
Explanation	The NC part program is full.	
Remedy	If necessary, delete part programs from the memory.	
-	-	

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120024	Error in data/part program	OK softkey
Scan	The error occurred while transferring the file.	
Effect	File has not been transferred or only partially.	
Explanation	Syntax error in file structure. E.g.: % MPF in part program on MMC	
Remedy	Correct the file	
120025	Error during job processing	OK softkey
Scan	Error occurred while transferring the above file.	
Effect	File has not been transferred or only partially.	
Explanation		
Remedy	Restart transmission	
Remeay		
120026	Only possible in Reset	OK softkey
Scan	The error occurred while transferring the above file.	
Effect	File was not transferred or only incompletely.	
Explanation	The selected data can be transferred in RESET mode only.	
Remedy	Trigger NC Reset and transfer; start again.	
Note	Applies as from SW 4.4	
120027	Error in file structure	OK softkey
Scan	The error occurred while transferring the above file.	-
Effect	File was not transferred or only incompletely.	
Explanation	Syntax error in the file structure. Data after end of list. An item of data follows M02.	
Remedy	Make the corrections in the file.	
Note	Applies as from SW 4.4	
120028	Cycle disable set	OK softkey
Scan	The error occurred while a file was being transferred.	,
Effect	File has not been transferred or only partially.	
	The cycle disable can be set for several cycles.	
Remedy	Remove cycle disable for the cycles concerned.	
120029	No communication to NCK	
Scan	See alarm 110113	
Effect		
Explanation		
Remedy		
120030	Option not available	OK softkey
Scan	When activating the PG function	
Effect	S5 package for programming functions cannot be called up.	
Explanation	None	
Remedy	Activate option	

120031 Scan Effect Explanation Remedy	Enter correct password.	OK softkey
120032 Scan	Error in options list When activating option <nxxx>.</nxxx>	OK softkey
Effect	The option in question cannot be activated or deactivated.	
Explanation		
Remedy	Call service!	
120033	Help text not found	OK softkey
Scan	When operating the I key in the diagnosis alarm basic display.	
Effect	No alarm/message help texts displayed.	
Explanation	None	
Remedy	Copy the file "MELDINFO" from the standard branch (master control/ language) to user under Installation PC data with the softkey Preset. The file can then be edited in the user branch and also stored if the password is set.	
120034	The hard disk is full	OK softkey
Scan	PC data preset Save PLC program	-
Effect	It is not possible to store or create the data.	
Explanation	-	
Remedy	Delete data not required.	
120035	PLC program cannot be created	OK softkey
Scan	Save PLC program	-
Effect	The PLC user program could not be saved on the hard disk in the usual way.	
Explanation	-	
Remedy	-	
130000	Workpiece/file exists already	OK softkey
Scan	NEW / CREATE / mask for entering an object name	
Effect	No new object can be created	
Explanation	Workpiece or file already exists in the data management and cannot be created again.	
Remedy	Enter a new/different name	
130001	No element selected	OK softkey
Scan	PROGRAM or EDIT	
Effect	A file cannot be processed	
	Cursor is positioned on "" or "-", the file that can be processed has not been selected	
Remedy	Select a file with the cursor	

130002 Scan Effect	No file type selected NEW / CREATE New file cannot be created	OK softkey
Explanation Remedy	No element selected in the file type list for creating new files (system error) New programming / data selector version	
130003 Scan Effect	No write access for this file EDIT File cannot be processed	OK softkey
Explanation Remedy		
130004 Scan Effect Explanation Remedy	No read access for this file EDIT File cannot be processed A file has been selected for which read access does not exist Position key switch to position > 3; enter password in diagnosis	OK softkey
130005 Scan	There is no standard job list NEW / JOG LIST / CREATE → Create a new job list	OK softkey
Effect Explanation Remedy	Job list cannot be created The standard job list and/or the "EMPIRICAL VALUES" directory is missing from the data manage new job list is created, this is copied onto the new job list. Inform system service	ment. When a
130006 Scan Effect Explanation Remedy	Job list does not exist JOB LIST Job list cannot be processed No job list exists under a workpiece Create a job list under the workpiece node using the softkey NEW	OK softkey
130007 Scan Effect Explanation	Workpiece/file cannot be created NEW / CREATE / mask for entering an object name No new workpiece or file can be created Error in data management configuration memory too small Incorrect object name (error message from data management create function)	OK softkey
Remedy	Create more memory New programming/data management version	
130008 Scan Effect Explanation Remedy	Please select workpiece PROGRAMMING Workpiece cannot be processed Cursor positioned on "", a workpiece has been selected which cannot be processed Position the cursor on a workpiece name	OK softkey

40000		
130009	Please state name	OK softkey
Scan	NEW / CREATE / mask for entering object name	
Effect	No new workpiece or file is created	
Explanation	No name was entered The name was not terminated with input	
Remedy	Enter a name or terminated with input key	
Romody		
130010	Only NCK-data/part programs can be edited	OK softkey
Scan	EDIT	
Effect	File cannot be processed	
Explanation	A file was not selected (recognizable by the length, length 0 also possible) for processing with the	editor
Remedy	Place the cursor on an element with a length entry	
130011	Select a workpiece for job list	OK softkey
Scan	JOB LIST	
Effect	Job list cannot be processed	
Explanation	The job list of the selected workpiece cannot be processed	
Remedy	Place the cursor on a workpiece	
130012	There is no programming system	OK softkey
Scan	PROGRAMMING	
Effect	Graphic programming not possible	
Explanation	Graphic programming system does not exist.	
Remedy	Install GRAPHIC PROGRAMMING SYSTEM option.	
130013	Name not allowed	OK softkey
Scan	NEW / CREATE / mask for entering file name	
Effect	No new object created	
Explanation	Syntax of entered name is incorrect, only alphanumeric characters and "_" permitted	
Remedy	Enter correct name	
130014	No workpiece/file may be created	OK softkey
Scan	Softkey NEW at top level "LOCAL" "GLOBAL"	-
Effect	No new object created	
Explanation	The data management tree does not allow the creation of a directory on this level	
, Remedy	-	
-		
130015	Access denied	OK softkey
Scan	PROGRAMMING	,
Effect	Workpiece cannot be processed	
	Incorrect keyswitch setting	
1		

Explanation Incorrect keyswitch setting No authorization for processing workpiece

130016	No more memory space available	OK softkey
Scan	NEW / CREATE	
Effect	Directory/file cannot be created	
•	No memory left to create the directory/file	
Remedy	Workpieces/files which are no longer required can be deleted	
130017	Disk full! No graphical programming	OK softkey
Scan	PROGRAMMING	
Effect	Workpiece cannot be machined	
Explanation	No memory available to load programming system data	
Remedy	Workpieces/files which are no longer required can be deleted	
130018	File not available	OK softkey
Scan	EMPIRICAL VALUES	
Effect	Empirical values file cannot be processed	
Explanation	There is no empirical value file in the data management tree that can be copied into the us processing.	ser branch for
Remedy	Notify service	
130019	Data transfer in progress! Terminate?	Abort/OK softkey
Scan	-	-
Effect	-	
Explanation	If an MMC CPU with 8 MB is available, the graphic programming system (WOP) must not data transfer is in progress.	be started while the V24
Remedy	By pressing the OK softkey, the V24 data transfer is aborted.By pressing the ABORT softkey, WOP is not started.	
Note	Applies as from SW 4.4	
130020	File has been altered! Lose change?	Abort/OK softkey
Scan	-	-
Effect	-	
Explanation	File was exited after an alteration with RECALL and without softkey SAVE.	
Domody	Drace ADODT softway if further changes are to be made in the adit made	

• Press ABORT softkey if further changes are to be made in the edit mode.

Press OK softkey if the changes are to be lost.

Remedy

Note

•

Applies as from SW 4.4

1 Alarms

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Note	You will find below a list of all possible alarms and messages that can occur in the SIMULATION area.
	The messages and alarms are self–explanatory or their explanation is obvious from the last operator action. The majority of alarms and messages point to a programming error in the blocks of the simulation program. An expla- nation of the programming functions is beyond the scope of this documentation. Please refer to the Programming Guide.
	Some alarms and messages include an identifier % in their formatting. These are replaced in the display by the cause, e.g.:
	141497 "Workpiece %1 is being loaded" Display:
	141497 "Workpiece PART 3 is being loaded"
141102	"Error on workpiece selection !"
141104	"No program selected !"
141105	"Select. allowed only after end of prog./RESET"
141106	"Workpiece empty, please make new selection"
141107	"Program selection error! Reselect tool!"
141122	"Scale modification not allowed !"
141123	"Illegal scale value !"
141124	"Coordinate rotation not allowed !"
141130	"Turning allowed in perspective view only !"
141132	"Function not allowed with only one view"
141134	"Cut allowed with 3D and side view !"
141135	"Please select numerical input."
141136	"Representation no longer possible"
141137	"A cut is not possible in TURNING mode."
141140	"Please exit the vertical menu first"
141141	"No end–of–program (M02/M30/M17) programmed"
141142	"Program stop due to M0/M1."
141490	"Memory limitation, please terminate simulation!"
141495	"Parameter save in progress"
141496	"Initialize simulation"
141497	"Workpiece %1 is being loaded."
141498	"Internal error ! Result might be faulty !"
141499	"Internal error ! Please end simulation!"
142001	"No blank available !"
142002	"No tools set up !"
142003	"No workholder available !"
142004	"Error on loading machine data !"
142005	"Error on loading R parameters"
142006	"Error on loading the ZOA data !"

142007	"Error on loading the TOA data !"
142008	"Error on loading the SEA data !"
142009	"No operational data, default setting !"
142010	"No machined parts available !"
142011	"Too many points in contour %1 !"
142015	"Error on storing operational data !"
142020	"Error on loading the TOA data !"
142021	"Error on loading the TOA data !"
142022	"No D number in tool list !"
142025	"Programm %1 does not exist !"
142026	"Syntax error in job list !"
142027	"Job list could not be evaluated"
142030	"Axis in transmit data set not defined"
142031	"Axis in transmit data expected to be fictit."
142032	"Axis in transmit data set expected to be real"
142033	"Axis in transmit data set exists several times"
142034	"Non-assigned transmit MD incorrectly initialized"
142035	"No data set exists for TRANSMIT !"
143000	"Access via P address does not exist !"
143001	"Pointer in P cell invalid !"
143002	"R parameter address invalid on READING !"
143003	"R parameter address invalid on WRITING !"
143004	"TO area not available !"
143005	"There is no D compensation memory !"
143006	"No access to settable zero offset"
143007	"No access to progr. zero offset"
143008	"Specified angle No. not equal to 1 !"
143009	"No access to settable coordinate rotation"
143010	"No access to progr. coordinate rotation"
144051	"Circle end point error in circle programming"
144052	"Full circle with circle rad.prog. not allowed"
144053	"Radius too small for programmed circle"
144100	"Wrong input for contour definition !"
144101	"No intersection possible !"
144102	"Angle value not allowed !"
144103	"Radius value not allowed !"

1 Alarms 1.5.1 Alarm description

144104	"Wrong selection G02/03 !"
144105	"Block sequence wrong !"
144106	"Values for contour definition faulty !"
144108	"Wrong axis programmmed for cont. definition!"
144109	"Target position cannot be reached !"
144150	"Scale modification not allowed !"
144151	"Illegal scale value !"
144152	"Coordinate rotation not allowed !"
144200	"Smooth appr. + retraction cannot be selected!"
144201	"Not poss. to deselect smooth appr. + retr. !"
144202	"Wrong smooth approach and retraction plane !"
144203	"No TRC chosen on selecting smooth app.+retr.!"
144204	"No added axis with smooth appr. + retr. !"
144205	"Select/deselect TRC not possible !"
144206	"Contour violation TRC !"
144207	"Too many blocks programmed without path !"
144208	"No equidistant intersection available!"
144209	"Transform. not allowed with active TRC !"
144210	"No axis added with TRC !"
144211	"No added axis with TLC !"
144300	"Transmit grouping %1 in channel %2 illegal !"
144301	"Current transformation not deselected !"
144302	"Transformation type %1 not defined"
144304	"Axis %1 cannot be traversed with TRANSMIT !"
144305	"Feed is zero !"
144309	"Circle end point error in interpolation !"
144311	"G4 S progr., spindle not rotating !"
144312	"G96 S progr., leading spindle missing!"
144313	"Velocity limitation"
144316	"Rotary axis feed G98: G1 or G36 required !"
144318	"Path thru transformation centre not allowed"
144319	"Veloc. of transmit rotary axis too high"
144320	"Veloc. of transmit linear axis too high"
144350	"Axis %1 not possible. Only 3 axes at present"
144351	"Axis %2 not permitted in channel %1!"

144352 "Axis %2 disabled in channel %3!"

144353	"Spindle %2 not in rotary axis mode !"
144354	"Setting setpoint for axis %1 not allowed!"
144355	"Setting setpoint for axis %1 not allowed!"
144356	"Limit on software limit switch"
144357	"Spindle in other channel active !"
144358	"Rotary axis mode not possible for spindle !"
144359	"Spindle %1 currently being moved as an axis !"
144450	"@71x: Unable to read R parameters"
144451	"@71x: Unable to write R parameters"
144452	"@71x: Unable to copy R parameters"
144453	"@711: No direction straight line defined"
144454	"@711: No contour element stored in R para."
144455	"@711: No circle element stored in R para."
144456	"@711: Circle element exceeds 2 quadrants"
144457	"@711: No point of intersection available"
144458	"@710: %1 could not be opened"
144459	"@710: Wrong control parameter in R%1"
144460	"@710: NC block from contour %1 cannot be read"
144461	"@710: Invalid NC block in contour %1"
144462	"@710: Invalid ident. for direct. of rotation"
144463	"@710: NC block in contour %1 has error"
144464	"Circle not programmed in selected plane"
144465	"DIN: %1"
144501	"No more memory space available !"
144502	"No more memory space available !"
144504	"Error in '%1' geometry !"
146000	"DIN: %1"
146001	"Overlong line cut off"
146002	"Block not concluded with Line Feed"
146003	"Jump destination %1 not found"
146004	"Program SPF%1 not available"
146005	"Too many SPFs: SPF%1 not opened"
146006	"M17 not allowed in MPF"
146007	"M02/M30 not allowed in SPF"
146010	"Comments/program coordination nested"
146011	"End of line in comments/program coordination"

146012	"Invalid character in block"
146013	"Too many characters in the block"
146014	"One point alone is not a permissible number"
146015	"Block too long: closing brackets inserted"
146020	"Only R parameters allowed here"
146021	"Only constant allowed here"
146022	"Only constant or R parameters allowed here"
146023	"Only the first sign is considered"
146024	"Illegal address extension"
146025	"Illegal value"
146026	"Illegal R parameter number"
146027	"Illegal R parameter number"
146028	"Illegal constant in @ function"
146029	"Sign in address extension not allowed"
146030	"Illegal constant"
146040	"'=' is missing after target parameter"
146041	"'R' must be followed by number or '=""
146042	"Only 'R', 'P', or constant allowed here"
146043	"Division by ZERO"
146044	"Error in calculation"
146050	"Illegal beginning of word"
146051	"Too much information in the block"
146052	"Value must be an integer"
146053	"R parameter number not an integer"
146054	"Illegal word value"
146055	"Faulty word"
146060	"%1 word already programmed in block"
146061	"Too many M functions in the block"
146062	"Rap.aux.fct. not allowed because %1 value neg"
146063	"Address extension not allowed for %1 word"
146064	"Selected D number not available"
146065	"S word must follow M19"
146066	"Spindle number not allowed"
146067	"M function of Group %1 already programmed"
146068	"Meaning of P word not defined"
146069	"The block no. is not at the beginning of line"

146070

146071 "Address with extension not allowed" 146072 "Illegal address" "Address extension not allowed for dwell" 146073 146074 "Value overflow (negative)" 146075 "Value overflow (positive)" 146076 "Main block allowed in program level 0 only" 146077 "P word must be directly behind G92" 146078 "P word must immediately follow L-word"

"Illegal axis address extension"

- 146079 "Word is not allowed after G%1"
- 146080 "G%1: I, J, K, IKA or IKP cannot be allocated"
- 146081 "G%1: Same spindle programmed more than once"
- 146082 "G%1: I before J is missing"
- 146083 "Multiple transform'n select/deselect in block"
- 146084 "Selection can only be made in deselected pos."
- 146085 "Valid transformation data set missing"
- 146100 "Further alarms in the block are suppressed"
- 146110 "Repeated selection of a G group not allowed"
- 146111 "Illegal G function"
- 146112 "Conflict: @706 ←> G53"
- 146113 "G%1: Block cannot be simulated"
- 146114 "G%1 interpreted as LF"
- 146115 "Smooth retraction requires G40"
- 146116 "G40 has already been set by WAB"
- 146117 "Function no longer effective"
- 146118 "Transmit cannot be simulated"
- 146120 "G%1 is not simulated"
- 146130 "@ function is not simulated"
- 146131 "@ function cannot be simulated exactly"
- 146132 "@ function for PLC is not simulated"
- 146133 "@ number not allowed"
- 146134 "Illegal @ function"
- 146135 "Value must be an integer here"
- 146136 "Value overflow"
- 146137 "Value must be a bit pattern here"
- 146138 "Not enough parameters for @ function"

146139	"End of line in @ parameter list"
146140	"Type of parameter illegal"
146141	"Illegal sign"
146142	"Only value 0 or 1 allowed here"
146143	"Only values 0 to 7 allowed here"
146144	"No. of machine/setting data not allowed"
146145	"Type of machine data/setting data illegal"
146146	"1st parameter: quantity must be positive"
146147	"Stack limit exceeded/not reached"
146148	"Source/target is in stack area"
146149	"Illegal MIB address"
146150	"MIB cell not initialized"
146151	"G group function non-modal"
146152	"R number for result of @713 not allowed"
146153	"Axis not defined"
146154	"No IPO parameter exists for axis"
146155	"@ expression contains errors"
146156	"Identifier in @3FF cannot be simulated"
146157	"Type in 3FF data group cannot be simulated"
146158	"No D number active – cycle alarm 4100"
146159	"Tool radius = 0 – cycle alarm 4101"
146160	"Cutter radius too large – cyc. alarm 4102"
146161	"Tool too wide – cycle alarm 4103"
146162	"No M03/M04 programmed – cycle alarm 4120"
146163	"Spindle not in tolerance – cycle alarm 4121"
146164	"Diam. of fin.part too small – cyc. alarm 4140"
146165	"Option not available – cycle alarm 4180"
146166	"Check definition R (Nxxx) – cycle alarm 4200"
146167	"Thread length too short – cycle alarm 4153"
146168	"Cycle alarm number not defined "
146169	"Only angle No.1 allowed"
146170	"Only axis 1 to 9 possible"
146171	"@ position in block invalid"
146200	"The axis is disabled according to axis MD"
146201	"G16 block allows only signs in axis word"
146202	"Axis already programmed in block"

146203

146204 "Too many axes programmed in the block" 146205 "Too many radii and/or chamfers in the block" 146206 "Too many angles programmed in the block" 146207 "Too many interpolation parameters in block" 146208 "Only K parameters allowed here" 146209 "R parameter not allowed as spline coefficient" 146210 "Spline coefficient must be an integer" 146211 "X word not allowed" 146212 "Dwell already programmed in block" 146213 "Stop angle has been corrected 'modulo 360'" 146214 "Negative S value for speed not allowed" 146215 "Too many components for contour def. in block" 146216 "G92 S/ G96 S allowed for leading spindle only" 146217 "Illegal axis setpoint" 146218 "Illegal rotary axis setpoint" 146219 "Illegal modulo rotary axis setpoint" 146220 "G%1 not allowed in this block" 146221 "Axis with act. transformation illegal" 146231 "MD%1: MD could not be read"* 146232 "MD%1: name of radius/chamfer not allowed"* 146233 "MD%1: name of angle not allowed"* 146234 "MD%1: name conflict: radius/chamfer <-> angle"* 146235 "MD%1: addr.ext. not allowed for radius/chamfr"* 146236 "MD%1: address extension not allowed for angle"* 146237 "MD%1: input resolution not allowed"* 146238 "MD%1: axis name not allowed"* 146239 "MD%1: axis not allowed in mode group"* 146240 "MD%1: axis name assigned several times"* 146241 "MD%1: IPO parameters not allowed"* 146242 "MD%1: axis name not allowed for plane"* 146243 "MD%1: G number not allowed as initial setting"* 146253 "Rapid traverse block was generated"

"After axis etc: do not change system of units"

146254 "G15 is not simulated"

^{*} Simulation must be cancelled and a corrected set of machine data activated with the load list by reselecting.

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146255	"Spline interpolation G06 cannot be simulated"
146256	"Spline interpolation G06 cannot be simulated"
146261	"In-process measurement @720 is not simulated"
146262	"Program coord. [] not being simulated"
146263	"Coupled motion is not simulated"
146264	"G200 will not be simulated"
146265	"G103 is not simulated"
146266	"G104 is not simulated"
146267	"G105 is not simulated"
146268	"G119 is not simulated"
146269	"G24 is not simulated "
146271	"Ramp–up time G92 T is not simulated"
146272	"Starting angle offset G92 A is not simulated"
146273	"Working area limitation G25 is not simulated"
146274	"Working area limitation G26 is not simulated"
146275	"M36/M37 is not simulated"
146276	"Exact stop G60 is not simulated"
146277	"Velocity reduction G62 is not simulated"
146278	"Velocity reduction G64 is not simulated"
146290	"Context: measurement function @720"
146291	"Context: G function of 7th group"
146292	"Context: scale modification G51"
146293	"Context: synchronized spindle stop M19S"
146294	"Context: program jump"
146295	"Context: block to be skipped"
146296	"Context: dwell"
146297	"Context: refpt preprocess f. stock rem. cycle"
146298	"Context: intersection calc.f.stock rem. cycle"
146299	"Context: plane selection with free axis sel."
146300	"Context: cylindrical interpolation G92P"
146301	"Context: transfomation"
146302	"Context: approach reference point"
146303	"Context: pole specification"
146304	"Context: spline interpolation is selected"
146305	"Context: block preprocessing stop by @714"
4 4 9 9 9 7	

146307 "Context: G200 block"

146310	"Context: G15 block expected"
146311	"Context: G220–G222 block expected"
146312	"Context: G420–G426 block expected"
146320	"Conflict: measuring function @720 not allowed"
146321	"Conflict: G function of 7th group not allowed"
146322	"Conflict: scale modification not allowed"
146323	"Conflict: synchr. spindle stop not allowed"
146324	"Conflict: jump not allowed but still performed"
146326	"Conflict: dwell not allowed"
146327	"Conflict: ref.pt preprocessing not allowed"
146328	"Conflict: intersection calc. not allowed"
146329	"Conflict: plane selection not allowed"
146330	"Conflict: cylindr. interpolation not allowed"
146331	"Conflict: transformation not allowed"
146332	"Conflict: ref. point approach not allowed"
146333	"Conflict: pole selection not allowed"
146335	"Conflict: @714 not allowed"
146337	"Conflict: G200 block not allowed"
146340	"Conflict: G15 block invalid"
146341	"Conflict: G200–G222 block invalid"
146342	"Conflict: G420–G426 block invalid"
146400	"G%1: more than 1 radius in block"
146401	"G%1: radius is missing -> value 0 added"
146402	"G%1 ignored because of soft approach/retract."
146403	"G%1: plane axis is missing in block"
146404	"G48 prog. w/o previous approach / distance 0"
146405	"G%1: radius 0 programmed"
146406	"G%1: amount formed for negative radius"
146407	"G%1: allowed with G0/G1/G2/G3 only"
146410	"G%1: interpolation parameter is missing"
146411	"G%1:several thread leads prog>1st is valid"
146412	"G%1: thread lead param. does not match axes"
146415	"G%1: 1 axis or 2 axes are expected"
146416	"G%1: thread lead must be positive"
146417	"G%1: no axis programmed"

146418 "G%1: thread lead change F is missing"

146420	"G%1: only one rotary axis allowed"
146421	"G%1: 2 or 3 axes are expected"
146422	"G%1: Thread pitch parameter = 0"
146423	"G36: C is plane axis but G%1 is selected"
146430	"G%1: no pole defined yet"
146431	"G%1: negative radius illegal"
146432	"G%1: programmed axis is not a pole axis"
146433	"G%1: more than 2 axes programmed"
146434	"G%1: program either axis or radius"
146435	"G%1: program either axis or angle"
146436	"G%1: pole definition with G90 is missing"
146437	"G%1: pole definition only with exactly 2 axes"
146438	"G%1: G91 only allowed for existing pole axes"
146439	"G%1: no radius in block"
146440	"G%1: negative radius illegal"
146441	"G%1: no angle in block"
146442	"G%1: G91 for angle only allowed after G90"
146443	"G%1: more than one radius programmed"
146444	"G%1: more than one angle programmed"
146450	"G%1: no axes programmed"
146451	"Rapid trav. for contour definit'n not allowed"
146452	"G%1: sequence/number of elements illegal"
146453	"Only positive radius allowed here"
146454	"Progr. elements do not form a trav. block"
146455	"Contour definition: no further axis possible"
146456	"Contour definition: more than 2 axes progr."
146457	"G%1: G935 must be programmed with G1"
146458	"Contour definition: faulty circle parameters"
146459	"Contour def.: circle param. progr. sev. times"
146460	"No further circular axis possible"
146461	"Faulty circle parameters"
146470	"G16: at least 2 axes expected"
146471	"G%1: plane axes are identical"
146472	"G16: max. 4 axes can be simulated"
146480	"Axis prog> C axis on/off ignored"
4 4 6 4 9 4	"M40 Supethor M functions ignored"

146481 "M19 S: other M functions ignored"

146482	"Only 1 spindle can be programmed in a block"
146483	"M19 not allowed here"
146484	"M groups not allowed in this block"
146490	"G06: inch/metric conversion not allowed"
146491	"G06: axes to IPO parameters are missing"
146492	"G06: here only IPO parameter I allowed"
146493	"G06: positive path length I expected"
146494	"G06: exactly 3 coefficients K expected"
146500	"L%1 ignored, because M2, M30 or M17 in block"
146501	"G%1 desel., because M2, M30 or M17 in block"
146502	"G%1 deselected, because L call in block"
146510	"@720 is only possible in traversing block"
146511	"@714 must be on its own in the block"
146512	"@%1 is not permitted in contour program"
146513	"Traversing block must be in its own block"
146520	"G96: cutting velocity S is missing"
146521	"Feed is missing"
146522	"G98 allowed with G0/G1/G36 only"
146523	"G96 not allowed together with M19"
146524	"G36: G98 is generated and G%1 is deselected"
146530	"Option for G%1 is missing"
146531	"Cylindrical interpolation option is missing"
146532	"Circle radius programming option is missing"
146533	"Contour definition SPRINT option missing"
146534	"Option 5D helical is missing"
146535	"Program coordination option is missing"
146536	"Reference point preprocessing option missing"
146537	"Option extended thread package is missing"
146550	"G%1 not allowed here -> ignored"
146551	"G04 block: dwell F, X or S is missing"
146552	"S/T/angle is missing –> G92 ignored"
146553	"G92 T: T value > 5 not allowed"
146554	"G92 P: exactly one axis expected"
146555	"G92 P: axis is not a rotary axis"
146556	"G%1: axes for working area limit. are missing"
146557	"G%1: axis or angle is missing"

146557 "G%1: axis or angle is missing"

146558	"G%1: exactly one axis expected"
146559	"G63 allowed with G01 only, not with G%1"
146560	"P factor is missing with G51"
146561	"G175 inserted internally because of G%1"
146562	"G175 inserted internally because of @706"
146563	"G175 inserted internally because of D word"
146564	"G%1: only absolute ZO possible with G51"
146565	"@711: Both plane axes are expected"
146566	"@711: G0, G1, G10 or G11 must be active"
146567	"G15: 3 linear and 2 rotary axes expected"
146568	"G%1 is not simulated"
146569	"G%1: No drives programmed"
146570	"G%1: Master drive missing"
146571	"G%1: Max. 1 spindle allowed on master drives"
146572	"G%:1 Slave drive per MD invalid"
146573	"G%1: I,J,K,IKA,IKP for slave drive illegal"
146574	"G%1: Axes, IKA or IKP cannot be simulated"
146575	"G%1: No position for drives allowed"
146576	"G%1: No position for slave drives allowed"
146577	"G%1: Position for slave drive is missing"
146578	"G%1: Position for a master drive is missing"
146579	"G%1: I,J or IKP for master drives illegal"
146580	"G%1: Link. struct. K does not permit IKA word"
146581	"G%1: Linking structure K requires IKA word"
146582	"G%1: IKA word expected due to IKP word"
146583	"G%1: K word not allowed"
146600	"DIN: %1"
146700	"G%1 block: too much information in block"
146701	"Block information before jump ignored"
146702	"Block with G92 P: too much info in block"
146703	"Too much information in spline coeff. block"
146704	"Block with G92 T: too much info in block"
146705	"Too much information in block with G92 angle"
146706	"Block with G92 S: too much info in block"
146707	"Block with M19 S: too much info in block"
4 40700	"Disale with @740, to a much info in blook"

146708 "Block with @710: too much info. in block"

146709	"Block with @711: too much info. in block"
4 4 9 7 9 9	

- 146730 "Axis not allowed here -> ignored"
- 146731 "IPO parameters not allowed here -> ignored"
- 146732 "Radii not allowed here -> ignored"
- 146733 "Angle not allowed here -> ignored"
- 146734 "F word not allowed here -> ignored"
- 146735 "M words not allowed here -> ignored"
- 146736 "S word not allowed here -> ignored"
- 146737 "T word not allowed here -> ignored"
- 146738 "H word not allowed here -> ignored"
- 146739 "D word is not allowed here -> ignored"
- 146740 "Comments not allowed here"
- 146741 ":-word not allowed here -> ignored"
- 146742 "Only @714 allowed here. Other @ ignored"
- 146743 "@706/@715/@720 not allowed here-> ignored"
- 146744 "Progr. coord. [...] illegal here -> ignored"
- 146745 "L word not allowed here -> ignored"
- 146746 "N word not allowed here -> ignored"
- 146747 "P word not allowed here -> ignored"

160001 Axis already assigned

OII START
The selected function is not started
No further startup functions can be started with the defined axis number
Terminate the startup function already active for this axis

160002Axis not configured or configured wronglyOK softkeyScanStartup applicationEffectStartup function is not executedExplanationSelected axis is not availableRemedySelect available axis

160003Drive module is not configured or incorrectlyOK softkeyScanStartup applicationEffectStartup function is not executedExplanationSelected drive number is not availableRemedySelect available drive module

160004	Data code , error , 0x	OK softkey
Scan	Startup application	
Effect	Undefined	
Explanation		
Remedy	Terminate application and repeat procedure, notify service if necessary.	
160005	Function code , error , 0x	OK softkey
Scan	Startup application	
Effect	Undefined	
Explanation	Internal system error	
Remedy	Terminate application and repeat procedure, notify service if necessary.	
-		
160006	File transfor ID orror 0x	OK softkov
Scan	File transfer ID , error , 0x	OK softkey
Effect	Startup application	
Explanation	Undefined; measuring data lost	
Explanation	 Internal system error File transfer error when reading out a measurement buffer with specified error parameters. 	
Remedy	Check MMC system configuration and hardware	
,	, ,	
400007		
160007	Measurement/drive type combination not allowed	OK softkey
Scan	When starting measuring functions	
Effect	The selected function is not started	
Explanation		
Remedy	None	
160008	Mode/drive type combination not allowed	OK softkey
Scan	When starting measuring functions	
Effect	The selected function is not started	
Explanation	The selected function is not possible with the addressed drive type.	
Remedy	None	
160009	Mode/signal type combination not allowed	OK softkey
Scan	When starting measuring functions	
Effect	The selected function is not started	
Explanation		
Remedy	Correct signal selection	
. tornouy		
160010	Too many function generators operating	OK softkey
Scan	When function generator is started	
Effect	Function generator is not started	
Explanation		
Remedy	Stop active function generator and repeat procedure	

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160011	File name invalid	OK softkey
Scan	When selecting file functions	
Effect	Entries rejected	
•	File names can only contain alphanumeric characters	
Remedy	Correct input and repeat procedure	
160012	Invalid input resolution ()	OK softkey
Scan	Parameterization/startingstartup functions	
Effect	The startup function cannot be started	
	See machine data description	
Remedy	Check/correct machine data input resolution	
160013	Involid position control resolution (OK softkov
Scan	Invalid position control resolution ()	OK softkey
Effect	Parameterization/startingstartup functions	
	The startup function cannot be started	
	See machine data description	
Remedy	Check/correct machine data position control resolution	
160014	Invalid maximum current of power section	OK softkey
Scan	Parameterization/startingstartup functions	····,
Effect	The startup function cannot be started	
Explanation	See machine data description	
, Remedy	Check/correct machine data maximum current	
,		
160015	Invalid maximum axis velocity/spindle speed	OK softkey
160015 Scan	Invalid maximum axis velocity/spindle speed Parameterization/startingstartup functions	OK softkey
		OK softkey
Scan Effect Explanation	Parameterization/startingstartup functions	OK softkey
Scan Effect	Parameterization/startingstartup functions The startup function cannot be started	OK softkey
Scan Effect Explanation Remedy	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities	
Scan Effect Explanation Remedy 160016	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities Invalid scan time of current controller	OK softkey OK softkey
Scan Effect Explanation Remedy 160016 Scan	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities Invalid scan time of current controller Parameterization/startingstartup functions	
Scan Effect Explanation Remedy 160016 Scan Effect	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities Invalid scan time of current controller Parameterization/startingstartup functions The startup function cannot be started	
Scan Effect Explanation Remedy 160016 Scan Effect Explanation	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities Invalid scan time of current controller Parameterization/startingstartup functions The startup function cannot be started See machine data description	
Scan Effect Explanation Remedy 160016 Scan Effect	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities Invalid scan time of current controller Parameterization/startingstartup functions The startup function cannot be started	
Scan Effect Explanation Remedy 160016 Scan Effect Explanation Remedy	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities Invalid scan time of current controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time	OK softkey
Scan Effect Explanation Remedy 160016 Scan Effect Explanation Remedy 160017	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities Invalid scan time of current controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time Invalid scan time of position controller	
Scan Effect Explanation Remedy 160016 Scan Effect Explanation Remedy 160017 Scan	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities Invalid scan time of current controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time Invalid scan time of position controller Parameterization/startingstartup functions	OK softkey
Scan Effect Explanation Remedy 160016 Scan Effect Explanation Remedy 160017 Scan Effect	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities Invalid scan time of current controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time Invalid scan time of position controller Parameterization/startingstartup functions The startup function cannot be started See machine data for current controller scan time	OK softkey
Scan Effect Explanation Remedy 160016 Scan Effect Explanation Remedy 160017 Scan	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities Invalid scan time of current controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time Invalid scan time of position controller Parameterization/startingstartup functions The startup function cannot be started See machine data for current controller scan time	OK softkey
Scan Effect Explanation Remedy 160016 Scan Effect Explanation Remedy 160017 Scan Effect Explanation	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities Invalid scan time of current controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time Invalid scan time of position controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time Invalid scan time of position controller Parameterization/startingstartup functions The startup function cannot be started See machine data description	OK softkey
Scan Effect Explanation Remedy 160016 Scan Effect Explanation Remedy 160017 Scan Effect Explanation Remedy 160018	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities Invalid scan time of current controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time Invalid scan time of position controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time Invalid scan time of position controller Parameterization/startingstartup functions The startup function cannot be started See machine data description	OK softkey
Scan Effect Explanation Remedy 160016 Scan Effect Explanation Remedy 160017 Scan Effect Explanation Remedy	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities Invalid scan time of current controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time Invalid scan time of position controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time Invalid scan time of position controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for position controllers	OK softkey OK softkey
Scan Effect Explanation Remedy 160016 Scan Effect Explanation Remedy 160017 Scan Effect Explanation Remedy 160018	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities Invalid scan time of current controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time Invalid scan time of position controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time Invalid scan time of position controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for position controller scan time Invalid scan time of speed controller Invalid scan time of speed controller	OK softkey OK softkey
Scan Effect Explanation Remedy 160016 Scan Effect Explanation Remedy 160017 Scan Effect Explanation Remedy	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities Invalid scan time of current controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time Invalid scan time of position controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time Invalid scan time of position controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for position controller scan time Invalid scan time of speed controller Parameterization/startingstartup functions	OK softkey OK softkey
Scan Effect Explanation Remedy 160016 Scan Effect Explanation Remedy 160017 Scan Effect Explanation Remedy	Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for maximum velocities Invalid scan time of current controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time Invalid scan time of position controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for current controller scan time Invalid scan time of position controller Parameterization/startingstartup functions The startup function cannot be started See machine data description Check/correct machine data for position controller scan time Invalid scan time of speed controller Parameterization/startingstartup functions The startup function cannot be started See machine data for position controller scan time Invalid scan time of speed controller Parameterization/startingstartup functions The startup function cannot be started See machine data for position controller scan time	OK softkey OK softkey

160019	Invalid tacho adaptation	OK softkey
Scan	Parameterization/startingstartup functions	
Effect	The startup function cannot be started	
Explanation	See machine data description	
Remedy	Check/correct machine data for tacho adaptation	
160020	A measuring function is already active	OK softkey
Scan	Starting startup functions	
Effect	The startup function cannot be started	
Explanation	Only one measuring function at a time can be active	
Remedy	Stop previous measuring function and repeat procedure	
160022	Illegal bus selection	OK softkey
Scan	When starting DAC output	
Effect	DAC output cannot be started	
Explanation	Startup application internal error; it is not possible to access 611D hardware	
Remedy	End application and repeat procedure	
160023	Illegal component	OK softkey
Scan	When starting DAC output	
Effect	DAC output cannot be started	
Explanation	Signal selection does not correspond to drive components	
Remedy	Correct parameterization	
160024	There is no signal	OK softkey
160024 Scan	There is no signal Starting DAC output	OK softkey
	-	OK softkey
Scan Effect	Starting DAC output	OK softkey
Scan Effect	Starting DAC output DAC output cannot be started	OK softkey
Scan Effect Explanation	Starting DAC output DAC output cannot be started The selected signal is not available	OK softkey
Scan Effect Explanation	Starting DAC output DAC output cannot be started The selected signal is not available	OK softkey OK softkey
Scan Effect Explanation Remedy	Starting DAC output DAC output cannot be started The selected signal is not available Correct signal selection	·
Scan Effect Explanation Remedy 160025	Starting DAC output DAC output cannot be started The selected signal is not available Correct signal selection Protected data area selected (segment)	·
Scan Effect Explanation Remedy 160025 Scan	Starting DAC output DAC output cannot be started The selected signal is not available Correct signal selection Protected data area selected (segment) Starting DAC output from memory location DAC output cannot be started	·
Scan Effect Explanation Remedy 160025 Scan Effect	Starting DAC output DAC output cannot be started The selected signal is not available Correct signal selection Protected data area selected (segment) Starting DAC output from memory location DAC output cannot be started	·
Scan Effect Explanation Remedy 160025 Scan Effect Explanation	Starting DAC output DAC output cannot be started The selected signal is not available Correct signal selection Protected data area selected (segment) Starting DAC output from memory location DAC output cannot be started Selected address area is not allowed	·
Scan Effect Explanation Remedy 160025 Scan Effect Explanation	Starting DAC output DAC output cannot be started The selected signal is not available Correct signal selection Protected data area selected (segment) Starting DAC output from memory location DAC output cannot be started Selected address area is not allowed	·
Scan Effect Explanation Remedy 160025 Scan Effect Explanation Remedy 160026 Scan	Starting DAC output DAC output cannot be started The selected signal is not available Correct signal selection Protected data area selected (segment) Starting DAC output from memory location DAC output cannot be started Selected address area is not allowed Correct segment parameterization	OK softkey
Scan Effect Explanation Remedy 160025 Scan Effect Explanation Remedy	Starting DAC output DAC output cannot be started The selected signal is not available Correct signal selection Protected data area selected (segment) Starting DAC output from memory location DAC output cannot be started Selected address area is not allowed Correct segment parameterization Protected data area selected (offset)	OK softkey
Scan Effect Explanation Remedy 160025 Scan Effect Explanation Remedy 160026 Scan	Starting DAC output DAC output cannot be started The selected signal is not available Correct signal selection Protected data area selected (segment) Starting DAC output from memory location DAC output cannot be started Selected address area is not allowed Correct segment parameterization Protected data area selected (offset) When starting DAC output from memory location DAC output cannot be started	OK softkey
Scan Effect Explanation Remedy 160025 Scan Effect Explanation Remedy 160026 Scan Effect	Starting DAC output DAC output cannot be started The selected signal is not available Correct signal selection Protected data area selected (segment) Starting DAC output from memory location DAC output cannot be started Selected address area is not allowed Correct segment parameterization Protected data area selected (offset) When starting DAC output from memory location DAC output cannot be started	OK softkey
Scan Effect Explanation Remedy 160025 Scan Effect Explanation Remedy 160026 Scan Effect Explanation	Starting DAC output DAC output cannot be started The selected signal is not available Correct signal selection Protected data area selected (segment) Starting DAC output from memory location DAC output cannot be started Selected address area is not allowed Correct segment parameterization Protected data area selected (offset) When starting DAC output from memory location DAC output cannot be started Selected address area is not allowed	OK softkey
Scan Effect Explanation Remedy 160025 Scan Effect Explanation Remedy 160026 Scan Effect Explanation	Starting DAC output DAC output cannot be started The selected signal is not available Correct signal selection Protected data area selected (segment) Starting DAC output from memory location DAC output cannot be started Selected address area is not allowed Correct segment parameterization Protected data area selected (offset) When starting DAC output from memory location DAC output cannot be started Selected address area is not allowed Correct offset parameterization	OK softkey OK softkey
Scan Effect Explanation Remedy 160025 Scan Effect Explanation Remedy 160026 Scan Effect Explanation Remedy	Starting DAC output DAC output cannot be started The selected signal is not available Correct signal selection Protected data area selected (segment) Starting DAC output from memory location DAC output cannot be started Selected address area is not allowed Correct segment parameterization Protected data area selected (offset) When starting DAC output from memory location DAC output cannot be started Selected address area is not allowed	OK softkey
Scan Effect Explanation Remedy 160025 Scan Effect Explanation Remedy 160026 Scan Effect Explanation Remedy	Starting DAC output DAC output cannot be started The selected signal is not available Correct signal selection Protected data area selected (segment) Starting DAC output from memory location DAC output cannot be started Selected address area is not allowed Correct segment parameterization Protected data area selected (offset) When starting DAC output from memory location DAC output cannot be started Selected address area is not allowed Correct offset parameterization	OK softkey OK softkey
Scan Effect Explanation Remedy 160025 Scan Effect Explanation Remedy 160026 Scan Effect Explanation Remedy	Starting DAC output DAC output cannot be started The selected signal is not available Correct signal selection Protected data area selected (segment) Starting DAC output from memory location DAC output cannot be started Selected address area is not allowed Correct segment parameterization Protected data area selected (offset) When starting DAC output from memory location DAC output cannot be started Selected address area is not allowed Correct offset parameterization	OK softkey OK softkey
Scan Effect Explanation Remedy 160025 Scan Effect Explanation Remedy 160026 Scan Effect Explanation Remedy	Starting DAC output DAC output cannot be started The selected signal is not available Correct signal selection Protected data area selected (segment) Starting DAC output from memory location DAC output cannot be started Selected address area is not allowed Correct segment parameterization Protected data area selected (offset) When starting DAC output from memory location DAC output cannot be started Selected address area is not allowed Correct offset parameterization HIegal offset parameterization When starting DAC output DAC output cannot be started	OK softkey OK softkey

160028	Illegal shift factor parameterized	OK softkey
Scan	When starting DAC output	
Effect	DAC output cannot be started Shift factor is outside permissible range	
Remedy	Correct shift factor	
Remouy		
160029	Missing target hardware	OK softkey
Scan	When starting DAC output	-
Effect	DAC output cannot be started	
Explanation	-	
Remedy	-	
160030	Non-available DAC started	OK softkey
Scan	When starting DAC output	
Effect	DAC output cannot be started	
Explanation	A drive module which is not configured has been selected Select available drive module	
Remedy		
400004	Max number of come simple overeight	
160031 Scan	Max. number of servo signals exceeded When starting DAC output	OK softkey
Effect	DAC output cannot be started	
	A maximum of 4 SERVO signals can be output through DAC channels	
Remedy	Reduce number of output SERVO signals	
-		
160032	Max. number of active DACs exceeded	OK softkey
160032 Scan	Max. number of active DACs exceeded Parameterization/startingDAC output	OK softkey
-		OK softkey
Scan Effect Explanation	Parameterization/startingDAC output DAC output cannot be started Internal startup application error	OK softkey
Scan Effect	Parameterization/startingDAC output DAC output cannot be started	OK softkey
Scan Effect Explanation Remedy	Parameterization/startingDAC output DAC output cannot be started Internal startup application error End application and repeat procedure	
Scan Effect Explanation Remedy 160033	Parameterization/startingDAC output DAC output cannot be started Internal startup application error End application and repeat procedure DAC busy from other half of two-axis module	OK softkey OK softkey
Scan Effect Explanation Remedy 160033 Scan	Parameterization/startingDAC output DAC output cannot be started Internal startup application error End application and repeat procedure DAC busy from other half of two-axis module Parameterization/startingDAC output	
Scan Effect Explanation Remedy 160033 Scan Effect	Parameterization/startingDAC output DAC output cannot be started Internal startup application error End application and repeat procedure DAC busy from other half of two-axis module Parameterization/startingDAC output DAC output cannot be started	
Scan Effect Explanation Remedy 160033 Scan Effect Explanation	Parameterization/startingDAC output DAC output cannot be started Internal startup application error End application and repeat procedure DAC busy from other half of two-axis module Parameterization/startingDAC output DAC output cannot be started Three DAC channels exist on two-axis modules for both axes	
Scan Effect Explanation Remedy 160033 Scan Effect	Parameterization/startingDAC output DAC output cannot be started Internal startup application error End application and repeat procedure DAC busy from other half of two-axis module Parameterization/startingDAC output DAC output cannot be started	
Scan Effect Explanation Remedy 160033 Scan Effect Explanation Remedy	Parameterization/startingDAC output DAC output cannot be started Internal startup application error End application and repeat procedure DAC busy from other half of two-axis module Parameterization/startingDAC output DAC output cannot be started Three DAC channels exist on two-axis modules for both axes Select other output channel and repeat procedure or stop busy DAC	OK softkey
Scan Effect Explanation Remedy 160033 Scan Effect Explanation	Parameterization/startingDAC output DAC output cannot be started Internal startup application error End application and repeat procedure DAC busy from other half of two-axis module Parameterization/startingDAC output DAC output cannot be started Three DAC channels exist on two-axis modules for both axes	
Scan Effect Explanation Remedy 160033 Scan Effect Explanation Remedy 160034	Parameterization/startingDAC output DAC output cannot be started Internal startup application error End application and repeat procedure DAC busy from other half of two-axis module Parameterization/startingDAC output DAC output cannot be started Three DAC channels exist on two-axis modules for both axes Select other output channel and repeat procedure or stop busy DAC No axis configured	OK softkey
Scan Effect Explanation Remedy 160033 Scan Effect Explanation Remedy 160034 Scan	Parameterization/startingDAC output DAC output cannot be started Internal startup application error End application and repeat procedure DAC busy from other half of two-axis module Parameterization/startingDAC output DAC output cannot be started Three DAC channels exist on two-axis modules for both axes Select other output channel and repeat procedure or stop busy DAC No axis configured When selecting startup menus for axes Startup menu for axes disabled	OK softkey
Scan Effect Explanation Remedy 160033 Scan Effect Explanation Remedy 160034 Scan Effect	Parameterization/startingDAC output DAC output cannot be started Internal startup application error End application and repeat procedure DAC busy from other half of two-axis module Parameterization/startingDAC output DAC output cannot be started Three DAC channels exist on two-axis modules for both axes Select other output channel and repeat procedure or stop busy DAC No axis configured When selecting startup menus for axes Startup menu for axes disabled	OK softkey
Scan Effect Explanation Remedy 160033 Scan Effect Explanation Remedy 160034 Scan Effect Explanation	Parameterization/startingDAC output DAC output cannot be started Internal startup application error End application and repeat procedure DAC busy from other half of two-axis module Parameterization/startingDAC output DAC output cannot be started Three DAC channels exist on two-axis modules for both axes Select other output channel and repeat procedure or stop busy DAC No axis configured When selecting startup menus for axes Startup menu for axes disabled Startup menu for axes needs at least one NC axis Enter NC axis configuration	OK softkey OK softkey
Scan Effect Explanation Remedy 160033 Scan Effect Explanation Remedy 160034 Scan Effect Explanation Remedy 160035	Parameterization/startingDAC output DAC output cannot be started Internal startup application error End application and repeat procedure DAC busy from other half of two-axis module Parameterization/startingDAC output DAC output cannot be started Three DAC channels exist on two-axis modules for both axes Select other output channel and repeat procedure or stop busy DAC No axis configured When selecting startup menus for axes Startup menu for axes needs at least one NC axis Enter NC axis configuration	OK softkey
Scan Effect Explanation Remedy 160033 Scan Effect Explanation Remedy 160034 Scan Effect Explanation Remedy 160035 Scan	Parameterization/startingDAC output DAC output cannot be started Internal startup application error End application and repeat procedure DAC busy from other half of two-axis module Parameterization/startingDAC output DAC output cannot be started Three DAC channels exist on two-axis modules for both axes Select other output channel and repeat procedure or stop busy DAC No axis configured When selecting startup menus for axes Startup menu for axes needs at least one NC axis Enter NC axis configuration No drive module configured Selecting menu for DAC output	OK softkey OK softkey
Scan Effect Explanation Remedy 160033 Scan Effect Explanation Remedy 160034 Scan Effect Explanation Remedy 160035 Scan Effect	Parameterization/startingDAC output DAC output cannot be started Internal startup application error End application and repeat procedure DAC busy from other half of two-axis module Parameterization/startingDAC output DAC output cannot be started Three DAC channels exist on two-axis modules for both axes Select other output channel and repeat procedure or stop busy DAC No axis configured When selecting startup menus for axes Startup menu for axes disabled Startup menu for axes needs at least one NC axis Enter NC axis configuration No drive module configured Selecting menu for DAC output Startup menu for DAC output	OK softkey OK softkey
Scan Effect Explanation Remedy 160033 Scan Effect Explanation Remedy 160034 Scan Effect Explanation Remedy 160035 Scan	Parameterization/startingDAC output DAC output cannot be started Internal startup application error End application and repeat procedure DAC busy from other half of two-axis module Parameterization/startingDAC output DAC output cannot be started Three DAC channels exist on two-axis modules for both axes Select other output channel and repeat procedure or stop busy DAC No axis configured When selecting startup menus for axes Startup menu for axes disabled Startup menu for axes needs at least one NC axis Enter NC axis configuration No drive module configured Selecting menu for DAC output Startup menu for DAC output	OK softkey OK softkey

160036	No mixed I/O module configured	OK softkey
Scan	When selecting menus for mixed I/O output	
Effect	Startup menu for mixed I/O output is disabled	
Explanation	Menu for mixed I/O output requires mixed I/O hardware	
Remedy	-	
160037	No spindle configured	OK softkey
Scan	When selecting startup menu for spindles	
Effect	Startup menu for spindles is disabled	
Explanation	Startup menu for spindles requires at least one NC spindle	
Remedy	Enter NC spindle configuration	
160038	Error on DAC initialization	OK softkey
Scan	When starting startup application	-
Effect	DAC output cannot be started	
Explanation	Internal startup application error	
Remedy	Restart system and repeat procedure	
160039	Error in DAC selection for digital drives	OK softkey
Scan	When parameterizing DAC output	
Effect	DAC output cannot be started	
Explanation	Internal startup application error	
Remedy	Restart application and repeat procedure	
160040	Error in DAC selection for mixed I/Os	OK softkey
Scan	When parameterizing mixed I/O output	
Effect	Mixed I/O output cannot be started	
Explanation	Internal startup application error	
Remedy	Restart application and repeat procedure	
160041	No more memory space available	OK softkey
Scan	When starting startup application	-
Effect	Startup functions cannot be executed	
Explanation	No more system memory available	
Remedy	End other area application and repeat procedure	
160042	Measured values invalid	OK softkey
Scan	Measuring functions	-
Effect	Measuring function is aborted	
Explanation	Recorded measured values cannot be used	
Remedy	Check measuring parameters and repeat procedure. A higher amplitude must be selected most es	specially for path
	frequency response measurement	

160043 Illegal measurement/meas. value combination **OK softkey** Scan Parameterization/startingmeasuring functions Effect The measuring function cannot be started Explanation The selected measurement is not accessible with the selected signal Remedy Correct signal selection or measurement selection 160044 Travel function cannot be started **OK** softkey Scan When starting startup traversing movements Effect Function cannot be started Explanation Traversing function not possible because of an alarm, missing controller or feedrate enable Remedy Check enables, acknowledge alarms and repeat procedure 160045 Wrong axis/drive/channel number **OK softkey** Scan Startup application Effect Startup application cannot be started Explanation Selected axis/drive number does not exist Remedy Select available axis/drive number 160046 Axis/spindle has an analog drive **OK softkey** Scan When starting startup function Effect Startup function is not started Explanation A startup function which is not available for analog drives has been selected Remedy Select a different startup function 160047 **OK softkey** Axis/spindle has an FDD drive Scan Softkey parameter FDD Effect FDD parameters are not displayed Explanation No FDD parameters exist for MSD drive Remedy None 160048 Axis/spindle has an FDD drive **OK softkey** Scan Softkey parameter MSD Effect MSD parameters are not displayed Explanation No MSD parameters exist for FDD drive Remedy None 160049 **Compare error OK** softkey Scan Startup application Effect Function aborted Explanation Error on internal consistency check Remedy End application and restart 160050 Data not available **OK softkey** Scan Startup application Effect Function aborted Explanation Error on internal data access Remedy End application and restart

160051	Division by 0	OK softkey
Scan	Startup application	
Effect	Function aborted	
Explanation	Error on internal consistency check	
Remedy	End application and restart; check measuring parameters	
160052	Drive does not acknowledge messages	OK softkey
Scan	611D communication	
Effect	611D drives cannot be addressed	
Explanation	Communications partner on drive side is not available	
Remedy	Start up control/drive; deselect faulty module	
160053	Function generator already active	OK softkey
Scan	When starting function generator	
Effect	Start command is ignored if the function generator is already running	
Explanation		
Remedy	_	
riomody		
160054	Wrong block number/file name	OK softkov
Scan	Wrong block number/file name	OK softkey
Effect	611D communication	
	Function aborted	
	Error on internal consistency check	
Remedy	End application and restart	
4 COOFE		
160055	Absolutely no access rights	OK softkey
Scan	Startup application	OK softkey
Scan Effect	Startup application Startup function cannot be executed	OK softkey
Scan Effect Explanation	Startup application Startup function cannot be executed Access to required data not possible	OK softkey
Scan Effect	Startup application Startup function cannot be executed	OK softkey
Scan Effect Explanation Remedy	Startup application Startup function cannot be executed Access to required data not possible End application and restart	
Scan Effect Explanation Remedy 160056	Startup application Startup function cannot be executed Access to required data not possible End application and restart Error during job processing	OK softkey
Scan Effect Explanation Remedy 160056 Scan	Startup application Startup function cannot be executed Access to required data not possible End application and restart	
Scan Effect Explanation Remedy 160056 Scan Effect	Startup application Startup function cannot be executed Access to required data not possible End application and restart Error during job processing 611D communication Function aborted	
Scan Effect Explanation Remedy 160056 Scan Effect Explanation	Startup application Startup function cannot be executed Access to required data not possible End application and restart Error during job processing 611D communication Function aborted Error on internal consistency check	
Scan Effect Explanation Remedy 160056 Scan Effect	Startup application Startup function cannot be executed Access to required data not possible End application and restart Error during job processing 611D communication Function aborted	
Scan Effect Explanation Remedy 160056 Scan Effect Explanation	Startup application Startup function cannot be executed Access to required data not possible End application and restart Error during job processing 611D communication Function aborted Error on internal consistency check	
Scan Effect Explanation Remedy 160056 Scan Effect Explanation	Startup application Startup function cannot be executed Access to required data not possible End application and restart Error during job processing 611D communication Function aborted Error on internal consistency check	
Scan Effect Explanation Remedy 160056 Scan Effect Explanation Remedy	Startup application Startup function cannot be executed Access to required data not possible End application and restart Error during job processing 611D communication Function aborted Error on internal consistency check End application and restart	OK softkey
Scan Effect Explanation Remedy 160056 Scan Effect Explanation Remedy 160057	Startup application Startup function cannot be executed Access to required data not possible End application and restart Error during job processing 611D communication Function aborted Error on internal consistency check End application and restart Status does not permit job	OK softkey
Scan Effect Explanation Remedy 160056 Scan Effect Explanation Remedy 160057 Scan Effect	Startup application Startup function cannot be executed Access to required data not possible End application and restart Error during job processing 611D communication Function aborted Error on internal consistency check End application and restart Status does not permit job 611D communication	OK softkey
Scan Effect Explanation Remedy 160056 Scan Effect Explanation Remedy 160057 Scan Effect	Startup application Startup function cannot be executed Access to required data not possible End application and restart Error during job processing 611D communication Function aborted Error on internal consistency check End application and restart Status does not permit job 611D communication Function aborted	OK softkey
Scan Effect Explanation Remedy 160056 Scan Effect Explanation Remedy 160057 Scan Effect Explanation	Startup application Startup function cannot be executed Access to required data not possible End application and restart Error during job processing 611D communication Function aborted Error on internal consistency check End application and restart Status does not permit job 611D communication Function aborted Error on internal consistency check Error on internal consistency check	OK softkey
Scan Effect Explanation Remedy 160056 Scan Effect Explanation Remedy 160057 Scan Effect Explanation	Startup application Startup function cannot be executed Access to required data not possible End application and restart Error during job processing 611D communication Function aborted Error on internal consistency check End application and restart Status does not permit job 611D communication Function aborted Error on internal consistency check End application and restart	OK softkey OK softkey
Scan Effect Explanation Remedy 160056 Scan Effect Explanation Remedy 160057 Scan Effect Explanation Remedy	Startup application Startup function cannot be executed Access to required data not possible End application and restart Error during job processing 611D communication Function aborted Error on internal consistency check End application and restart Status does not permit job 611D communication Function aborted Error on internal consistency check End application and restart Job could not be processed	OK softkey
Scan Effect Explanation Remedy 160056 Scan Effect Explanation Remedy 160057 Scan Effect Explanation Remedy 160058	Startup application Startup function cannot be executed Access to required data not possible End application and restart Error during job processing 611D communication Function aborted Error on internal consistency check End application and restart Status does not permit job 611D communication Function aborted Error on internal consistency check End application and restart	OK softkey OK softkey
Scan Effect Explanation Remedy 160056 Scan Effect Explanation Remedy 160057 Scan Effect Explanation Remedy 160058 Scan Effect	Startup application Startup function cannot be executed Access to required data not possible End application and restart Error during job processing 611D communication Function aborted Error on internal consistency check End application and restart Status does not permit job 611D communication Function aborted Error on internal consistency check End application Function aborted Error on internal consistency check End application and restart Job could not be processed Startup application Function aborted	OK softkey OK softkey
Scan Effect Explanation Remedy 160056 Scan Effect Explanation Remedy 160057 Scan Effect Explanation Remedy 160058 Scan Effect	Startup application Startup function cannot be executed Access to required data not possible End application and restart Error during job processing 611D communication Function aborted Error on internal consistency check End application and restart Status does not permit job 611D communication Function aborted Error on internal consistency check End application and restart Status does not permit job 611D communication Function aborted Error on internal consistency check End application and restart Job could not be processed Startup application	OK softkey OK softkey

160059 Scan Effect Explanation Remedy	Measurement function already active When starting measuring function Start command is ignored if measuring function is already running.	OK softkey
160060 Scan Effect Explanation Remedy	Measurement in progress Startup applications measuring functions - Operational message during measuring function -	OK softkey
160061 Scan Effect Explanation Remedy	PI function code , error 0x Startup application Function aborted Error on internal consistency check End application and restart	OK softkey
160062 Scan Effect Explanation Remedy	Package sequence error Startup application Function aborted Error on internal consistency check End application and restart	OK softkey
160063 Scan Effect Explanation Remedy	Press "Accept configuration" softkey Startup application Application operating with inconsistent data Drive configuration must be updated after NCK reset or 611D ramp-up Press "OK" and "Accept configuration" softkeys	OK softkey
Scan Effect Explanation Remedy 160064 Scan Effect	Startup application Application operating with inconsistent data Drive configuration must be updated after NCK reset or 611D ramp-up	OK softkey
Scan Effect Explanation Remedy 160064 Scan Effect Explanation	Startup application Application operating with inconsistent data Drive configuration must be updated after NCK reset or 611D ramp-up Press "OK" and "Accept configuration" softkeys Log error 611D communication Function aborted Error on internal consistency check Start up control/drive; deselect faulty module System error start-up application Startup application Undefined	

1 Alarms 1.5.1 Alarm description

160067	Timeout	OK softkey
Scan	Startup application	
Effect	Startup function is not executed	
Explanation	Timeout error on internal communication	
Remedy	End application and restart	
160068	Illegal amplitude	OK softkey
Scan	Function generator or measuring function parameterization	-
Effect	Function cannot be started	
Explanation	The defined amplitude is illegal	
Remedy	Enter sensible amplitude value	
160069	Illegal amplitude 1	OK softkey
Scan	Function generator parameterization (square wave)	ON Soundy
Effect	The function cannot be started	
Remedy	Enter sensible amplitude value	
romody		
400070		
160070	Illegal amplitude 2	OK softkey
Scan 5#aat	Function generator parameterization (staircase)	
Effect	Function cannot be started	
Explanation		
Remedy	Enter sensible amplitude value	
160071	Illegal bandwidth	OK softkey
Scan	Function generator/measuring function parameterization	OK softkey
Scan Effect	Function generator/measuring function parameterization Function cannot be started	OK softkey
Scan Effect Explanation	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate	OK softkey
Scan Effect	Function generator/measuring function parameterization Function cannot be started	OK softkey
Scan Effect Explanation	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate	OK softkey
Scan Effect Explanation	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate	OK softkey OK softkey
Scan Effect Explanation Remedy	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth	
Scan Effect Explanation Remedy 160072 Scan Effect	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth Illegal scaling Function generator/measuring function parameterization The function cannot be started	
Scan Effect Explanation Remedy 160072 Scan Effect Explanation	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth Illegal scaling Function generator/measuring function parameterization The function cannot be started	
Scan Effect Explanation Remedy 160072 Scan Effect	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth Illegal scaling Function generator/measuring function parameterization The function cannot be started	
Scan Effect Explanation Remedy 160072 Scan Effect Explanation	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth Illegal scaling Function generator/measuring function parameterization The function cannot be started -	
Scan Effect Explanation Remedy 160072 Scan Effect Explanation	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth Illegal scaling Function generator/measuring function parameterization The function cannot be started -	
Scan Effect Explanation Remedy 160072 Scan Effect Explanation Remedy	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth Illegal scaling Function generator/measuring function parameterization The function cannot be started - Set permissible scaling	OK softkey
Scan Effect Explanation Remedy 160072 Scan Effect Explanation Remedy 160073	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth Illegal scaling Function generator/measuring function parameterization The function cannot be started Set permissible scaling Illegal period duration	OK softkey
Scan Effect Explanation Remedy 160072 Scan Effect Explanation Remedy 160073 Scan	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth Illegal scaling Function generator/measuring function parameterization The function cannot be started - Set permissible scaling Illegal period duration Function generator/measuring function parameterization The function cannot be started	OK softkey
Scan Effect Explanation Remedy 160072 Scan Effect Explanation Remedy 160073 Scan Effect	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth Illegal scaling Function generator/measuring function parameterization The function cannot be started - Set permissible scaling Illegal period duration Function generator/measuring function parameterization The function cannot be started	OK softkey
Scan Effect Explanation Remedy 160072 Scan Effect Explanation Remedy 160073 Scan Effect Explanation	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth IIIegal scaling Function generator/measuring function parameterization The function cannot be started - Set permissible scaling IIIegal period duration Function generator/measuring function parameterization The function cannot be started -	OK softkey
Scan Effect Explanation Remedy 160072 Scan Effect Explanation Remedy 160073 Scan Effect Explanation	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth Illegal scaling Function generator/measuring function parameterization The function cannot be started - Set permissible scaling Illegal period duration Function generator/measuring function parameterization The function cannot be started - Enter a sensible value not equal to zero	OK softkey OK softkey
Scan Effect Explanation Remedy 160072 Scan Effect Explanation Remedy 160073 Scan Effect Explanation Remedy	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth Illegal scaling Function generator/measuring function parameterization The function cannot be started - Set permissible scaling Illegal period duration Function generator/measuring function parameterization The function cannot be started - Enter a sensible value not equal to zero Illegal limitation	OK softkey
Scan Effect Explanation Remedy 160072 Scan Effect Explanation Remedy 160073 Scan Effect Explanation Remedy 160074	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth Illegal scaling Function generator/measuring function parameterization The function cannot be started - Set permissible scaling Illegal period duration Function generator/measuring function parameterization The function cannot be started - Enter a sensible value not equal to zero	OK softkey OK softkey
Scan Effect Explanation Remedy 160072 Scan Effect Explanation Remedy 160073 Scan Effect Explanation Remedy 160074 Scan	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth Illegal scaling Function generator/measuring function parameterization The function cannot be started - Set permissible scaling Illegal period duration Function generator/measuring function parameterization The function cannot be started - Inter a sensible value not equal to zero Illegal limitation Function generator/measuring function parameterization The function cannot be started - Inter a sensible value not equal to zero Illegal limitation Function generator/measuring function parameterization The function cannot be started	OK softkey OK softkey
Scan Effect Explanation Remedy 160072 Scan Effect Explanation Remedy 160073 Scan Effect Explanation Remedy	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth Illegal scaling Function generator/measuring function parameterization The function cannot be started - Set permissible scaling Illegal period duration Function generator/measuring function parameterization The function cannot be started - Inter a sensible value not equal to zero Illegal limitation Function generator/measuring function parameterization The function cannot be started - Inter a sensible value not equal to zero Illegal limitation Function generator/measuring function parameterization The function cannot be started	OK softkey OK softkey
Scan Effect Explanation Remedy 160072 Scan Effect Explanation Remedy 160073 Scan Effect Explanation Remedy 160074 Scan Effect Explanation	Function generator/measuring function parameterization Function cannot be started The bandwidth must be <= of half the sampling rate Set permissible bandwidth Illegal scaling Function generator/measuring function parameterization The function cannot be started - Set permissible scaling Illegal period duration Function generator/measuring function parameterization The function cannot be started - Inter a sensible value not equal to zero Illegal limitation Function generator/measuring function parameterization The function generator/measuring function parameterization	OK softkey OK softkey

400075		
160075	Illegal measuring time	OK softkey
Scan Effect	Measuring function parameterization	
	The function cannot be started The defined measuring time is too great	
Remedy	Enter a smaller value not equal to zero	
Nemeuy		
160076	Illegal operating mode	OK softkey
Scan	Function generator/measuring function parameterization	
Effect	The function cannot be started	
Explanation	Stated mode cannot be executed (check by servo/611D)	
	Possible causes:	
	 Start-up function of an axis in spindle operation Start-up function of a spindle in C axis operation 	
	 Travel against fixed stop is active 	
	 The axis/spindle is a GI following axis/spindle The axis/spindle is a slave axis/spindle 	
	 The axis/spindle is a slave axis/spindle Start-up function of a spindle without encoder (MD 520*, bit 2) 	
Remedy	Enter a different operating mode	
·		
160077	Illegal offset	OK softkey
Scan	Function generator/measuring function parameterization	
Effect	The function cannot be started	
Explanation	Stated value too high	
Remedy	Enter a smaller value	
160078	Illegal settling time	OK softkey
Scan	Measuring function parameterization	,
Effect	The function cannot be started	
Explanation	Stated value too high	
Remedy	Enter smaller value	
-		
160079	Illegal pulse width	OK softkey
Scan	Function generator parameterization	-
Effect	Function cannot be started	
Explanation	-	
Remedy	Enter sensible value	
160080	Illegal ramp duration	OK softkey
Scan	Measuring function parameterization	,
Effect	Function cannot be started	
Explanation	-	
Remedy	Enter smaller value	
160081	Illegal traversing range limits	OK softkey
Scan	Function generator/measuring function parameterization	enconnoy
Effect	The function cannot be started	
Explanation		
Remedy	Enter lower value; "0" means no monitoring	
2		

160082	Illegal signal type	OK softkey
Scan	Function generator parameterization	-
Effect	The function cannot be started	
Explanation	The selected function is not possible with this signal	
, Remedy	Change signal type	
160083	Value not allowed	OK softkey
Scan	Startup application	
Effect	The function is not executed	
	The value concerned is not within the permissible value range (negative acknowledgement with va	ariables service)
Remedy	Correct input	
rtomody		
160084	Value > maximum value	OK softkey
Scan	Function generator/measuring function parameterization	on control
Effect	The function cannot be started	
Explanation		
Remedy	Enter lower value	
riomody		
160085	Value < minimum value	OK softkey
Scan	Function generator/measuring function parameterization	-
Effect	The function cannot be started	
Explanation	The value in question is below the permissible minimum value	
Remedy	Enter larger value	
160086	Max. acceleration too large Initialization value too large Fine quantization too large Number of learning runs too large	OK softkey
Scan	Reparameterization of the maximum acceleration (function parameters of the neural quadrant	error compensa-
	tion)	
	 Reparameterization of the initialization value (function parameters of the neural quadrant error Reparameterization of the fine quantization (function parameters of the neural quadrant error of 	
	 Reparameterization of the number of learning runs (function parameters of the neural quadran sation) 	· /
Effect	Start-up function aborts	
Explanation		276* and the
,	function generator has been started with this. b) The maximum working area exceeds internal format limits (even without function generator	
	• The initialization value of the neural quadrant error compensation is limited to 1% of the maxim	num speed in
	order to prevent uncontrolled injections during the learning phase if the network has not yet es characteristic. In the 1st learning run, this value is used as injection amplitude.	tablished the
	 The fine quantization must be greater than/equal to 4 and less than/equal to 32. 	
	• The number of learning runs must not be less than 5 or greater than 40.	
Remedy	Enter a smaller value in the function parameter max. acceleration.	
	 Enter a value between 0 and 1% (resolution 0.001%). Enter a valid value in the first quantization. 	

Enter a valid value in the fine quantization. Enter a valid value.

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160087	Max. acceleration too small Fine quantization too small Coarse quantization too small Number of learning runs too small	OK softkey
Scan	 Reparameterization of the maximum acceleration (function parameter of the neural quadrant et ion) Reparameterization of the fine quantization (function parameter of the neural quadrant error consequence) Reparameterization of the coarse quantization (function parameter of the neural quadrant error consequence) Reparameterization of the number of learning runs (function parameter of the neural quadrant error tion) 	ompensation) r compensation)
Effect	Start-up function aborts	
Explanation	 Input of maximum acceleration zero is not allowed. Fine quantization must be greater than or equal to 4 and less than or equal to 32. Coarse quantization must be greater than 1. A number of learning runs less than 5 or greater than 40 is not allowed. 	
Remedy	 Enter a larger value in the function parameter max. acceleration. Enter a valid value in the fine quantization. Enter a valid value in the coarse quantization. Enter a valid value. 	
160088 Scan	Axis/spindle name invalid DAC function parameterization	OK softkey
Effect	The function cannot be started	
Explanation	The stated axis/spindle does not exist	
Remedy	Correct input	
160089	Axis/spindle number invalid	OK softkey
Scan	DAC function parameterization	
Effect	The function cannot be started	
	The stated axis/spindle does not exist	
Remedy	Correct input	
160090 Scan	Hard disk full, create file Startup application file services	OK softkey
Effect	The data set in question is not stored	
	Note enough memory on hard disk	
Remedy	Remove file not required	
160091	Data block of file invalid	OK softkey
Scan	Startup application file services (read only)	
Effect	No data is read	
Explanation	The contents of the selected file are not consistent	
Remedy	None	
160092	File not loaded completely	OK softkey
Scan	Startup application file services (read only)	
Effect	The read data set is not complete	
Explanation	Contents of file were not transferred completely	
Remedy	Repeat procedure	

160093	File not saved completely	OK softkey
Scan	Startup application file services (write)	
Effect	Incomplete data set created	
Explanation	File contents not completely transferred	
Remedy	Repeat procedure	
160094	File does not exist	OK softkey
Scan	Startup application file services (read only)	
Effect	No data is read	
Explanation	The stated file does not exist	
Remedy	Correct file selection	
160095	Error on reading from file	OK softkey
Scan	Startup application file services (read only)	
Effect	No data or only inconsistent data are read	
Explanation	-	
Remedy	Contact service	
160096	Error in filo structure	OK aaftkav
-	Error in file structure	OK softkey
Scan	Startup application file services (read only)	
Effect	No data read in	
Explanation		
Remedy	None	
160097	Hard disk full, write file	OK softkey
Scan	Hard disk full, write file Startup application file services (write)	OK softkey
_		OK softkey
Scan	Startup application file services (write) No data or only inconsistent data are written	OK softkey
Scan Effect	Startup application file services (write) No data or only inconsistent data are written	OK softkey
Scan Effect Explanation	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems	OK softkey
Scan Effect Explanation	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems	OK softkey OK softkey
Scan Effect Explanation Remedy	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems Remove files not required	
Scan Effect Explanation Remedy 160098	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems Remove files not required Data block of file not available	
Scan Effect Explanation Remedy 160098 Scan	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems Remove files not required Data block of file not available Startup application file services (read only) No data read in	
Scan Effect Explanation Remedy 160098 Scan Effect	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems Remove files not required Data block of file not available Startup application file services (read only) No data read in	
Scan Effect Explanation Remedy 160098 Scan Effect Explanation	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems Remove files not required Data block of file not available Startup application file services (read only) No data read in The file does not contain any data for the selected axis/drive	
Scan Effect Explanation Remedy 160098 Scan Effect Explanation Remedy	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems Remove files not required Data block of file not available Startup application file services (read only) No data read in The file does not contain any data for the selected axis/drive None	OK softkey
Scan Effect Explanation Remedy 160098 Scan Effect Explanation Remedy 160099	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems Remove files not required Data block of file not available Startup application file services (read only) No data read in The file does not contain any data for the selected axis/drive None File not loaded	
Scan Effect Explanation Remedy 160098 Scan Effect Explanation Remedy 160099 Scan	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems Remove files not required Data block of file not available Startup application file services (read only) No data read in The file does not contain any data for the selected axis/drive None File not loaded Startup application file services (read only)	OK softkey
Scan Effect Explanation Remedy 160098 Scan Effect Explanation Remedy 160099 Scan Effect	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems Remove files not required Data block of file not available Startup application file services (read only) No data read in The file does not contain any data for the selected axis/drive None File not loaded Startup application file services (read only) No data is read in	OK softkey
Scan Effect Explanation Remedy 160098 Scan Effect Explanation Remedy 160099 Scan Effect Explanation	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems Remove files not required Data block of file not available Startup application file services (read only) No data read in The file does not contain any data for the selected axis/drive None File not loaded Startup application file services (read only) No data is read in	OK softkey
Scan Effect Explanation Remedy 160098 Scan Effect Explanation Remedy 160099 Scan Effect	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems Remove files not required Data block of file not available Startup application file services (read only) No data read in The file does not contain any data for the selected axis/drive None File not loaded Startup application file services (read only) No data is read in	OK softkey
Scan Effect Explanation Remedy 160098 Scan Effect Explanation Remedy 160099 Scan Effect Explanation Remedy	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems Remove files not required Data block of file not available Startup application file services (read only) No data read in The file does not contain any data for the selected axis/drive None File not loaded Startup application file services (read only) No data is read in –	OK softkey OK softkey
Scan Effect Explanation Remedy 160098 Scan Effect Explanation Remedy 160099 Scan Effect Explanation Remedy 160100	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems Remove files not required Data block of file not available Startup application file services (read only) No data read in The file does not contain any data for the selected axis/drive None File not loaded Startup application file services (read only) No data is read in - Repeat procedure File not saved	OK softkey
Scan Effect Explanation Remedy 160098 Scan Effect Explanation Remedy 160099 Scan Effect Explanation Remedy 160100 Scan	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems Remove files not required Data block of file not available Startup application file services (read only) No data read in The file does not contain any data for the selected axis/drive None File not loaded Startup application file services (read only) No data is read in - Repeat procedure File not saved Startup application file services (write)	OK softkey OK softkey
Scan Effect Explanation Remedy 160098 Scan Effect Explanation Remedy 160099 Scan Effect Explanation Remedy 160100 Scan Effect	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems Remove files not required Data block of file not available Startup application file services (read only) No data read in The file does not contain any data for the selected axis/drive None File not loaded Startup application file services (read only) No data is read in - Repeat procedure File not saved Startup application file services (write) Data set is not stored	OK softkey OK softkey
Scan Effect Explanation Remedy 160098 Scan Effect Explanation Remedy 160099 Scan Effect Explanation Remedy 160100 Scan	Startup application file services (write) No data or only inconsistent data are written Bulk storage device access problems Remove files not required Data block of file not available Startup application file services (read only) No data read in The file does not contain any data for the selected axis/drive None File not loaded Startup application file services (read only) No data is read in - Repeat procedure File not saved Startup application file services (write) Data set is not stored	OK softkey OK softkey

160101 Scan	Internal error, end startup Startup application	OK softkey
Effect		
	Startup application cannot be executed because of internal error	
Remedy	No startup application or end startup application	
160102	Memory area exceeded	OK softkey
Scan	Start-up application at start of neural quadrant error compensation	
Effect	The function cannot be started	
Explanation	Fine quantization * (coarse quantization +1) must be less than or equal to 1000	
Remedy Note	Reduce the size of fine and coarse quantization Applies as from SW 4	
Note		
160103	Invalid address assignment	OK softkey
Scan	Start-up application at start of neural quadrant error compensation	,
Effect	The function cannot be started	
Explanation	Error in the parameterization of limit lower or upper area	
Remedy	Correct inputs	
Note	Applies as from SW 4	
160104	Learning phase active file functions not possible	OK softkey
Scan Effect	Start-up application at file functions in the neural quadrant error compensation	
Explanation	Access to the file functions not possible No file functions are allowed while measurement is taking place	
Remedy	Stop measurement or wait for end of measurement	
Note	Applies as from SW 4	
160105	QEC bits not set	OK softkey
Scan	Start-up application at start of neural quadrant error compensation	-
Effect	The function cannot be started	
,	The activation bit of the neural QEC (NC MD) is not set	
Remedy	Set QEC bits	
Note	Applies as from SW 4	
160106	Feedforward control not activated	OK softkey
Scan	Start-up application at start of neural quadrant error compensation	ON SOURCY
Effect	The function cannot be started	
Explanation	The speed feedforward control must be activated	
Remedy	Activate speed feedforward control (option, NC MD, PLC bit)	
Note	Applies as from SW 4	
		01/ 1-1
160107	Axes not configured	OK softkey
Scan Effect	Start-up application at start of circle form test The function cannot be started	
Eneci		
Remedy	Configure axes	
Note	Applies as from SW 4	

160108 Scan Effect Explanation Remedy Note	No trace activated Start-up application at start of SERVO TRACE function SERVO trace is not started All traces are switched passive or no signal selected Switch at least one trace to active Applies as from SW 4	OK softkey
160109 Scan Effect Explanation Remedy Note	Trace buffer already assigned Start-up application at start of SERVO TRACE function SERVO trace is not started Trace buffer assigned by measuring function Stop measuring function and restart Trace Applies as from SW 4	OK softkey
160110 Scan Effect Explanation Remedy Note	Illegal NC No Start-up application at start of SERVO TRACE function SERVO trace is not started NC No. is illegal Specify axis name for a valid NC axis/spindle Applies as from SW 4	OK softkey
160111 Scan Effect Explanation Remedy Note	Illegal component Start-up application at start of SERVO TRACE function SERVO trace is not started Component is illegal Specify valid component (SERVO) Applies as from SW 4	OK softkey
160112 Scan Effect Explanation Remedy Note	Illegal signal selection Start-up application at start of SERVO TRACE function SERVO trace is not started Signal number is illegal Specify valid signal number Applies as from SW 4	OK softkey
160113 Scan Effect Explanation Remedy Note	Illegal segment address Start-up application at start of SERVO TRACE function SERVO trace is not started Segment address is illegal Specify legal segment address Applies as from SW 4	OK softkey

160114 Scan Effect Explanation Remedy Note	Illegal offset address Start-up application at start of SERVO TRACE function SERVO trace is not started Offset address is illegal Specify legal offset address Applies as from SW 4	OK softkey
160115 Scan Effect Explanation Remedy Note	Illegal measurement duration Start-up application at start of SERVO TRACE function SERVO trace is not started Measuring duration is illegal Specify legal measuring duration Applies as from SW 4	OK softkey
160116 Scan Effect Explanation Remedy Note	Illegal trigger time Start-up application at start of SERVO TRACE function SERVO trace is not started Trigger time is illegal Specify legal trigger time Applies as from SW 4	OK softkey
160117 Scan Effect Explanation Remedy Note	Illegal mode Start-up application at start of SERVO TRACE function SERVO trace is not started Mode is illegal Specify legal mode (0) Applies as from SW 4	OK softkey
160118 Scan Effect Explanation Remedy Note	Illegal trigger condition Start-up application at start of SERVO TRACE function SERVO trace is not started Trigger condition is illegal Specify legal trigger condition Applies as from SW 4	OK softkey
160119 Scan Effect Explanation Remedy Note	Conversion error Start-up application when converting the TRACE buffer Signal values in the Trace buffer could not be converted - - Applies as from SW 4	OK softkey

160120

Wrong Trace number (domain) ...

0		•
Scan	Start-up application when reading out the TRACE buffer	
Effect	Trace buffer could not be displayed	
Explanation	-	
Remedy	-	
Note	Applies as from SW 4	
160121	Trace header not initialized (domain)	OK softkey
Scan	Start-up application when reading out the TRACE buffer	
Effect	Trace buffer could not be displayed	
Explanation	-	
Remedy	-	
Note	Applies as from SW 4	
	— · · · · · · · · · · · · · · · · · · ·	
160122	Trace active, no data (domain)	OK softkey
Scan	Start-up application when reading out the TRACE buffer while Trace function is running	
Effect	Trace buffer could not be displayed	
Explanation	-	
Remedy	-	
Note	Applies as from SW 4	
460400	llegal trigger threshold	
160123	Illegal trigger threshold	OK softkey
Scan	Start-up application at start of SERVO TRACE function	OK softkey
Scan Effect	Start-up application at start of SERVO TRACE function SERVO trace is not started	OK softkey
Scan Effect Explanation	Start-up application at start of SERVO TRACE function SERVO trace is not started	OK softkey
Scan Effect	Start-up application at start of SERVO TRACE function SERVO trace is not started	OK softkey
Scan Effect Explanation	Start-up application at start of SERVO TRACE function SERVO trace is not started	OK softkey
Scan Effect Explanation Remedy	Start-up application at start of SERVO TRACE function SERVO trace is not started 	OK softkey
Scan Effect Explanation Remedy Note	Start-up application at start of SERVO TRACE function SERVO trace is not started - - Applies as from SW 4	
Scan Effect Explanation Remedy Note 160124	Start-up application at start of SERVO TRACE function SERVO trace is not started - - Applies as from SW 4 Option is not available	OK softkey OK softkey
Scan Effect Explanation Remedy Note 160124 Scan	Start-up application at start of SERVO TRACE function SERVO trace is not started - - Applies as from SW 4 Option is not available Start-up application on selecting the circle form test function	
Scan Effect Explanation Remedy Note 160124 Scan Effect	Start-up application at start of SERVO TRACE function SERVO trace is not started - - Applies as from SW 4 Option is not available Start-up application on selecting the circle form test function Circle form test cannot be selected	
Scan Effect Explanation Remedy Note 160124 Scan Effect Explanation	Start-up application at start of SERVO TRACE function SERVO trace is not started - - Applies as from SW 4 Option is not available Start-up application on selecting the circle form test function Circle form test cannot be selected	
Scan Effect Explanation Remedy Note 160124 Scan Effect Explanation Remedy	Start-up application at start of SERVO TRACE function SERVO trace is not started - - Applies as from SW 4 Option is not available Start-up application on selecting the circle form test function Circle form test cannot be selected - Set circle form test option	
Scan Effect Explanation Remedy Note 160124 Scan Effect Explanation	Start-up application at start of SERVO TRACE function SERVO trace is not started - - Applies as from SW 4 Option is not available Start-up application on selecting the circle form test function Circle form test cannot be selected	
Scan Effect Explanation Remedy Note 160124 Scan Effect Explanation Remedy	Start-up application at start of SERVO TRACE function SERVO trace is not started - - Applies as from SW 4 Option is not available Start-up application on selecting the circle form test function Circle form test cannot be selected - Set circle form test option	
Scan Effect Explanation Remedy Note 160124 Scan Effect Explanation Remedy	Start-up application at start of SERVO TRACE function SERVO trace is not started - - Applies as from SW 4 Option is not available Start-up application on selecting the circle form test function Circle form test cannot be selected - Set circle form test option Applies as from SW 4	OK softkey
Scan Effect Explanation Remedy Note 160124 Scan Effect Explanation Remedy Note 160125	Start-up application at start of SERVO TRACE function SERVO trace is not started - - Applies as from SW 4 Option is not available Start-up application on selecting the circle form test function Circle form test cannot be selected - Set circle form test option Applies as from SW 4 Trace buffer already assigned	
Scan Effect Explanation Remedy Note 160124 Scan Effect Explanation Remedy Note 160125 Scan	Start-up application at start of SERVO TRACE function SERVO trace is not started - - Applies as from SW 4 Option is not available Start-up application on selecting the circle form test function Circle form test cannot be selected - Set circle form test option Applies as from SW 4 Trace buffer already assigned Start-up application on starting a measurement function	OK softkey
Scan Effect Explanation Remedy Note 160124 Scan Effect Explanation Remedy Note 160125 Scan Effect	Start-up application at start of SERVO TRACE function SERVO trace is not started - - Applies as from SW 4 Option is not available Start-up application on selecting the circle form test function Circle form test cannot be selected - Set circle form test option Applies as from SW 4 Trace buffer already assigned Start-up application on starting a measurement function Measurement function is not started.	OK softkey
Scan Effect Explanation Remedy Note 160124 Scan Effect Explanation Remedy Note 160125 Scan Effect Explanation	Start-up application at start of SERVO TRACE function SERVO trace is not started - - - Applies as from SW 4 Option is not available Start-up application on selecting the circle form test function Circle form test cannot be selected - Set circle form test option Applies as from SW 4 Trace buffer already assigned Start-up application on starting a measurement function Measurement function is not started. Trace buffer is already assigned by Servo Trace	OK softkey
Scan Effect Explanation Remedy Note 160124 Scan Effect Explanation Remedy Note 160125 Scan Effect	Start-up application at start of SERVO TRACE function SERVO trace is not started - - Applies as from SW 4 Option is not available Start-up application on selecting the circle form test function Circle form test cannot be selected - Set circle form test option Applies as from SW 4 Trace buffer already assigned Start-up application on starting a measurement function Measurement function is not started.	OK softkey

160126 Data not available on Servo

Scan Start-up application at SK display and SK file function. Save with neural QEC or SK stop at Servo Trace.

Effect The characteristic of the neural QEC for the selected axis is not loaded from the Servo side to the MMC side. With Servo Trace, the data are not loaded to the MMC side.

Explanation The data characteristic is not yet available on the Servo side.

Enter the function parameters of the neural QEC for the axis and start the learning process or press the parameter Remedy transfer softkey. The characteristic is then available. With Servo Trace, parameterize correctly (observe the trigger conditions) and restart.

Note Applies as from SW 4

160127 Illegal channel / IKA No.

Scan	Start-up applications when starting the servo-trace function for NCK signals.
Effect	Servo-trace is not started.
Explanation	
Remedy	Enter permissible channel/IKA No. and restart.
Note	Alarm in SW 5 and higher

161001 Function abort by the operator

Scan Startup function Effect None Explanation Operational message after operator action Remedy Stop Servo Trace and restart measurement function

161002 Function abort by SERVO error ...

Scan Startup application Effect Current startup function aborted Explanation A system error has caused the active function to terminate The following errors (No. and meaning) are possible: "Axial alarm active" 81 82

- "Above traversing range upper limit" "Below traversing range lower limit" "No axial SERVO enable" 83
- 84 85
 - "No PLC enable" "SERVO mode change"
- 86 "MF on SERVO aborted"
- 87 88 "Reset"
- 89 Axis/spindle not in stop state"
- 90 Spindle ramp-up encoder stop from PLC"
- Remedy End application and restart

OK softkey

1 Alarms

161003 Function abort due to 611D error ...

- Scan Startup application
- Effect Current startup function aborted

Explanation A system error has caused the active function to terminate.

Function abort function generator:

- Function generator already active
- Wrong mode
- Selected servo cycle is 0
- Length of period is 0 or > 1000 s
- Scaling is negative
- Amplitude 1 is negative or greater than allowed
- Offset is beyond the allowed limits
- Limitation is greater than allowed
- Wrong curve form
- Pulse width is negative or greater than the length of period •
- Bandwidth is < 1 or > 100000
- Calculation of a register length for the noise signal from length of period and bandwidth for which no provision has been made
- Scaling change with inactive function generator
- Furthermore the following errors (No. and meaning) are possible: 97 "Measuring function 611D aborted with error" 98 "611D ends FG mode, was already active"

 - "No pulse enable" qq
- 100 "Timer expired, 611D does not respond"
- Function abort measuring functions:
- Measuring function is already active
- Measuring type not in permitted range
- Measured value not input
- There is a gap in the measured values input
- Remedy Start up control/drive again and repeat procedure

161004 **Measurement aborted**

Scan Startup application

- Effect Current measurement aborted
- Explanation Current measurement aborted because of system error
- Remedy Start up control/drive again and repeat procedure

161005 Function abort by NC error ...

Scan Startup application traversing function

Effect The traversing function in question aborted

Explanation Traversing function aborted because of system error or operator action.

General error

- "Emergency stop"
- "Warm restart" 2

Mode Group error "Mode change" 17

Channel error

- "Not all channels in reset state"
- 33 34 "Reset"
- "Feed hold" or "feed override = 0" 35
- 36 "NC-STOP
- 37 "No channel defined"

Axis error

- "Servo enable" "Parking axis" 49
- 50
- 51 "Feed hold"
- 52 "Follow-up"
- 53 54 "Axis disable"
- "Hardware limit switch"
- 55 "Working area limitation +"
- "Working area limitation -" 56
- "Traversing range –" 57 58
- "Error conversion actual value system" 59

- Spindle error 65 "PLC control for spindle"
 - "Spindle reset" 66
 - "Spindle servo enable" 67
- "Setpoint = 0" 68
- "Park" 69 70 "Spindle stop"
- Remedy If system error occurs, start up control again and repeat procedure

161006 Function generator is running

- Scan Startup application function generator Effect _ Explanation Function generator operational message
- Remedy

161007 Measurement current control loop in progress

Scan	Startup application measuring function current
Effect	-
Explanation	Current controller measuring function operational message
Remedy	-

161008 Measurement position control loop in progress

Scan Startup application position controller measuring function Effect Explanation Position controller measuring function operational message Remedy

161009 Measurement speed control loop in progress

Scan	Startup application speed controller measuring function
Effect	-
Explanation	Speed controller measuring function operational message
Remedy	-

161010 Please press NC start

Scan	Selecting traversing movement during startup application
Effect	_
Explanation	Control waits for traversing function enable with "NC START"
Remedy	Press NC START

161011 Wait for PLC enable

Scan	Selecting traversing movement during startup application
Effect	_
Explanation	Control waits for PLC safety signal
Remedy	PLC safety signal scan can be deselected with "Enable: internal"

161012 Measuring for circularity test in progress

Scan	Start-up application after start of circularity test
Effect	-
Explanation	The control performs circularity test
Remedy	-
Note	Applies as from SW 4

161013 Measuring for neural QEC in progress

Scan	Start-up application after start of neural QEC
Effect	_
Explanation	The control performs neural QEC
Remedy	_
Note	Applies as from SW 4

161014 Trace function is started

Scan	Start-up application after start of SERVO Trace function
Effect	_
Explanation	The control performs SERVO Trace
Remedy	_
Note	Applies as from SW 4

161015 Trace started ...

Scan	Start-up application after recording has started within the control for all active Trace buffers
Effect	-
Explanation	The selected Trace signals are recorded
Remedy	-
Note	Applies as from SW 4

161016 Scan	Trace triggered Start-up application after trigger has occurred within the control for all active trace buffers.	
Effect Explanation Remedy	 The selected triggers have been reached for all active Trace buffers 	
Note	Applies as from SW 4	
161017	Trace concluded	
Scan Effect	Start-up application after end of recording within control for all active Trace buffers.	
Effect Explanation	 The selected traces have all been concluded, i.e. the selected measuring time has expired. 	
Remedy		
Note	Applies as from SW 4	
161018	Trace function aborted	
Scan	Start-up application while Trace function in progress	
Effect	All active trace functions are aborted	
Explanation Remedy	The selected traces are aborted before expiry of the measuring time	
Note	– Applies as from SW 4	
165001	No drive is assigned to this slot	OK softkey
Scan	Storing, loading MD from an individual drive	
Effect	Function is not executed	
	Defined drive number is not assigned to any slot	
Remedy	Match drive configuration and accept	
165002	No data has been transmitted	OK softkey
Scan	Loading MD files	
Effect	Function not executed	
	The selected file does not contain the required MD	
Remedy	Select another file	
165003	There is no free memory left	OK softkey
Scan		ON SUILLEY
Effect	_	
	This message appears as a result of the previous operation and is self-explanatory	
Remedy	-	
165004	The DDPAM is assigned - data was not transforred	OK softkov
Scan	The DPRAM is assigned – data was not transferred Saving, loading MD files	OK softkey
Effect	Function is not executed	
	The link PC to NC is busy.	
Remedy	Wait, startup end, NCK reset or Power On	

165005	Error in data transfer	OK softkey
Scan	Loading drive standard data	
Effect	Some data in the drive are invalid	
Explanation	Data not completely transferred	
Remedy	Repeat operation	
165007	Data is stored with errors	OK softkey
Scan	Saving machine data	
Effect	An invalid file was stored	
Explanation	Data was not completely transferred	
Remedy	Delete file, repeat operation	
165008	Selected drive has no FDD module	OK softkey
Scan	Drive MD: select motor	en conney
Effect	Function is not executed	
	No active FDD drive available	
Remedy	Enter FDD in drive configuration and accept	
rieniedy		
405000	N	
165009	No valid slot selected	OK softkey
Scan	Drive configuration: select module or delete slot	
Effect	Function is not executed	
	No valid slot number was entered	
Remedy	Enter valid number (1–15), repeat operation	
165010	Drive not active	OK softkey
Scan	Saving or loading MD of an individual drive	-
Effect	Function is not executed	
Explanation	There is no connection to the passive drives	
Remedy	Switch drive to active, accept configuration	
-		
165011	Transmission error – data not transferred	OK softkey
Scan	Saving, loading machine data	ON SOURCEY
Effect	Function is not executed	
Explanation		
Remedy	Repeat operation	
Remedy		
165012	There is no file with FDD motors	OK softkey
Scan	Drive MD/FDD/motor selection	
Effect	No default possible for motor	
	There is no system file	
Remedy	Please notify Siemens Service	
Note	Applies as from SW 4	

405040	There is no file with eningle drive motors	
165013	There is no file with spindle drive motors	OK softkey
Scan Effect	Drive MD/MSD/motor selection	
Effect	No default possible for motor	
•	There is no system file	
Remedy	Please notify Siemens Service	
Note	Applies as from SW 4	
165014	Selected drive has no spindle drive module	OK softkey
Scan	Drive MD: select motor	ON SOURCY
Effect	Function is not executed	
	No active MSD drive available	
Remedy		
Nemeuy	Enter MSD in drive configuration and transfer.	
165015	Data transmission has been aborted	OK softkey
Scan	_	-
Effect	_	
Explanation	This message always appears when the "Abort" softkey has been pressed during a file function a effective. The file function has therefore been performed incompletely. Because an incomplete file lead to inconsistent data, an aborted loading operation, for example, should be repeated or the replete save operation, for example, should not be used. If the operation could no longer be interrupted at the time of operating the Abort key, e.g. because	function can sult of an incom-
D (been completed to the maximum possible extent, then this message does not appear.	
Remedy	Repeat operation if necessary.	
165016	No file name entered	OK softkey
Scan	Save, load, delete, copy MD file functions	
Effect	Function is not executed	
Explanation	Call up function again, enter correct name	
Remedy	-	
165017	No valid file name entered	OK softkey
Scan	Save, load, delete, copy MD file functions	
Effect	Function is not executed	
Explanation	Name entered using illegal characters	
Remedy	Call function again, enter correct name	
165018	File must not be deleted	OK softkey
Scan	Deleting MD files	-
Effect	Function is not executed	
	<online> and STANDARD data cannot be deleted</online>	
Remedy	_	
- ,		
165019	File cannot be edited	OK softkey
Scan		UN SUILLEY
Effect	Selecting Edit or Edit new Function is not executed	
Explanation Pomody	BOOT files cannot be edited.	
Remedy	-	

165020	Error on selecting file	OK softkey
Scan	Selection of Edit or Edit new	
Effect	Function is not performed	
Explanation	Internal error on file selection	
Remedy	Please notify Siemens Service	
Note	Applies as from SW 4	
165021	Drive configuration has not been saved	OK softkey
Scan	Saving, loading drive MD	•
Effect	Function is not executed	
Explanation	The configuration must first be saved	
Remedy	Press softkey "Accept conf.+NCKPO", repeat operation	
-		
165022	Data has not been written on hard disk	OK softkey
Scan	Saving machine data	ON Softkey
Effect	Files incomplete	
	Hard disk is probably full	
Remedy	Check free memory on hard disk	
Remeay	Check nee memory of hard disk	
405000		
165023	Drive is not in configuration	OK softkey
Scan	Saving, loading drive MD	
Effect	Fuchtion is not executed	
Explanation		
Remedy	Change configuration and accept, with repeat operation	
165024	Selected file cannot be copied	OK softkey
Scan	Copying MD files	
Effect	Function is not executed	
Explanation	BOOT or <online> data was selected</online>	
Remedy	Select standard or user file	
165025	Error: file has not been copied	OK softkey
Scan	Copying MD files	-
Effect	Function is not executed	
Explanation	The named file does not exist	
Remedy	-	
165026	Name is reserved for standard data	OK softkey
Scan	Edit new, saving, inserting MD files	
Effect	Function is not executed	
	This name cannot be used for user files	
Remedy	Enter a different name	
INCINCUV		

165027 Scan Effect Explanation	Loading from on-line to on-line not possible Loading MD files Function is not executed Only user or STANDARD data can be loaded	OK softkey
-	 BOOT is no valid file name Edit new, editing, saving, inserting MD files Function is not executed The name cannot be used for user files Enter a different name 	OK softkey
Remedy 165029 Scan Effect Explanation Remedy	Enter a different name. Boot files cannot be loaded Loading MD files - Boot files are automatically loaded on NCK reset	OK softkey
165030 Scan Effect	There is no file with power section selection Drive MD/module selection Power section cannot be selected There is no system file Please notify Siemens Service	OK softkey
Note 165031 Scan Effect Explanation	Applies as from SW 4 No communication to the MSD Saving, loading machine data Function is not executed	OK softkey
Remedy Note 165032 Scan Effect Explanation	Repeat operation Applies for SW 3 only MSD has not taken any standard values Drive MD, spindle (MSD): select motor Drive is not parameterized There are no standard data for this motor/PS combination	OK softkey
Remedy 165033 Scan Effect Explanation	Select a different motor or motor from another manufacturer Conversion has not been switched off Loading drive machine data Illegal data in drive The alarm can also occur when drive MD are being transmitted if a boot file already exists.	OK softkey
Remedy Note	Repeat operation, press softkey "General reset" in the initial clear mode and reload the drive data. Applies as from SW 5.4.	

165034	Conversion has not been switched on	OK softkey
Scan	Loading drive machine data	
Effect	Illegal data in drive	
Explanation	-	
Remedy	Repeat operation	
Note	Applies as from SW 5.4.	
165035	MD for motor/p section comb. not preset	OK softkey
Scan	Drive MD, axis (FDD): select motor	-
Effect	Drive is not parameterized	
Explanation	There are no standard data for this motor/PS combination	
Remedy	Select a different motor or motor from another manufacturer	
165036	Not a valid drive number	OK softkey
Scan	Saving and loading MD of one individual drive	,
Effect	Selected function is not executed	
Explanation	An illegal drive number has been entered	
Remedy	Enter a legal drive number	
-		
165037	Boot file drive n. not saved	OK softkey
Scan	Saving BOOT for one or all drives	enteenney
Effect	Current drive status lost after next reset	
Explanation		
Remedy	Save BOOT configuration, NCK reset, repeat operation	
-		
165038	Drive configuration has not been loaded	OK softkev
165038 Scan	Drive configuration has not been loaded	OK softkey
165038 Scan Effect	Drive configuration has not been loaded Loading user drive machine data No connection to drives	OK softkey
Scan Effect	Loading user drive machine data No connection to drives	OK softkey
Scan	Loading user drive machine data	OK softkey
Scan Effect Explanation	Loading user drive machine data No connection to drives The loaded MD file does not contain a configuration	OK softkey
Scan Effect Explanation Remedy	Loading user drive machine data No connection to drives The loaded MD file does not contain a configuration Load file with configuration data	Ţ
Scan Effect Explanation Remedy 165039	Loading user drive machine data No connection to drives The loaded MD file does not contain a configuration Load file with configuration data No communication to the digital drives	OK softkey OK softkey
Scan Effect Explanation Remedy 165039 Scan	Loading user drive machine data No connection to drives The loaded MD file does not contain a configuration Load file with configuration data No communication to the digital drives Saving, loading drive MD	Ţ
Scan Effect Explanation Remedy 165039 Scan Effect	Loading user drive machine data No connection to drives The loaded MD file does not contain a configuration Load file with configuration data No communication to the digital drives Saving, loading drive MD Function is not executed	Ţ
Scan Effect Explanation Remedy 165039 Scan Effect Explanation	Loading user drive machine data No connection to drives The loaded MD file does not contain a configuration Load file with configuration data No communication to the digital drives Saving, loading drive MD Function is not executed The stated configuration is accepted	Ţ
Scan Effect Explanation Remedy 165039 Scan Effect	Loading user drive machine data No connection to drives The loaded MD file does not contain a configuration Load file with configuration data No communication to the digital drives Saving, loading drive MD Function is not executed	Ţ
Scan Effect Explanation Remedy 165039 Scan Effect Explanation Remedy	Loading user drive machine data No connection to drives The loaded MD file does not contain a configuration Load file with configuration data No communication to the digital drives Saving, loading drive MD Function is not executed The stated configuration is accepted Save BOOT configuration, NCK reset, repeat operation	OK softkey
Scan Effect Explanation Remedy 165039 Scan Effect Explanation Remedy 165040	Loading user drive machine data No connection to drives The loaded MD file does not contain a configuration Load file with configuration data No communication to the digital drives Saving, loading drive MD Function is not executed The stated configuration is accepted Save BOOT configuration, NCK reset, repeat operation Only user configuration can be changed	Ţ
Scan Effect Explanation Remedy 165039 Scan Effect Explanation Remedy 165040 Scan	Loading user drive machine data No connection to drives The loaded MD file does not contain a configuration Load file with configuration data No communication to the digital drives Saving, loading drive MD Function is not executed The stated configuration is accepted Save BOOT configuration, NCK reset, repeat operation Only user configuration can be changed Softkey "Configure memory"	OK softkey
Scan Effect Explanation Remedy 165039 Scan Effect Explanation Remedy 165040 Scan Effect	Loading user drive machine data No connection to drives The loaded MD file does not contain a configuration Load file with configuration data No communication to the digital drives Saving, loading drive MD Function is not executed The stated configuration is accepted Save BOOT configuration, NCK reset, repeat operation Only user configuration can be changed Softkey "Configure memory" Function is not performed	OK softkey
Scan Effect Explanation Remedy 165039 Scan Effect Explanation Remedy 165040 Scan Effect Explanation	Loading user drive machine data No connection to drives The loaded MD file does not contain a configuration Load file with configuration data No communication to the digital drives Saving, loading drive MD Function is not executed The stated configuration is accepted Save BOOT configuration, NCK reset, repeat operation Only user configuration can be changed Softkey "Configure memory" Function is not performed Standard or on-line configuration selected accidentally.	OK softkey
Scan Effect Explanation Remedy 165039 Scan Effect Explanation Remedy 165040 Scan Effect	Loading user drive machine data No connection to drives The loaded MD file does not contain a configuration Load file with configuration data No communication to the digital drives Saving, loading drive MD Function is not executed The stated configuration is accepted Save BOOT configuration, NCK reset, repeat operation Only user configuration can be changed Softkey "Configure memory" Function is not performed	OK softkey

165041	Only possible in general reset mode	OK softkey
Scan	Softkey "Configure memory"	
Effect	Function is not performed	
Explanation	To configure memory, the control must be in the general reset mode.	
Remedy	Activate the general reset mode under "Diagnosis/start-up"	
Note	Applies as from SW 4	
165042	Configuration not complete	OK softkey
Scan	Softkey "Configure memory", check DRAM and SRAM configuration	
Effect	Function is not performed	
Explanation	Not all data belonging to the configuration are available	
Remedy	First enter all data	
Note	Applies as from SW 4	
165043	Insufficient memory space	OK softkey
Scan	Softkey "Configure memory", check DRAM and SRAM configuration	,
Effect	Function is not performed	
Explanation		
Remedy	Change the configuration such that the remaining memory is positive	
Note	Applies as from SW 4	
165044	Controller data have not been calculated	OK softkey
Scan	Loading of standard drive machine data and also softkey "Calculate controller data"	
Effect	Invalid data in the drive	
Explanation	-	
Remedy	Repeat action	
Note	Applies as from SW 4	
165045	No power section selected	OK softkey
Scan	Softkey "OK" in the drive machine data/selection module screen	
Effect	Key is ignored	
Explanation	Line with intermediate heading has been selected accidently. These lines serve only for the headi tion list.	ngs in the selec-
Remedy	Select the correct module and press the key again.	
Note	Applies as from SW 4	
165046	No input authorization	OK softkey
Scan	Insert from clipboard, drive selection	-
Effect	Function is not performed	
Explanation	The data block just edited cannot be modified even if password is set (e.g. standard data block)	
Remedy	Select another data block	

1.5.1 Alarm description		
165047	No curve parameterized	OK softkey
Scan	Copy to clipboard and paste from clipboard in the IKA relationships display selected "with" curve.	
Effect	Function is not performed	
Explanation	 The curve number is not parameterized Start or end pointer of the curve is not parameterized The start pointer is greater than the end pointer This information cannot be read (e.g. <on-line>, NCK power-up)</on-line> 	
Remedy	Select "without" curve using the toggle key or press the Abort key and parameterize the curve.	
Note	Applies as from SW 4	
165048	No drift compensation performed for axis	OK softkey
Scan	"Drift compensation" softkey in Service display	
Effect	Function not carried out.	
Explanation	Internal error	
Remedy	None	
Note	Alarm in SW 5 and higher	
165049	Axis not available	OK softkey
Scan	"Drift compensation" softkey in Service display	
Effect	Function not carried out.	
Explanation	The selected axis is not active, e.g. because it has just been set up.	
Remedy	Perform Power on, repeat action.	
Note	Alarm in SW 5 and higher	
165050	Axis to be stopped first	OK softkey
Scan	"Drift compensation" softkey in service display	
Effect	Function not carried out.	
Explanation	Drift compensation only possible in Reset.	
Remedy	Stop program, press Reset, repeat action.	
Note	Alarm in SW 5 and higher	
165051	NQFK data not backed up	OK softkey
Scan	"Save on hard disk" softkey in the File functions menu in the Diagnosis/Start-up/Machine data disp	olay
Effect	The NQFK data have not been saved	
Explanation	System error	
Remedy	Please notify Siemens Service	
Note	Alarm in SW 5 and higher	
165052	NQFK data for axis not saved	OK softkey
Scan	"Save on hard disk" softkey in the File functions menu in the Diagnosis/Start-up/Machine data disp	olay
Effect	The NQFK data for the stated axis have not been saved.	
Explanation	The stated axis may have been incorrectly parameterized.	
Remedy	Check parameterization and repeat procedure.	
Note	Alarm in SW 5 and higher	

165053 Scan Effect Explanation Remedy Note	NQFK data not loaded "Load from hard disk" softkey in the File functions menu in the Diagnosis/Start-up/Machine data d The NQFK data have not been loaded. System error Please notify Siemens service. Alarm in SW 5 and higher	OK softkey ^{isplay}
165054 Scan Effect Explanation Remedy Note	NQFK data for axis not loaded "Load from hard disk" softkey in the File functions menu in the Diagnosis/Start-up/Machine data d The NQFK data of the stated axis have not been loaded. The NQFK ASCII file of the stated axis is defective or not compatible. Delete or correct file, repeat procedure. Alarm in SW 5 and higher	OK softkey ^{isplay}
165055 Scan Effect Explanation Remedy Note	Equivalent circuit data have not been calculated Softkey "Calculate equivalent circuit diagram" Invalid data in drive. – Repeat action Alarm in SW 5 and higher	OK softkey
165056 Scan Effect Explanation Remedy Note	Carry out safety acceptance test Softkey "Accept safe functions" – Without acceptance test, the operator's life and limb are at risk. The acceptance test must be performed in accordance with the valid safety regulations. Applies as from SW 5.4	OK softkey
165057 Scan Effect Explanation Remedy Note	Sisitec data TEA1 axis read error Softkey "Accept safe functions" The function has not been performed. - If necessary, first start up the axis. Applies as from SW 5.4	OK softkey
165058 Scan Effect Explanation Remedy Note	Sisitec data TEA3 drive write error Softkey "Accept safe functions" The function has possibly been performed incompletely, data may be inconsistent. – If necessary, first start up the drive. Applies as from SW 5.4	OK softkey

165059 Scan Effect	Check input new SI password different Softkey "Change password" The password has not been changed	OK softkey
Explanation Remedy Note	The new password must be entered again in the third field to ensure that it has been entered correct Repeat input. Applies as from SW 5.4	ectly.
165060 Scan Effect Explanation Remedy Note	Rated power too small (MD x130 \leq 0) Softkey "Calculate equivalent circuit diagram data (MSD only)" The equivalent circuit diagram data have not been changed. The rated power (in MD 1130 and MD 2130) must not be \leq 0. Correct value, repeat function. Applies as from SW 5.4	OK softkey
165061 Scan Effect Explanation Remedy Note	Rated voltage too small (MD x132 \leq 0) Softkey "Calculate equivalent circuit diagram data (MSD only)" The equivalent circuit diagram data have not been changed. The rated voltage (in MD 1132 and MD 2123) must not be \leq 0. Correct value, repeat function. Applies as from SW 5.4	OK softkey
165062 Scan Effect Explanation Remedy Note	Rated current too small (MD x103 \leq 0) Softkey "Calculate equivalent circuit diagram data (MSD only)" The equivalent circuit diagram data have not been changed. The rated current (in MD 1103 and MD 2103) must not be \leq 0. Correct value, repeat function. Applies as from SW 5.4	OK softkey
165063 Scan Effect Explanation Remedy Note	Cos Phi power factor wrong Softkey "Calculate equivalent circuit diagram data (MSD only)" The equivalent circuit diagram data have not been changed. The Cos Phi power factor (in MD 1129 and MD 2129) must not be ≤ 0 and must not exceed 0.996 Correct value, repeat function. Applies as from SW 5.4	OK softkey
165064 Scan Effect Explanation Remedy Note	Pole pair no. (ratio MD x134/MD x400) illegal Softkey "Calculate equivalent circuit diagram data (MSD only)" The equivalent circuit diagram data have not been changed. The pole pair no. (ratio rated frequency (MD 1134 and MD 2134) /rated speed (MD 1400 and MD 2 Correct value, repeat function. Applies as from SW 5.4	OK softkey

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165065	Result field weakening speed < rated speed	OK softkey
Scan	Softkey "Calculate equivalent circuit diagram data (MSD only)"	
Effect	The equivalent circuit diagram data have not been calculated, the field weakening speed (MD 1142 and 2142) can now be modified manually.	
Explanation	7 The calculated field weakening speed is smaller than the rated speed (MD 1400 and 2400). This WarnNote is displayed if rated voltage plus the voltage drop at the series reactor exceed 400V.	
Remedy	Correct value of "field weakening speed" manually.	
Note	Applies as from SW 5.4	
165066	Current controller gain (MD 1120) not calculable	OK softkey
Scan	Softkey "Calculate controller data (FDD only)"	
Effect	The controller data have been calculated, the machine data concerned has been given a suitable	default value.
Explanation	The calculated current controller gain is < 0.	
Remedy	If necessary, correct value and repeat function.	
Note	Applies as from SW 5.4	
165067	Default value (MD x15) cannot be calculated	OK softkey
Scan	Softkey "Calculate controller data (MSD only)"	
Effect	The controller data have been calculated, the machine data concerned has been given a suitable	default value.
Explanation	The result calculated was a default value < 0 .	
Remedy	If necessary, correct value and repeat function.	
Note	Applies as from SW 5.4	
165068	Magnetizing reactance (MD x14) not allowed	
100000	Magnetizing reactance (MD X14) not anowed	OK softkey
Scan	Softkey "Calculate controller data (MSD only)"	OK softkey
_		-
Scan	Softkey "Calculate controller data (MSD only)"	-
Scan Effect	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable	-
Scan Effect Explanation	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable The value 0 has been entered for the magnetizing reactance (MD1141 and MD 2141).	-
Scan Effect Explanation Remedy	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable The value 0 has been entered for the magnetizing reactance (MD1141 and MD 2141). If necessary, correct value and repeat function.	-
Scan Effect Explanation Remedy	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable The value 0 has been entered for the magnetizing reactance (MD1141 and MD 2141). If necessary, correct value and repeat function.	-
Scan Effect Explanation Remedy Note	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for the magnetizing reactance (MD1141 and MD 2141). If necessary, correct value and repeat function. Applies as from SW 5.4	default value.
Scan Effect Explanation Remedy Note 165069	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for the magnetizing reactance (MD1141 and MD 2141). If necessary, correct value and repeat function. Applies as from SW 5.4 Leakage reactance (MD x139/MD x140) not allowed	default value. OK softkey
Scan Effect Explanation Remedy Note 165069 Scan Effect	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for the magnetizing reactance (MD1141 and MD 2141). If necessary, correct value and repeat function. Applies as from SW 5.4 Leakage reactance (MD x139/MD x140) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of the controller data have been calculated, the machine data concerned has been given a suitable of the controller data have been calculated, the machine data concerned has been given a suitable of the controller data have been calculated, the machine data concerned has been given a suitable of the controller data have been calculated, the machine data concerned has been given a suitable of the controller data have been calculated, the machine data concerned has been given a suitable of the controller data have been calculated, the machine data concerned has been given a suitable of the controller data have been calculated, the machine data concerned has been given a suitable of the controller data have been calculated, the machine data concerned has been given a suitable of the control data have been calculated the machine data concerned has been given a suitable of the control data (MSD only)"	default value. OK softkey
Scan Effect Explanation Remedy Note 165069 Scan Effect Explanation	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for the magnetizing reactance (MD1141 and MD 2141). If necessary, correct value and repeat function. Applies as from SW 5.4 Leakage reactance (MD x139/MD x140) not allowed Softkey "Calculate controller data (MSD only)"	default value. OK softkey
Scan Effect Explanation Remedy Note 165069 Scan Effect	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for the magnetizing reactance (MD1141 and MD 2141). If necessary, correct value and repeat function. Applies as from SW 5.4 Leakage reactance (MD x139/MD x140) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for one of the leakage reactances (MD 1139, 1140, 2139, 2140).	default value. OK softkey
Scan Effect Explanation Remedy Note 165069 Scan Effect Explanation Remedy	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for the magnetizing reactance (MD1141 and MD 2141). If necessary, correct value and repeat function. Applies as from SW 5.4 Leakage reactance (MD x139/MD x140) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for one of the leakage reactances (MD 1139, 1140, 2139, 2140). If necessary, correct value and repeat function.	default value. OK softkey
Scan Effect Explanation Remedy Note 165069 Scan Effect Explanation Remedy Note	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for the magnetizing reactance (MD1141 and MD 2141). If necessary, correct value and repeat function. Applies as from SW 5.4 Leakage reactance (MD x139/MD x140) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for one of the leakage reactances (MD 1139, 1140, 2139, 2140). If necessary, correct value and repeat function. Applies as from SW 5.4	default value. OK softkey default value.
Scan Effect Explanation Remedy Note 165069 Scan Effect Explanation Remedy	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for the magnetizing reactance (MD1141 and MD 2141). If necessary, correct value and repeat function. Applies as from SW 5.4 Leakage reactance (MD x139/MD x140) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for one of the leakage reactances (MD 1139, 1140, 2139, 2140). If necessary, correct value and repeat function. Applies as from SW 5.4 Rated frequency (MD x134) not allowed	default value. OK softkey
Scan Effect Explanation Remedy Note 165069 Scan Effect Explanation Remedy Note 165070 Scan	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for the magnetizing reactance (MD1141 and MD 2141). If necessary, correct value and repeat function. Applies as from SW 5.4 Leakage reactance (MD x139/MD x140) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for one of the leakage reactances (MD 1139, 1140, 2139, 2140). If necessary, correct value and repeat function. Applies as from SW 5.4 Rated frequency (MD x134) not allowed Softkey "Calculate controller data (MSD only)"	default value. OK softkey default value. OK softkey
Scan Effect Explanation Remedy Note 165069 Scan Effect Explanation Remedy Note 165070 Scan Effect	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for the magnetizing reactance (MD1141 and MD 2141). If necessary, correct value and repeat function. Applies as from SW 5.4 Leakage reactance (MD x139/MD x140) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for one of the leakage reactances (MD 1139, 1140, 2139, 2140). If necessary, correct value and repeat function. Applies as from SW 5.4 Rated frequency (MD x134) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of Softkey "Calculate controller data (MSD only)"	default value. OK softkey default value. OK softkey
Scan Effect Explanation Remedy Note 165069 Scan Effect Explanation Remedy Note 165070 Scan Effect Explanation	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for the magnetizing reactance (MD1141 and MD 2141). If necessary, correct value and repeat function. Applies as from SW 5.4 Leakage reactance (MD x139/MD x140) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for one of the leakage reactances (MD 1139, 1140, 2139, 2140). If necessary, correct value and repeat function. Applies as from SW 5.4 Rated frequency (MD x134) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of the value 0 has been entered for one of the leakage reactances (MD 1139, 1140, 2139, 2140). If necessary, correct value and repeat function. Applies as from SW 5.4 Rated frequency (MD x134) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for the rated frequency (MD 1134 and MD 2134).	default value. OK softkey default value. OK softkey
Scan Effect Explanation Remedy Note 165069 Scan Effect Explanation Remedy Note 165070 Scan Effect Explanation Refect Explanation Remedy	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable The value 0 has been entered for the magnetizing reactance (MD1141 and MD 2141). If necessary, correct value and repeat function. Applies as from SW 5.4 Leakage reactance (MD x139/MD x140) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable The value 0 has been entered for one of the leakage reactances (MD 1139, 1140, 2139, 2140). If necessary, correct value and repeat function. Applies as from SW 5.4 Rated frequency (MD x134) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable The value 0 has been entered for only the machine data concerned has been given a suitable of the value 0 has been entered for only (MD x134) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for the rated frequency (MD 1134 and MD 2134). If necessary, correct value and repeat function.	default value. OK softkey default value. OK softkey
Scan Effect Explanation Remedy Note 165069 Scan Effect Explanation Remedy Note 165070 Scan Effect Explanation	Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for the magnetizing reactance (MD1141 and MD 2141). If necessary, correct value and repeat function. Applies as from SW 5.4 Leakage reactance (MD x139/MD x140) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for one of the leakage reactances (MD 1139, 1140, 2139, 2140). If necessary, correct value and repeat function. Applies as from SW 5.4 Rated frequency (MD x134) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of the value 0 has been entered for one of the leakage reactances (MD 1139, 1140, 2139, 2140). If necessary, correct value and repeat function. Applies as from SW 5.4 Rated frequency (MD x134) not allowed Softkey "Calculate controller data (MSD only)" The controller data have been calculated, the machine data concerned has been given a suitable of The value 0 has been entered for the rated frequency (MD 1134 and MD 2134).	default value. OK softkey default value. OK softkey

165071	Rotor resistance (MD x138) illegal	OK softkey
Scan	Softkey "Calculate controller data (MSD only)"	
Effect	The controller data have been calculated, the machine data concerned has been given a suitable of	default value.
Explanation	The value 0 has been entered for the rotor resistance (MD 1138 and MD 2138).	
Remedy	If necessary, correct value and repeat function.	
Note	Applies as from SW 5.4	
165072	Moment of inertia (MD x117) illegal	OK softkev

103072	Moment of mertia (MD X117) mega	ON SUIL
Scan	Softkey "Calculate controller data"	
Effect	The controller data have been calculated, the machine data concerned has been given a suitable de	efault value.
Explanation	The value 0 has been entered for the moment of inertia (MD 1117 and MD 2117).	
Remedy	If necessary, correct value and repeat function.	
Note	Applies as from SW 5.4	

165073	Maximum speed smaller than field weakening speed	OK softkey
Scan	Softkey "Calculate controller data (MSD only)"	
Effect	The controller data have been calculated, the machine data concerned has been given a suitable of	lefault value.
Explanation	<i>n</i> The maximum speed (MD 1146 and MD 2146) is smaller than the field weakening speed (MD 1142 and MD 2142).	
Remedy	If necessary, correct value and repeat function.	
Noto	Applies as from SIME 4	

Note	Applies as from SW 5.4

165074	Field weakening speed (MD x142) not allowed
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Scan	Softkey "Calculate controller data (MSD only	v)"

Effect The controller data have been calculated, the machine data concerned has been given a suitable default value. Explanation The value 0 has been entered for the field weakening speed (MD 1142 and MD 2142). Remedy If necessary, correct value and repeat function. Note Applies as from SW 5.4

165075 No-load current (MD 1118) not allowed

165075	No-load current (MD 1118) not allowed	OK softkey
Scan	Softkey "Calculate controller data (FDD only)"	
Effect	The controller data have been calculated, the machine data concerned has been given a suitable default value.	
Explanation	The value 0 has been entered for the no-load current.	
Remedy	If necessary, correct value and repeat function.	
Note	Applies as from SW 5.4	

165076	Ratio maximum current / no-load current illegal	OK softkey
Scan	Softkey "Calculate controller data (FDD only)"	
Effect	The controller data have been calculated, the machine data concerned has been given a suitable of	default value.
Explanation	The ratio maximum current (MD 1104) no-load current (MD 1118) exceeds 900.	
Remedy	If necessary, correct value and repeat function.	
Note	Applies as from SW 5.4	

04/96

OK softkey

OK softkey

01/99

165077	Pole pair no. (ratio MD x130/MD x400) illegal	OK softkey
Scan	Softkey "Calculate controller data (MSD only)"	
Effect	The controller data have been calculated, the machine data concerned has been given a suitable of	default value.
Explanation	The pole pair no. (ratio rated frequency (MD 1134 and MD 2134) / rated speed (MD 1400 and MD	2400) is illegal.
Remedy	If necessary, correct value and repeat function.	
Note	Applies as from SW 5.4	

MIC %1 165078

Scan	In the machine data dialog (MDD) when softkey "Start conversion" is pressed
Effect	The target data record is not created.
Explanation	An error (e.g. syntax error) has occurred in the configuration file that belongs to the metric/inch conversion. The error message contains a line number and a description of the cause of the error or only a general error text that cannot be assigned to a specific line number.
Remedy	Eliminate the error in the configuration file (see conversion data in file CONFIG).
Note	Alarm from SW 6.3

300000 System error

Scan Cyclic after control startup

Machining stops, interlocking of NC Start and Mode Group Ready

Explanation

Effect

Additional information 1 (error no.)	Additional information 2	Explanation	Remedy
0x0001	Task ID	Opcode received unknown	Contact service
0x0002	Task ID	Message received unknown	Contact service
0x0003	Task ID	Faulty buffer type	Contact service
0x0004	Task ID	No queues available	Contact service
0x0011	Protocol ID	Unknown protocol ID	Contact service
0x0012	Message frame type	Unknown protocol message type	Contact service
0x0013	Service ID	Unknown protocol service ID	Contact service
0x0014	Variable length	Unknown protocol variable length	Contact service
0x0022	Task ID	Incorrect NC/servo/drive address	Contact service
0x0023	Pointer (set/actual)	Put_message pointer error	Contact service
0x0102	Version (set/actual)	Version error of boot files	Create boot files again
0x0103	Length (set/actual)	Incorrect length of boot files	Create boot files again
0x0301	Status	PI service initialization error	Contact service
0x0302	Status	PI service execution error	Contact service
0x0303	Status	PI service message error	Contact service
0x0304	Status	PI service abort error	Contact service
0x0401	Drive no.	Command with illegal drive no.	Contact service
0x0402	Message frame type	Command with illegal header (transmission)	Contact service
0x0403	Message frame type	Command with illegal header (reception)	Contact service
0x0404	-	Management overflow on transmitting or- ders	Contact service
0x0405	-	Management overflow on transmitting of acknowledgements	Contact service
0x0406	_	Management overflow on receiving orders	Contact service
0x0407	-	Management overflow on receiving acknowledgements	Contact service

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POWER ON

1 Alarms 1.5.1 Alarm description

0x0408	Status	Queue transmission error	Contact service
0x0411	-	Checksum error on receiving	Replace hardware
0x0412	Message length	Message length exceeded on receiving	Replace hardware
0x0413	Task ID	Timeout on transmitting	Replace hardware Increase cycle times
0x0414	-	Timeout + message unknown on transmit- ting	Replace hardware, Increase cycle times
0x0415	Task ID	Timeout on receiving	Replace hardware, Increase cycle times
0x0416	-	Timeout +message unknown on receiving	Replace hardware, Increase cycle times
0x0417	Task ID	Abort on transmitting	Replace hardware
0x0418	Task ID	Abort on receiving	Replace hardware
0x0421	Protocol ID	Error in data transmission (unknown protocol ID)	Contact service
0x0422	Message type	Error in data transmission (unknown message type)	Contact service
0x0423	Service ID	Error in data transmission (unknown service ID)	Contact service
0x0424	Variable length	Error in data transmission (unknown variable length)	Contact service
0x0431	Drive type 1= FDD 2 = MSD	Timeout on firmware booting	Replace hardware (control module 611D, drive bus or DCM), increase cycle times
0x0432	Filling level (time of 611D error)	Abort of firmware booting due to 611D system error	Replace hardware (control module 611D, drive bus or DCM)
0x0433	File ID	An error occurred while reloading the drive software from the MMC. This can happen if NCK Power On or PLC restart has been given during drive booting.	Switch control off/on. If the error then still occurs, the 611D firmware must be re-installed.
0x0434	File ID	Error in boot sequence	Re–install 611D firmware, contact Service
0x0435	File ID	Error in boot file	Re–install 611D firmware, contact Service
0x0501	Status	No ADS block available	Contact service
0x0502	Status	No ADS send possible	Contact service
0x0510	Order no.	Acknowledgement cannot be allocated	Contact service
0x0520	Task ID	Message to illegal software component	Contact service
0x0601		Error on drive bus formation or data trans- mission (write FIFO not empty)	Replace hardware: NC module, control module 611D, drive bus cable
0x0602		Reserved	
0x0603		Error on bus formation: timeout or CRC er- ror during PCU initialization	Replace hardware: control module 611D, NC module
0x0604		Error on bus formation: timeout or CRC er- ror on timer initialization in PCU	Replace hardware: control module 611D, NC module
0x0605		Reserved	
0x0606		Sign–of–life error 611D	Ring programming with GI or eliminate gantry axes, replace 611D control module, wrong default for speed controller clock pulse in stan- dard control system with SW ver- sions below SW 5
00007		Involid DCM interrupt (no timeout as CDC)	Deplace NC hardware

Invalid DCM interrupt (no timeout, no CRC)

Reserved

Reserved

Replace NC hardware

0x0607

0x0608

0x0610

0x0611	Digital drives configured although there is no DCM (drive bus interface) on the NC hardware	Replace NC hardware
0x0612	Illegal internal ramp-up status	Replace NC hardware Reinstall NC system software Contact service
0x0613	invalid smtk_task opcode	Replace NC hardware Reinstall NC system software Contact service
0x0614	invalid smtk_status	Replace NC hardware Reinstall NC system software Contact service
0x0615	invalid status var_meldung()	Replace NC hardware Reinstall NC system software Contact service
0x0616	invalid status send_msg() – no message buffer free – error with smtk_send()	Replace NC hardware Reinstall NC system software Contact service
0x0617	invalid status mk_tea30_check() (error during interpretation of drive configu- ration)	Delete drive configuration Reinstall NC system software Contact service
0x0618	invalid status mk_bus_init()	Replace hardware: control module 611D, NC module Contact service
0x0619	Invalid status zustand_antrieb() Default status–0	Replace hardware: control module 611D, NC module
0x0620	Invalid status zustand_antrieb() Acknowledgement status–0	Replace hardware: control module 611D, NC module
0x0621	Invalid status zustand_antrieb() Default status–1	Replace hardware: control module 611D, NC module
0x0622	Invalid status zustand_antrieb() Acknowledgement status–1	Replace hardware: control module 611D, NC module
0x0623	Invalid status zustand_antrieb() Default status–2	Replace hardware: control module 611D, NC module
0x0624	Invalid status zustand_antrieb() Acknowledgement status-2	Replace hardware: control module 611D, NC module
0x0625	Invalid status zustand_antrieb() Default status–3	Replace hardware: control module 611D, NC module
0x0626	Invalid status zustand_antrieb() Acknowledgement status–3	Replace hardware: control module 611D, NC module
0x0627	Invalid status zustand_antrieb() Default status–4	Replace hardware: control module 611D, NC module
0x0628	Invalid status zustand_antrieb() Acknowledgement status-4	Replace hardware: control module 611D, NC module
0x0629	Invalid status zustand_antrieb() Acknowledgement status–5	Replace hardware: control module 611D, NC module
0x0630	Invalid status anstoss_hintergrund()	Replace hardware: control module 611D, NC module
0x0631	Invalid status lese_alarm_status()	Replace hardware: control module 611D, NC module
0x0632	Invalid status with drive alarm processing (al_status)	Replace hardware: control module 611D, NC module

0x0633

0x0634

0x0635

0x0636

0x0637

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Invalid init-task event Replace NC module Reinstall NC system software Error in drive configuration Delete drive configuration Reinstall NC system software Invalid drive type (gsi_anlaufart) Replace hardware: control module 611D, NC module Invalid smtk_event Replace hardware: control module 611D, NC module Illegal transmission parameter in taster_übernahme() Replace hardware: control module 611D, NC module Immout during drive ramp-up - status 0 is net acknowledged by the drive net acknowledged by the drive Replace hardware: control module 611D, NC module Illegal transmission parameter in metcurg_servo_0xx() Replace hardware: control module 611D, NC module Illegal status test formation of drive bus (gsi_zust_businit) Replace hardware: control module 611D, NC module Faulty length of boot block 1 Reinstall drive firmware check hard disk replace NC module Faulty length of boot block 2 Reinstall drive firmware check hard disk replace NC module Faulty transmission parameter for twe_611D_urladen() Replace hardware: control module 611D, NC module Function no. Faulty transmission parameter for twe_611D_urladen() Replace hardware; contact service Function no. Timeout during transmission parameter for twe_611D_urladen() Replace hardware; contact service Function no. Timeout			
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Applies as from SW 3.

300001	Configuration error drive number	POWER ON
Scan	When 611D drive link is being established	
Effect	611D link is not established	
Explanation	Illegal drive number entered	
Remedy	Enter a drive number between 1 and 15	
Note	Applies as from SW 3	
300002	Configuration error module type	POWER ON
Scan	Establishing the 611D drive link	
Effect	611D link not established	
	The configured module type does not correspond to the actual module type	
Remedy	Correct 611D module type (1/2 axis module)	
Note	Applies as from SW 3	
300003	Configuration error bus configuration	POWER ON
Scan	Establishing the 611D drive link	
Effect	611D link not established	
Explanation	The configured bus configuration does not correspond to the actual bus configuration (more actu configured)	al drives as
Remedy	Correct 611D configuration; check hardware	
Note	Applies as from SW 3	
300004	Configuration error meas. cct. components	POWER ON
Scan	Establishing the 611D drive link	
Effect	611D link not established	
Explanation	Measuring circuit modules wrongly assigned (submodules missing or incorrect submodule type)	or faulty
Remedy	Replace drive module	
Note	Applies as from SW 3	
300005	Configuration error drive type	POWER ON
Scan	Extablishing the 611D drive link	
Effect	611D link not established	
Explanation	The configured drive type (FDD/MSD) does not correspond to the actual drive type	
Remedy	Correct configuration or replace modules	
Note	Applies as from SW 3	
300006	CRC error drive link	POWER ON
Scan	Cyclic	
Effect	Machining stops, interlocking of NC START and Mode Group Ready	
Explanation	Interference on 611D drive link	
Remedy	Check control cabinet wiring; consult EMC regulations	
Note	Applies as from SW 3	
	As from SW 6, the alarm 300006 "CRC error drive link" is displayed only by the drive on which re- not be executed. In addition, both error registers from the DCM are displayed for further informati the information from the error registers is not sufficient to determine a drive number, the alarm is drive available.	on on the alarm. If

POWER ON

POWER ON

Reset key

300007 Number of defective axes, spindles, drives POWER ON

Scan		Control startup
Effect		Interlocking of NC START and Mode Group Ready
Explar	nation	The NC axes, NC spindles and digital drives sum without setpoint assignment is larger than 15
Reme	dy	Check setpoint assignment on digital drives and complete and match NC axis and spindle configuration if necessary
Note		Applies as from SW 3

300008 FDD software not loaded

Scan	Control power-up – establishment of drive link
Effect	Power-up aborts
Explanation	Drive configuration and NCK memory configuration are inconsistent.
Remedy	In the NCK memory configuration, select the "FDD yes" setting or remove FDD from drive configuration. Check the system software.
Note	Applies as from SW 4

300009 MSD software not loaded

Scan	Control power-up – establishment of drive link
Effect	Power-up aborts
Explanation	Drive configuration and NCK memory configuration are inconsistent.
Remedy	In the NCK memory configuration, select the "MSD yes" setting or remove MSD from drive configuration. Check the system software.
Note	Applies as from SW 4

300100 Drive link off

Scan	Cyclic
Effect	Interlocking of NC START and Mode Group Ready
Explanation	Alarm appears when power supply to electronics of 611D in operation is switched off
Remedy	Return power supply to drive electronics and press reset key
	If the alarm is triggered while the boot file is being transferred to the drive, the only means of acknowledgement is NCK POWER ON.
Note	Applies as from SW 3
	As from SW 6, the alarm 300100 "Drive link off" is displayed only by the drive on which read access could not be executed. In addition, both error registers from the DCM are displayed for further information on the alarm. If the information from the error registers is not sufficient to determine a drive number, the alarm is output for the first drive available.

300300 **Drive link off Reset key** Scan Startup Effect Interlocking of NC start and Mode Group Ready Explanation Alarm appears if there is no supply to the electronics for the 611D currently ramping up Remedy Return power supply to drive electronics Note Applies as from SW 3; as from SW 6, the two error registers are displayed for further information on the alarm. 300301 "Drive software" being loaded Message Scan When starting up the control or after switching on the drives. Effect None Explanation The message "Drive software being loaded" is displayed as long as the software of the drives is being loaded. Remedy The message is automatically cleared after loading of the drive software. If the alarm is triggered while the boot file is being transferred to the drive, the only means of acknowledgement is NCK POWER ON.

Note Applies as from SW 6

POWER ON

300500 System error drive

Scan Effect

a) Error occurs during the ramp-up phase

- Ramp-up phase is stopped
- Pulse or servo disable

Cyclic after control power-up

• SIMODRIVE_READY and DRIVE_READY are cancelled

Explanation

Error No. F	Additional information (xx = for diagno- stic purposes)	Explanation	Remedy	Relevant for
F001 (only for drive SW 1.x). For drive soft- ware > SW 2.x, see F034 or F035.	Incorrect address / xx	In the program memory test, it was found during power-up that the writ- ten bit pattern could not be read back. Cause: Hardware error on the servo control module.	Replace servo control module.	FDD
F002	Incorrect address / xx	In the data memory test, it was found during power-up that the writ- ten bit pattern could not be read back. Cause: Hardware error on the servo control module.	Replace servo control module.	FDD / MSD
F007	xx / xx	In the clock pulse synchronization between NC and drive, an illegal state has been read from the hard- ware. Synchronization could not be performed.	Replace servo control module.	FDD / MSD
F01B	xx / Axis No. xx = 0: Error	 A current of 0 is expected dur- ing power-up of the current ac- tual value measurement and during cyclic operation on a pulse disable, since the system assures that no current can flow. It is possible that the hardware for the current actual value measurement is defec- tive. 	Replace the control module. Check the connections. Connect the power section	FDD / MSD

Note

In the event of a fault, record additional information and inform hotline.

Error No. F	Additional information (xx = for diagno- stic purposes)	Explanation	Remedy	Relevant for
	xx = 1: Power section not connected	 A current of 0 is expected dur- ing power-up of the current ac- tual value measurement and during cyclic operation on a pulse disable. If a 1-axis power section is addressed via the module selection (software configuration of the power sec- tion) as a 2-axis power sec- tion, the current actual value measurement outputs this sys- tem error, since a current > 0 is measured (NB: the software configuration and the installed hardware (power section and/or control module) do not match). 	 Change the software con figuration of the power section (2-axis power section), or Deactivate the 2nd axis, or Install the 2-axis power section 	
F020	xx / xx	On a single-axis module, an attempt is made by the NC to activate the second axis. Possibly faults in com- munication via the drive bus or servo control module defective.	Replace servo control module. Check plug-on connections, take measures to eliminate noise (scree- ning, check ground connections).	FDD / MSD
F021	xx / xx	On a single-axis module, an attempt is made by the NC to activate two axes. Possibly faults in communica- tion via the drive bus or servo con- trol module defective.	Replace servo control module. Check plug-on connections, take measures to eliminate noise (scree- ning, check ground connections).	FDD / MSD
F022	xx / xx	In at least one axis of the drive mo- dule, the motor measuring system is not implemented or it is defective. Since the components used in the measuring systems are detected by the NC and this information is pas- sed on to the drive, faults in com- munication by the drive bus could be the cause.	Replace servo control module. Check plug-on connections, take measures to eliminate noise (scree- ning, check ground connections).	FDD / MSD

1 Alarms

1.5.1 Alarm description

Error No. F	Additional information (xx = for diagno- stic purposes)	Explanation	Remedy	Relevant for
F023	xx / Axis No. Read K1C regis- ter of the rele- vant PCU ASIC NC drive number	The motor measuring system has a motor encoder with voltage output. This calls for an IPU submodule with voltage input. A submodule other than that expected has been detected.	Replace servo control module. Check plug-on connections, take measures to eliminate noise (scree- ning, check ground connections).	FDD / MSD
F024	xx / xx	In executing the software, an illegal internal axis number has been found. Possible causes: Defective servo control module, electroma- gnetic compatibility faults.	Replace servo control module. Take measures to eliminate noise (scree- ning, check ground connections).	FDD / MSD
F025	xx / xx	In executing the software, an illegal internal physical axis number has been found. Possible causes: De- fective servo control module, elec- tromagnetic compatibility faults.	Replace servo control module. Take measures to eliminate noise (scree- ning, check ground connections).	FDD / MSD
F026	xx / Axis No.	The NC attempts to log on an FDD module as MSD. There are possibly faults in the communication via the drive bus or servo control module is defective.	Replace servo control module. Check plug-on connections, take measures to eliminate noise (scree- ning, check ground connections).	FDD
F027	xx / Axis No.	The NC attempts to log on an MSD module as FDD. There are possibly faults in the communication via the drive bus or servo control module is defective.	Replace servo control module. Check plug-on connections, take measures to eliminate noise (scree- ning, check ground connections).	MSD
F028	xx / Axis No. Read K1C regis- ter of the rele- vant PCU ASIC NC drive number	For the direct measuring system, only certain submodules are allo- wed. A submodule has been detec- ted that is not allowed.	Replace servo control module. Check plug-on connections, take measures to eliminate noise (scree- ning, check ground connections).	FDD / MSD
F031	Error code / Axis No. 0x40; illegal PDU length 0x41; axes do not have the same PDU length 0x42; PDU length not a word multiple 0x43; axes do not have the same NC type	The NC has not transferred permis- sible corner data to the drive for communication via the drive bus. This is presumably caused by faults on the drive bus or a defective servo control module.	Replace servo control module. Check plug-on connections, take measures to eliminate noise (scree- ning, check ground connections).	FDD / MSD
F033	Error code / xx 0x51; wrong data format in element list 0x52; wrong conversion group specified in Refresh	The drive software is no longer con- sistent. This is presumably caused by a hardware fault on the servo control module.	Reload drive software Replace servo control module.	FDD / MSD
F034 F035 Error numbers nave different oad sequences	Error code / in- correct address 0 or incorrect address 0x60; incorrect response of SERVO on STF handshake 0x61; error dur- ing RAM check 0x62; transport checksum does not correspond to that of SERVO	Errors have been found on loading the drive software. This is caused either by errors in transmission on the drive bus or a defective servo control module.	Check drive bus cable and connec- tors, take measures to eliminate noise (screening, check ground connections), replace servo control module.	FDD / MSD

Effect b) In cyclic mode

- For MSD:
- Pulse suppression, motor runs down
- SIMODRIVE_READY and DRIVE_READY are cancelled
- Power On fault
- Pulse and controller disable corresponds to STOP A with SINUMERIK Safety Integrated.
- For FDD:
- Controllers are disabled. Motor is braked.
- SIMODRIVE_READY and DRIVE_READY are cancelled
- Power On fault
- Regenerative stop (corresponds to STOP B) with SINUMERIK Safety Integrated.

Response via MD 1612.0, can be configured as from SW 4

Explanation

Error No. F	Additional information (xx = for diagno- stic purposes)	Explanation	Remedy	Relevant for
F003	Time slice / xx 20=current con- troller cycle (MD 1000) 10=speed con- troller cycle (MD 1001) 8=position con- troller cycle (NC MD) 4=1 ms (perma- nent) 2=4 ms (perma- nent) 1=monitoring cycle (MD 1102) A0=start-up syn- chronization B0=background computing time 40=SI monitoring cycle (MD 1300)	The computation time of the drive processor is no longer sufficient for the selected functions in the given clock pulse times. This error nor- mally occurs only in conjunction with start-up functions (FFT measu- rement, step response). SINUMERIK Safety Integrated: Monitoring cycle too small.	During start-up with FFT or measu- rement of the step response – Switch off emergency retraction – Switch off feedforward control (MD 1004.0) – Reduce number of DAC output channels (max. 1 channel) – Switch off variable signalling function (MD1620.0) – Switch off encoder phase error compensation (MD1011.1) – Select larger position controller cycle for the NC. – Increase the corresponding cycle or the subordinate cycle (e.g. current, speed or position control cycle) or deselect functions which are not required.	FDD / MSD
F004	xx / xx	With controller enable, the NC must update the sign-of-life in each posi- tion controller cycle. If an error oc- curs, there has been no sign-of-life for at least two consecutive position controller cycles. Causes: NC fai- lure, communication failure via the drive bus. Hardware fault on the drive module or HW error on NC CPU if error occurs sporadically at intervals of several hours. A further reason: ring programming with GI or gantry axes.	Check plug-on connections, take measures to eliminate noise (scree- ning, check ground connections). Replace NC hardware, replace servo control module.	FDD / MSD
F005	xx / xx 1A: SZ <> 1 for IZ=0 2A: SZ <> 1, 2, 3, 4, 5 2B: SZ IZ <> 0, 1 2C: SZ=3 for PO parameterization error 3A: SZ <> 1, 2, 3, 4, 5 3B: SZ IZ <> 0, 1	Ramping up of the drive modules is broken down into 5 states (steps). The states are provided in se- quence by the NC and acknowled- ged by the drive. If an error occurs, an invalid setpoint state has been detected in the drive. Causes: Faults in communication via the drive bus. Hardware fault on the drive module, hardware fault on the NC.	Check plug-on connections, take measures to eliminate noise (scree- ning, check ground connections). Replace NC hardware, replace servo control module.	FDD / MSD
F006	xx / xx	The endless loop for processing communication has been exited. Presumably caused by a hardware fault on the servo control module.	Replace servo control module.	FDD / MSD

1 Alarms

Error No. F	Additional information (xx = for diagno- stic purposes)	Explanation	Remedy	Relevant for
F010	x / xx x = 1: HW undeflow 2: HW overflow 3: SW underflow 4: SW overflow	The boundaries of the processor-in- ternal hardware stack or of the soft- ware-stack in the data memory have been violated.	Reload drive software. Replace servo control module.	FDD / MSD
F011	xx / xx	The watchdog timer on the servo control module has expired. Caused by a hardware fault in the time base on the servo control module.	Replace servo control module.	FDD / MSD
F012	xx / xx	The NC basic clock pulse generated on the NC and transferred via the drive bus cable to the drive has fai- led. Possible causes: NCK Reset, EMC faults, hardware fault NC, ca- ble break drive bus, hardware fault servo control module.	Check drive bus cable and plug-on connectors, take measures to elimi- nate noise (screening, check ground connections), replace NC hardware, replace servo control mo- dule.	FDD / MSD
F013	xx / xx	The NC basic clock pulse generated on the NC and transmitted via the drive bus cable to the drive did not supply a pulse that fits in the clock pulse grid. Possible causes: EMC faults drive bus, hardware fault NC, hardware fault servo control mo- dule.	Check drive bus cable and plug-on connectors, take measures to elimi- nate noise (screening, check ground connections), replace NC hardware, replace servo control mo- dule.	FDD / MSD
F014	Incorrect address / xx	The processor has detected an ille- gal command in the program me- mory.	Replace servo control module.	FDD / MSD
F015	xx / xx As from version 4.0: start address of the incorrect code data area As from version 4.0: segment of the incorrect code data area, with: 0: P memory 1: X memory 2: Y memory	In the continuous checking of the checksum in the program memory, a difference has been found between the set and actual checksums. Pre- sumably caused by a hardware fault on the servo control module.	Replace servo control module.	FDD / MSD
F016	xx / xx	An illegal interrupt of the processor has occurred.	Check drive bus cable and connec- tor. Replace servo control module.	FDD / MSD
F017	xx / xx	An illegal interrupt of the processor has occurred.	Check drive bus cable and connec- tor. Replace servo control module.	FDD / MSD
F018	xx / xx	An illegal interrupt of the processor has occurred.	Check drive bus cable and connec- tor. Replace servo control module.	FDD / MSD
F019	xx / xx	An illegal interrupt of the processor has occurred.	Check drive bus cable and connec- tor. Replace servo control module.	FDD / MSD

Error No. F	Additional information (xx = for diagno- stic purposes)	Explanation	Remedy	Relevant for
F030	Error code / Axis No. 0x01; non-sup- ported ROSCTR 0x02; illegal ROSCTR 0x03; job man- agement "defec- tive" 0x04; wrong PDUREF for ac- knowledgement 0x05; acknowl- edgement illegal at that time 0x06; acknowl- edgement is not supported 0x07; illegal PROTID 0x08; illegal PERLG (odd) 0x09; buffer man- agement "defec- tive" 0x0A; illegal PI code (internal) 0x08; internal status of PI re- start illegal 0x0C; status pro- cessor in WRITE- DATA "defective" 0x0D; illegal transmission pa- rameter for RE- FRESH_PI ZUST NC drive number	Either irrecoverable errors have been found in the communication via the drive bus, or the drive soft- ware is no longer consistent. Cause is either a defective drive bus inter- face or a hardware fault on the servo control group.	Check drive bus cable and plug-on connectors, take measures to elimi- nate noise (screening, check ground connections), replace servo control module.	FDD / MSD
F032	Error code / Axis No. 0x20; job man- agement "defec- tive" 0x21; illegal sta- tus in SET_TRANSPO 0x22; checksum test incorrect more than 3 times 0x23; receive PDU too long 0x24; status 6XX abort illegal NC drive number	Either irrecoverable errors have been found in the communication via the drive bus, or the drive soft- ware is no longer consistent. Cause is either a defective drive bus inter- face or a hardware fault on the servo control group.	Check drive bus cable and plug-on connectors, take measures to elimi- nate noise (screening, check ground connections), replace servo control module.	FDD / MSD
F040	xx / xx	An illegal number of current setpoint filters (>4) has been entered.	Correct number of current setpoint filters MD1200.	FDD / MSD
F041	xx / xx	An illegal number of speed setpoint filters (>2) has been entered.	Correct number of speed setpoint filters MD1500.	FDD / MSD

1 Alarms 1.5.1 Alarm description

Error No. F	Additional information (xx = for diagno- stic purposes)	Explanation	Remedy	Relevant for
F044 (drive SW 2.5 and higher)	xx /axis no.	The rotor position synchroniza- tion is faulty. The difference between the first part of rotor position synchronization (coarse synchronization) and the second part (fine synchro- nization to the active encoder zero mark) exceeds45°electri- cal. A too large difference may be caused by the following: incorrect encoder adjustment EMC problem on zero mark signal too high voltage level of CD track	Check encoder adjustment and EMC measures new sequence check mode replacee motor	FDD
F045	Error code / Axis No.	Either an encoder with distance-co- ded reference marks has been ent- ered by the NC or a BERO switch in the register \$1D of the motor mea- suring system of the PCU ASIC. This is not allowed during fine syn- chronization which is activated by powering up, by zero monitoring er- ror or by deselecting the parking axis.	After powering up, in the event of zero monitoring errors or after dese- lection of the parking axis, the NC/ PLC must not enter encoders with distance-coded reference marks or a BERO switch into the register \$1D of the motor measuring system of the PCU ASIC.	FDD / MSD
F046	xx / xx	As from drive software SW 4.02, startup of the drive is only possible with the drive software loaded	Re-load drive software	FDD/MSD

Note Applies as from SW 3

300501 **Current monitoring** Scan Cyclically after the control is switched on Pulse reset, motor coasts down SIMODRIVE READY and DRIVE_READY are reset. Effect Power On error. The smoothed current amount (smoothing time: MD 1254) is greater than or equal to a current threshold. A serious error has occurred in the current actual value acquisition. With active rotor position identification (FDD only), the permissible current threshold has been exceeded. Explanation Up to SW 2.6 (611-D): only MSD; additionally to alarms 300502 / 300503 Current threshold = 1,2 * max. permissible power section current (MD1107) With SW 2.6 and higher: FDD and MSD; replacing alarms 300502 / 300503Current threshold = 1,2 * 1,05 * max. permissible power section current (MD1107) Check maximum power section current MD1107; replace 611D hardware if necessary Remedy Note Applies with SW 3 and higher 300502 Meas. circuit error phase current R POWER ON Scan Cyclic after control power up Effect Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. Power On error Explanation Phase current R is greater than or equal to 1.05 times the value of the maximum permissible power section current MD 1107. Serious error has occurred in the actual current value circuit. Check maximum power section current MD1107 Defective actual current value circuit ٠ Remedy Check maximum power section current MD1107; replace 611D hardware if necessary Note Applies up to SW 4 (611-D: up to SW 2.6)

POWER ON

300503	Meas. circuit error phase current S	POWER ON
Scan	Cyclic after control power up	
Effect	 Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. Power On error 	
Explanation	 Phase current S is greater than or equal to 1.05 times the value of the maximum permissible pow MD 1107. Serious error has occurred in the actual current value circuit. Check maximum power section current MD1107 Defective actual current value circuit 	ver section current
Remedy	Check maximum power section current MD1107; replace 611D hardware if necessary	
Note	Applies up to SW 4 (611–D: up to SW 2.6)	
300504	Meas. circuit error motor (inc.)	POWER ON
Scan	Cyclic after control power up	
Effect	 Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. Power On error 	
Explanation	 Encoder faulty Motor encoder not connected Motor encoder cable faulty Module faulty 	
Remedy	Eliminate cause; replace motor/611D hardware if necessary	
Note	Applies as from SW 3	
300505	Measuring circuit error abs. track	POWER ON
Scan	Control power up or cancellation of the Parking Axis function	
Effect	 Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. Power On error 	
Explanation	 Error on the absolute track or measured value acquisition of optical encoder Absolute value encoder defective Motor encoder not connected Motor encoder cable faulty Module faulty Consider MD1023 (IMS) and MD1033 (DMS) 	
Remedy	Eliminate cause; replace motor/611D hardware if necessary	
Note	Applies as from SW 3	

300506	Sign of life: NC failed	POWER ON
Scan	Cyclic after servo enable	
Effect	for MSD:	
	 Pulse suppression, motor coasts down SIMODRIVE_READY and DRIVE_READY are cancelled. Power On – error 	
	for FDD: Controllers are disabled, motor is braked	
	 SIMODRIVE_READY and DRIVE_READY are cancelled. As from drive SW 2, response can be configured via MD 1612.6 	
Explanation	With servos enabled, the NC must update the sign of life in every position control cycle. If a of life has not been updated.	n error occurs, the sign
	Cause: a) NC does not update the sign of life as response to an alarm (e.g. 611D alarm) b) Failure of communication via drive bus c) Hardware fault of drive module d) NC failure	
Deveeet	e) In case of multiple assignment, axial difference in setpoints for position control cycle.	
Remedy	Re a) Check to see whether the sign of life failure is a secondary error. It is a secondary error if, fo Axis x is faulty / outputs an alarm in an n-axes structure. If this error situation is present, the is given for all n axes, although there is a fault/alarm present only on axis x. ⇒ Correct fault of axis x ⇒ Sign of life of other axes is irrelevant	
	Re b) Check connector, take radio interference suppression measures (check shielding and grour Re c) Exchange servo module	nd)
	Re d) See NC error diagnosis, replace NC hardware, if necessary.	
Note	Applies as from SW 6	
300507	Synchronization error rotor position	POWER ON
Scan	Control power up or cancellation of the Parking Axis function	
Effect	for FDD:	
	 Controllers are disabled, motor is braked SIMODRIVE_READY and DRIVE_READY are cancelled As from drive SW 2, response can be configured via MD 1612.7 	
Explanation	Difference angle between the actual rotor position and the recalculated rotor position is too of have occurred on the encoder or zero marker signals.	great. Faults might
Remedy	Reference with BERO deselect. Check encoder cable, encoder cable connection or ground problems might have occurred. Replace motor/611D if necessary.	ing, because EMC
Note	Applies as from SW 4 As from SW 5, alarm cannot be configured	

300508	Zero mark error motor POWER ON
Scan	Cyclic after control power up
Effect	for MSD: Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. Power On error for FDD: Controllers are disabled, motor is braked SIMODRIVE_READY and DRIVE_READY are cancelled
Typlonation	As from drive SW 2, response can be configured via MD 1612.8
Explanation	 The counted number of encoder marks is incorrect on passing through the zero marker. Defective encoder EMC problems Defective IPU submodule
Remedy	Eliminate cause; replace motor/611D hardware if necessary.
Note	Applies as from SW 3
300509	Converter limit frequency exceeded POWER ON
Scan	Cyclic after control power up
Effect	for MSD: Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. Power On error for FDD: Controllers are disabled, motor is braked SIMODRIVE_READY and DRIVE_READY are cancelled Power On error
Explanation	As from drive SW 2, response can be configured via MD 1612.9 Motor frequency has exceeded the limit frequency f_g . Possible causes: Number of encoder marks in MD 1005 does not correspond to actual number of encoder marks. Speed limitation MD 1147 or number of motor pole pairs MD 1112 in FDD or motor nominal frequency MD 1134 and motor nominal speed MD 1400 for MSD are equal to zero or not correct. Limit frequency f_g :. FDD
	$f_g = 1.12$ * minimum(1.2*MD 1400, MD 1147) * MD1112/60 MSD $f_g = 1.12$ * minimum(MD 1146, MD 1147) * number of pole pairs / 60 number of pole pairs = nominal motor frequency (MD 1134) * 60 / nominal motor speed (MD 1400)
Remedy	Check MD 1005 against actual number of encoder marks. If necessary, check MD 1147 (speed limitation), MD 1400 (nominal motor speed) and additionally for MSD: MD 1134 (nominal motor frequency) FDD: MD 1112 (number of motor poles).
Note	Applies as from SW 4
300510	Fault in center frequency measurement POWER ON
Scan	Cyclic after control power up
Effect	 Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. Power On error
Explanation	Speed too high at center frequency measurement
Remedy	Reduce speed
Note	Applies as from SW 4

Note Applies as from SW 4

200511	Maas value memory active	
300511 Scan	Meas. value memory active	POWER ON
Effect	Cyclic after control power upPulse suppression, motor runs down	
LIIGOL	 SIMODRIVE_READY and DRIVE_READY are cancelled. Power On error 	
Explanation	Measured value memory is active during power up	
Remedy	Start up again!	
Note	Applies as from SW 4	
300515	Heat sink temperature alarm	POWER ON
Scan	Cyclic after control power up	
Effect	for MSD:	
	Pulse suppression, motor runs down SIMODRIVE READY and RRIVE READY are concelled	
	 SIMODRIVE_READY and DRIVE_READY are cancelled. Power On error 	
	for FDD:	
	 Controllers are disabled, motor is braked SIMODRIVE_READY and DRIVE_READY are cancelled 	
	 Power On error 	
	As from drive SW 2, response can be configured via MD 1612.15	
Explanation	Heat sink temperature in "hot" state and time of 20 s expired.Converter overload	
	 Ambient temperature too high 	
	Fan not working	
Remedy	Temperature encoder faulty	
Note	Eliminate cause Applies as from SW 3	
Note		
300606	Flux controller at end stop	Reset key
Scan Effect	Cyclically after the control is switched on	
Ellect	 Pulse reset, motor coasts down SIMODRIVE READY and DRIVE_READY are reset. 	
	Reset error	
Explanation	The specified flux setpoint cannot be achieved although the maximum current is specified.	
	 Causes: Motor data (equivalent circuit diagram data) are incorrect 	
	Motor data and type of connection of motor (start/delta) do not match	
	 Motor is unstable because motor data are completely wrong Current limit is too low for motor (0.9 *MD 1238 * MD 1103 < MD 1136) 	
Remedy		
Note	Alarm in SW 5 and higher	
	,	
300607	Current controller at and stop	Pocot kov
Scan	Current controller at end stop	Reset key
Effect	Cyclically after the control is switched onPulse reset, motor coasts down	
Liioot	 SIMODRIVE READY and DRIVE_READY are reset. Reset error 	
Explanation	The specified current setpoint cannot be injected in the motor although the maximum voltage is o	defined.
	Possible causes: Motor either not connected or phase missing	
Remedy	Check motor – converter connecting cable.	
Note	Alarm in SW 5 and higher (611–D: SW 3.1 and higher)	

Reset key

Speed controller against stop

300608

3	80000	Speed controller against stop	Reset key
S	can	Cyclic after control power up	
E	ffect	 Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error 	
R	emedy	Set torque value exceeds limit torque value, set speed value is less than speed threshold MD 1606 MD 1603 (FDD) has expired. Causes: Motor encoder not connected Motor encoder cable faulty Module faulty Encoder faulty Motor earth not connected Motor encoder cable shield not connected Motor not connected or phase not connected Motor blocked Eliminate cause	and the time of
Ν	lote	Applies as from SW 3	
3	00609	Temperature probe break	Reset key
	can	Cyclic after control power up	·····,
_	ffect	 Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error 	
E	xplanation	 Temperature encoder faulty (motor) Connection to encoder faulty Module faulty 	
R	emedy	Eliminate cause or operate at fixed temperature Note: Temperature monitoring not active with fixed temperature	
Ν	lote	Applies as from SW 3	
	00609	Encoder limit frequency exceeded	Reset key
_	can	Cyclic after control power up	
E	ffect	for MSD: • Pulse suppression, motor runs down • SIMODRIVE_READY and DRIVE_READY are cancelled. • Power On error for FDD: • Controllers are disabled, motor is braked • SIMODRIVE_READY and DRIVE_READY are cancelled • Power On error Response via MD 1613.9 configurable as from SW 4	
Е	xplanation	Actual speed value exceeds the encoder limit frequency:	
		 Wrong encoder MD 1005 does not correspond to number of encoder marks Encoder defective Motor encoder cable defective or not fastened properly Motor encoder cable screen not connected Drive module defective 	
R	emedy	Eliminate cause	

Note Applies as from SW 4

300610	Rotor position identification failed Reset key	,
Scan	During the function "Rotor position identification"	
Effect	FDD only:	
Liloot	 Controllers are disabled, motor is braked SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error 	
	Response via MD 1613.13 configurable as from SW 4	
Explanation	Rotor position could not be determined from the measuring signals, because no significant saturation effects oc- curred.	
Remedy	Increase current via MD 1019 or check whether motor is connected.	
Note	Applies as from SW 6	
300611	Illegal motion during rotor position identification Reset key	,
Scan	During the function "Rotor position identification"	
Effect	for MSD only:	
	 Controllers are disabled, motor is braked SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error 	
Explanation	During the measurement, the motor has rotated by a value greater than that entered in MD 1020. The torsion may have been caused by switching the motor onto a rotating motor or through the identification.	
Remedy	If the torsion has been caused by the identification and if the error occurs repeatedly, reduce MD 1019 or increase MD 1020.	
Note	Applies as from SW 6	
300612	Illegal current during rotor position identification Reset key	,
Scan	During the function "Rotor position identification"	
Effect	For FDD only: - Controllers are disabled, motor is braked - SIMODRIVE_READY and DRIVE_READY are cancelled. - Reset error	
Explanation	1. With rotor position identification active (FDD only), the permissible current threshold (power section) was exceeded.	
- <i>'</i>	2. With rotor position identification active (FDD only), the maximum motor current (MD 1104) was exceeded.	
Remedy	With rotor position identification active, check MD 1019 and reduce if applicable.	
Note	Alarm from SW 6.1	
300613	Motor temperature alarm Reset key	,
Scan	Cyclic after control power up	
Effect	for MSD:	
	 Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error 	
	for FDD:	
	 Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled Reset error 	
	Response via MD 1613.13 configurable as from SW 4	
Explanation	Beyond the motor temperature threshold MD 1607	
	 Motor overloaded Machine current too great, e.g. because of incorrect motor data 	
	 Machine current too great, e.g. because of incorrect motor data Temperature sensor defective (motor) 	
	Motor fan defective	
	 Module defective Fault between turns motor 	
Remedy	Fault between turns motor Eliminate cause or operate at MSD fixed temperature Note: Temperature monitoring not active with fixed temperature	
Note	Applies as from SW 4	
-		

300614	Motor temperature cut-off limit	Reset key
Scan	Cyclic after control power up	
Effect	for MSD:	
	Pulse suppression, motor runs down	
	 SIMODRIVE_READY and DRIVE_READY are cancelled. Deant error 	
	Reset error for FDD:	
	 Controllers are disabled, motor is braked 	
	 SIMODRIVE_READY and DRIVE_READY are cancelled 	
	Reset error	
Evolopotion	As from drive SW 2, response can be configured via MD 1613.14	
Explanation	 Beyond motor temperature threshold MD 1602 and timer MD 1603 has expired Motor overloaded 	
	 Machine current too great, e.g. because of incorrect motor data (P–96/P–238) 	
	Temperature sensor defective (motor)	
	 Motor fan defective Module defective 	
	Fault between turns motor	
Remedy	Eliminate cause or operate at MSD fixed temperature	
	Note: Temperature monitoring not active with fixed temperature	
Note	Applies as from SW 3	
300701	Start-up required	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation	Drive does not have correct parameter set	
Remedy	Boot strap via motor selection or load TEA3 file	
	Save BOOT drive	
	Power up again	
Note	Applies as from SW 3	
300702	Drive basic clock pulse invalid	POWER ON
Scan	POWER ON	I OWER ON
Effect		
	Drive only ramps up to ramp-up state 2 A drive basic clock pulse has been set at the NC that is too high for the drive	
-		
Remedy	Change the basic clock pulse at the NC	
Note	Applies as from SW 3	
300703	Current controller clock pulse invalid	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation	A current controller clock pulse MD 1000 has been set that is not allowable for the drive.	
Remedy	Change current controller clock pulse	
Note	Applies as from SW 3	
300704	Speed controller clock pulse invalid	POWER ON
Scan	POWER ON	
Effect		
	Drive only ramps up to ramp-up state 2	
Explanation		
Remedy	Change speed controller clock pulse	
Note	Applies as from SW 3	

300705 Scan Effect Explanation Remedy Note	Position controller clock pulse invalid POWER ON Drive only ramps up to ramp-up state 2 A position controller clock cycle has been set at the NC that is not allowed for the drive Change position controller clock cycle at the NC Applies as from SW 3	POWER ON
300706 Scan Effect Explanation Remedy Note	Monitoring clock pulse invalid POWER ON Drive only ramps up to ramp-up state 2 Monitoring clock pulse MD 1002 is invalid Change monitoring clock cycle Applies as from SW 3	POWER ON
300707 Scan Effect Explanation Remedy Note	Drive basic clock pulse axially not equal POWER ON Drive only ramps up to ramp-up state 2 On 2-axis modules, the drive basic clock cycle must be identical for both axes. On 2-axis modules, the drive basic clock pulse must be set to be identical for both axes. Applies as from SW 3	POWER ON
300708 Scan Effect Explanation Remedy Note	Current controller clock cycle axially not equal POWER ON Drive only ramps up to ramp-up state 2 On 2-axis modules, the current controller clock pulse MD 1000 must be identical for both axes. Set the current controller clock cycle to be identical for both axes. Applies as from SW 3	POWER ON
300709 Scan Effect Explanation Remedy Note	Speed controller clock pulse axially not equal POWER ON Drive only ramps up to ramp-up state 2 On 2-axis modules, the speed controller clock pulse MD 1001 must be identical for both axes. Set speed controller clock pulse to be identical for both axes. Applies as from SW 3	POWER ON
300710 Scan Effect Explanation Remedy Note	Position controller clock pulse axially not equal POWER ON Drive only ramps up to ramp-up state 2 On 2-axis modules, the position controller clock pulse must be identical for both axes. Set the position controller clock pulse to be identical for both axes. Applies as from SW 3	POWER ON

300711 Scan Effect	Monitoring clock pulse axially not equal POWER ON Drive only ramps up to ramp-up state 2	POWER ON
	On 2-axis modules, the monitoring clock pulse MD 1002 must be identical for both axes.	
Remedy	Set the monitoring clock pulse to be identical for both axes.	
Note	Applies as from SW 3	
300712 Scan	Dynamic response setting not possible (2 axes) POWER ON	POWER ON
Effect	Drive only ramps up to ramp-up state 2	
Explanation	For two active axes on a module, it is not possible to change the controller structure via MD 1004.	
Remedy	With two active axes on a module, configuration structure MD 1004 must be set to i before n.	
Note	Applies as from SW 3	
300713	Shift of position controller clock pulse invalid	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation	The position controller clock pulse shift specified by the NC is greater than or equal to the position pulse.	controller clock
Remedy	NC Hotline	
Note	Applies as from SW 4	
300714	Power section code wrong	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation		
	Additional information for MSD (drive SW 1 only): Illegal power section code	
	 The drive has already been booted with a module order number which does not correspond w order number currently set in the NC. 	ith the module
	Additional information for MSD (drive SW 1 only): Actual power section code in MSD and actual power section code in NC	
Remedy	Reselect module in the NC or cancel reboot procedure	
Note	Applies as from SW 3	
300715	Maximum power section current <= 0	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation	The maximum current of the power section MD 1107 has a value that is less than or equal to 0.	
Remedy	Enter a valid value in machine data MD 1107 "Maximum current of power section".	

Note

Applies as from SW 3

300716	Torque constant invalid	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation		
Remedy	Enter a valid value in machine data MD 1113 "Torque constant".	
Note	Applies as from SW 3	
300717	Motor moment of inertia <= 0	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation	Motor moment of inertia MD 1117 has a value that is less than or equal to 0.	
Remedy	Enter a valid value in machine data MD 1117 "Motor moment of inertia".	
Note	Applies as from SW 3	
300718	Calculation delay error, I controller	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation	Input error in calculation delay timer MD 1101	
Remedy	Correct input error in calculation delay timer MD 1101.	
Note	Applies for SW 3 only	
000740	Frank and the second seco	
300719	Error motor code number	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation	One of the motor code numbers is illegal (P–96 or P–238)	
	Additional information Motor fault (1 or 2)	
Remedy	Change motor code number	
	Save BOOT drive	
Note	Repeat ramp-up Applies for SW 3 only	
NOLE	Applies for Sw 3 only	
300719	Motor delta not parameterized	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation	During activation of the star-delta changeover by drive MD1013, the motor delta (motor2) meterized.	is not para-
Remedy	Check or enter machine data for motor delta (motor 2).	
Note	Applies as from SW 4	
300720	Maximum motor speed too high	POWER ON
Scan	Maximum motor speed too high POWER ON	
Effect		
Enect	Drive only ramps up to ramp-up state 2 Maximum motor speed MD 1401 of speed controller clock pulse MD 1001 have too great a value.	
-		
Remedy Note	Reduce maximum motor speed MD 1401 or set a smaller speed controller clock pulse MD 1001.	
NULE	Applies for SW 3 only	

300721 Scan	I0 motor > i-rated motor POWER ON	POWER ON
Effect	Drive only ramps up to ramp-up state 2	
Explanation		
Remedy	Change motor data	
Romody	 Save BOOT drive Repeat ramp-up 	
Note	Applies for SW 3 only	
300722	I0 motor > I-rated power section	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation	Connected motor too large for power section being used (continuous current MD 1108) because of current (MD 1136).	f its no-load
Remedy	Change power section or motor	
Note	Applies for SW 3 only	
300723	STS configuration axially unequal	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation	On 2-axis modules, the configuration of the control set MD 1003 must be identical for both axes.	
Remedy	Make the configuration of the control set identical for both axes.	
Note	Applies as from SW 3	
300724	Invalid pole pair number	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation	FDD: MD 1112 is not correct. MSD: MD 1134 or MD 1400 is not correct.	
Remedy	Eliminate error on inputting the above machine data.	
Note	Applies as from SW 4	
300725	Number of encoder marks = 0	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation		
Remedy	Eliminate error when entering the number of encoder marks MD 1005.	
Note	Applies as from SW 3	
300726	Voltage constant = 0	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation	The voltage constant MD 1114 has a value less than or equal to zero.	
Remedy	Eliminate error on inputting the voltage constant MD 1114.	
Note	Applies as from SW 4	

300727 Reactance <= 0	
Effect Drive only ramps up to ramp-up state 2	
equal to zero.	
Remedy Eliminate error on inputting MD 1139, MD 1140 or MD 1141.	
Note Applies as from SW 4	
300728 Torque/current matching factor too large POWER C	N
Scan POWER ON	
Effect Drive only ramps up to ramp-up state 2	
<i>Explanation</i> The matching factor (set torque → cross current) in the speed controller is too large.	
Remedy Eliminate error when inputting • Rated motor current MD 1103, or • Limit current transistor MD 1107, or • Torque constant MD 1113.	
Note Applies as from SW 4	
300729Motor zero-speed current <= 0POWER CScanPOWER ON	N
Effect Drive only ramps up to ramp-up state 2	
Explanation Motor zero-speed current MD 1118 is less than or equal to zero.	
Remedy Eliminate error on inputting the motor zero-speed current MD 1118	
Note Applies as from SW 4	
300730 Rotor resistence invalid POWER C	N
Scan POWER ON	
Effect Drive only ramps up to ramp-up state 2	
Explanation Rotor resistence is less than or equal to zero or format overflow has occurred.	
Remedy The following machine data can have an incorrect value: • Torque controller clock pulse MD 1001 • Rated motor frequency MD 1134 • Rotor resistence cold MD 1138 • Stator stray reactance MD 1139 • Rotor stray reactance MD 1140	
Note Applies as from SW 4	
300731Rated power <= 0POWER C	N
Scan POWER ON	
Effect Drive only ramps up to ramp-up state 2	
Explanation Rated power MD 1130 is less than or equal to zero.	
<i>Remedy</i> Eliminate error on inputting the rated power MD 1130.	
Note Applies as from SW 4	
300732Rated motor speed <= 0POWER C	N
Scan POWER ON	
Scan POWER ON Effect Drive only ramps up to ramp-up state 2	

POWER ON

POWER ON

POWER ON

POWER ON

POWER ON

Motor no-load	voltage invalid
POWER ON	

Effect	Drive only ramps up to ramp-up state 2
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 Explanation
 The motor no-load voltage MD 1135 is less than or equal to zero or greater than rated motor voltage MD 1132 or greater than 450 x MD 1400/MD 1142.

 With
 MD 1400: Rated motor speed

 MD 1142: Speed at start of field weakening

 Remedy
 Eliminate error on inputting

 • Rated motor voltage MD 1132

- Rotor zero-speed voltage MD 1135
- Rated motor speed MD 1400
 Threshold speed field weaker
- Threshold speed field weakening MD 1142.
- Motor no-load current MD 1136
- Note Applies as from SW 4

300734	Motor no-load current <= 0
Scan	

Scan	POWER ON
Effect	Drive only ramps up to ramp-up state 2
Explanation	Motor no-load current MD 1136 is less than or equal to zero.
Remedy	Eliminate error on inputting the motor no-load current MD 1136.
Note	Applies as from SW 4

300735 Field weakening speed <= 0

Scan	POWER ON
Effect	Drive only ramps up to ramp-up state 2
Explanation	Field weakening speed MD 1142 is less than or equal to zero.
Remedy	Eliminate error on inputting the field weakening speed MD 1142.
Note	Applies as from SW 4

300736 Lh characteristic invalid

Scan	POWER ON
Effect	Drive only ramps up to ramp-up state 2
Explanation	Upper speed on the Lh characteristic MD 1143 is less than or equal to field weakening speed MD 1142 or gain of Lh characteristic MD 1144 is less than 100.
Remedy	 Eliminate error on inputting Upper speed of the Lh characteristic MD 1143 Gain of the Lh characteristic MD 1144 Field weakening speed MD 1142.
Note	Applies as from SW 4

300740 Parameterization error

Scan	POWER ON and cyclic
Effect	Drive only ramps up to ramp-up state 2 or pulse suppression and motor runs down
Explanation	Division error has occurred because of illegal parameter combination
	Additional information: none
Remedy	Check parameters and correct Save BOOT
	Repeat ramp-up
Note	Applies as from SW 3

300733

Scan

300741	Upper limit violated MD	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation	During ramp-up control detects that machine data has violated input limits. This occurs with parar tor-dependent limits if the motor maximum speed is reduced and maintained after booting. Anothe the switching off of the input limits (P–90, bit 0). Alter parameter and switch on input limits again. Additional information: Number of incorrect machine data	
Remedy	 Correct parameter Check all parameters with motor-dependent limits Save BOOT drive Repeat ramp-up 	
Note	Applies as from SW 3	
300742	Lower limit violated MD	POWER ON
Scan	POWER ON	
Effect	Drive only ramps up to ramp-up state 2	
Explanation	During ramp-up control detects that machine data has violated input limits. This occurs with parar tor-dependent limits if the motor maximum speed is reduced and maintained after booting. Anothe the switching off of the input limits (P–90, bit 0). Alter parameter and switch on input limits again. Additional information: Number of incorrect machine data	
Remedy	 Correct parameter Check all parameters with motor-dependent limits Save BOOT drive Repeat ramp-up 	
Note	Applies for SW 3 only	
300742 Scan Effect Explanation Remedy Note	Converter frequency U/f Power On Drive only ramps up to ramp-up state 2 In V/f mode (selection via MD 1014), only converter frequencies (MD 1100) of 4 kHz and 8 kHz and Eliminate error during input of converter frequency MD 1100 or by deselecting V/f mode MD 1014	•
300743	Applies as from SW 5.1 Error on saving FEPROM	POWER ON
	-	

300743 Error on saving FEPROM

Scan	POWER ON
Effect	Drive only ramps up to ramp-up state 2
Explanation	Error occurred when last saved; data from last save operation are used. Additional information: none
Remedy	Check parameters and save BOOT again
Note	Applies for SW 3 only

1-205

0		
300746	No SBH/SG enable POWER O	
Note	Applies as from SW 5.4.	
Remedy	Check machine data MD 1334 upper limit value for safe end position and MD 1335 lower limit value for safe end position, and change them such that the upper limit is greater than the lower limit. Then execute a POWER ON.	
Explanation		
Effect	The power-up procedure is interrupted, the pulses remain disabled.	
Scan	When powering up the control.	
300745	Limit values for safe end position interchanged POWER O	
Note	Applies as from SW 5.4.	
Remedy	Check all safety-related MDs and make any necessary corrections. Then execute a POWER ON. Carry out an acceptance test.	
Explanation	7 The actual checksum calculated by the drive and stored in MD 1398 via the safety-related MDs has a different value to the reference checksum stored in MD 1399 on the last machine acceptance. The safety-related data have been modified or an error has occurred.	
Effect	The power-up procedure is interrupted, the pulses remain disabled.	
Scan	When powering up the control.	
300744	Checksum error safe monitorings POWER O	
Note	Applies as from SW 5.4.	
Remedy	Replace the 611D control module.	
Explanation	The 611D performance control module is required for SINUMERIK Safety Integrated (see SINUMERIK Safety Integrated documentation). This alarm is output if the hardware is not installed. This alarm also occurs if 1PH2/4/6 motors are connected and no 611D performance control module is installed.	
Effect	The power-up procedure is interrupted, the pulses remain disabled.	
Scan	When powering up the control.	

Function not with this 611D control module

Scan	When powering up the control.
Effect	The power-up procedure is interrupted, the pulses remain disabled.
Explanation	The SBH/SG function is not enabled in MD 1301, although the SE/SN function is selected in this MD.
Explanation	 The SBH/SG function is not enabled in MD 1301, although the SE/SN function is selected in this MD. Cam synchronization enabled without function SN active.
Remedy	Enable the SBH/SG function in MD 1301.
Note	Applies as from SW 5.4.

300747	Monitoring cycle MD 1300 invalid
Scan	When powering up the control.
Effect	The power–up procedure is interrupted, the pulses remain disabled.
Explanation	MD 1300 was not set to a multiple of the NC position control cycle.
Remedy	Set the monitoring cycle in MD 1300 to n * NC position control cycle, where n must be 1.
Note	Applies as from SW 5.4.

POWER ON

Ν

POWER ON

200740	Manitaring angle of both avec not identical	
300748 Scan	Monitoring cycle of both axes not identical	POWER ON
Effect	When powering up the control. The power–up procedure is interrupted, the pulses remain disabled.	
Explanation		odulo
Remedy	Set MD 1300 to the same value on all drives of the module.	ouule.
Note	Applies as from SW 5.4.	
1010		
300749	Conversion factor between motor and load too	POWER ON
Scan	When powering up the control.	
Effect	The power–up procedure is interrupted, the pulses remain disabled.	
Explanation		greater than 1, or
Conditions	The condition for the load to motor system factor is: μ m_to_incr ≤ 65535 The condition for the motor to load system factor is: incr_to_ μ m ≤ 1	
	$mit \mu m_to_incr = \frac{1}{incr_to_\mu m}$	
Equation for rotary axis	With a rotary motor encoder and a rotary axis:	
	$incr_to_{\mu}m(n) = \frac{MD1321}{MD1322} * incr_to_{\mu}m_rot_rot$	
	where $n = 0 \dots 7$ (gear stage) and	
	$incr_to_{\mu}m_{rot}rot = \frac{360000}{8192} * \frac{1}{MD1318}$	
Equation for linear axis	With a rotary motor encoder and a linear axis:	
	$incr_to_{\mu}m(n) = \frac{MD1321}{MD1322} * incr_to_{\mu}m_rot_lin$	
	where $n = 0 \dots 7$ (gear stage) and	
	$incr_to_{\mu}m_rot_lin = \frac{1000}{8192} * \frac{1}{MD1318} * MD1320$	
Remedy	Check the following safety–related MDs, depending on the motor encoder type and axis type, and correct if necessary. • MD 1317	
	Grid spacing linear scale (for a linear encoder)MD 1318	
	 Encoder marks per revolution (for a rotary encoder) MD 1318 MD 1320 	
	 (for a rotary encoder and linear axis) MD 1321 MD 1322 	
	(for the use of a gearbox)	
	The motor type and axis type are defined in MD 1302.	

Note Applies as from SW 5.4

300750	Speed controller adapt.: n-max < n-min Reset key
300850	
Scan	Cyclic after control power up
Effect	for MSD:
	 Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error
	for FDD:
	 Controllers are disabled, motor is braked SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error
	 Response via MD 1613.0 can be configured as from drive SW 2. Alarm output can be activated via MD 1012.4 as from V. 5.2 (611D: SW 3). MD 1012.4 = 0: 300750 MD 1012.4 = 1: 300850
Explanation	The upper adaptation speed MD 1412 is less than the lower adaptation speed MD 1411.
Remedy	Enter a larger value for upper adaptation speed MD 1412 than for lower adaptation speed MD 1411.
Note	Applies as from SW 3
Noto	
300751	Speed controller amplification too high Reset key
Scan	Cyclic after control power up
Effect	for MSD:
LIIECI	Pulse suppression, motor runs down
	SIMODRIVE_READY and DRIVE_READY are cancelled.
	Reset error
	for FDD:
	 Controllers are disabled, motor is braked SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error
	Response via MD 1613.0 can be configured as from drive SW 2.
Explanation	The P gain of the speed controller MD 1407 or MD 1408 is too large.
Remedy	Enter lower value for P gain MD 1407 or MD 1408 for speed controller; or the motor zero-speed current MD 1118 must be greater than zero.
Note	Applies as from SW 3
300752	Blocking freq. I-set filter wrong Reset key
Scan	Cyclic after control power up
Effect	for MSD:
	Pulse suppression, motor runs down
	 SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error
	for FDD:
	 Controllers are disabled, motor is braked
	SIMODRIVE_READY and DRIVE_READY are cancelled.Reset error
	Response via MD 1613.0 can be configured as from drive SW 2.
Explanation	Sampling theorem violated.
Remedy	The blocking frequency MD 1210, MD 1213, MD 1216, MD 1219 for each current filter must be greater than the reciprocal value of two current controller clock pulses MD 1000.
Note	Applies as from SW 3

300753	Timer n-controller at stop wrong	Reset key
Scan	Cyclic after control power up	,
Effect	 Controllers disabled, motor braked SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error 	
Explanation	-	
Remedy	Speed controller timer at stop MD 1605 must always be larger or the same as the pulse suppression MD 1403.	n cutoff speed
Note	Applies as from SW 3	
300754 300854	Signal number invalid	Reset key
Scan	Cyclic after control power up	
Effect	for MSD: • Pulse suppression, motor runs down • SIMODRIVE_READY and DRIVE_READY are cancelled. • Reset error for FDD: • Controllers are disabled, motor is braked • SIMODRIVE_READY and DRIVE_READY are cancelled. • Reset error Response via MD 1613.0 can be configured as from drive SW 2.	
	Alarm output can be activated via MD 1012.4 as from V. 5.2 (611D: SW 3). • MD 1012.4 = 0: 300754 • MD 1012.4 = 1: 300854	
Explanation	Signal number invalid in the variables signalling function and min-max memory.	
Remedy	Enter correct signal number.	
Note	Applies as from SW 4	
300755 300855	V/f operation: motor running	Reset key
Scan	Cyclic after control power up	
Effect	 for MSD: Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error for FDD: Controllers are disabled, motor is braked SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error Reset error Response via MD 1613.0 can be configured as from drive SW 2. Alarm output can be activated via MD 1012.4 as from V. 5.2 (611D: SW 3). MD 1012.4 = 0: 300755 	
	• MD 1012.4 = 1: 300855	

Explanation V/f operation: at initialization, the motor turns.

Remedy Stop the motor.

Note Applies as from SW 4

300756	Hysteresis of torque setpoint smoothing too large Reset k	ey
Scan	Cyclic after control power up	
Effect	for MSD: Pulse suppression, motor runs down 	
	 SIMODRIVE_READY and DRIVE_READY are cancelled. 	
	Reset error	
	for FDD: Controllers are disabled, motor is braked 	
	SIMODRIVE_READY and DRIVE_READY are cancelled.	
	 Reset error Response via MD 1613.0 can be configured as from drive SW 2. 	
Explanation		
Domodu	point smoothing MD 1245.	
Remedy	Eliminate error on inputting MD 1246 and MD 1245.	
Note	Applies as from SW 4	
300757	Torque matching factor too great Reset k	ey
Scan	Cyclic after control power up	
Effect	for MSD: Pulse suppression, motor runs down	
	 Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. 	
	Reset error	
	for FDD: Controllers are disabled, motor is braked 	
	 SIMODRIVE_READY and DRIVE_READY are cancelled. 	
	Reset error	
Explanation	Response via MD 1613.0 can be configured as from drive SW 2.	
Explanation Remedy		
Note	Eliminate error on inputting MD 1191. Applies as from SW 4	
11010		
300758	Upper generator threshold too high Reset k	ev
300858		•
Scan	Cyclic after control power up	
Effect	for MSD:	
	 Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. 	
	Reset error	
	for FDD:	
	 Controllers are disabled, motor is braked SIMODRIVE_READY and DRIVE_READY are cancelled. 	
	Reset error	
	Response via MD 1613.0 can be configured as from drive SW 2.	
	Alarm output can be activated via MD 1012.4 as from V. 5.2 (611D: SW 3). • MD 1012.4 = 0: 300758	
	• MD 1012.4 = 1: 300858	
Explanation	Upper threshold of the two-point controller is too high in the generator mode i.e. the sum of the values in MD1631 + MD1632 exceeds that in MD1633.	
Remedy	Eliminate error on inputting MD 1631, MD 1632 and MD 1633.	
Note	Applies as from SW 4	

300759 300859	Generator cut-off threshold too high	Reset key
Scan	Cyclic after control power up	
Effect	for MSD: Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error 	
	 for FDD: Controllers are disabled, motor is braked SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error 	
	 Response via MD 1613.0 can be configured as from drive SW 2. Alarm output can be activated via MD 1012.4 as from V. 5.2 (611D: SW 3). MD 1012.4 = 0: 300759 MD 1012.4 = 1: 300859 	
Explanation	Generator cut-off voltage MD 1633 is greater than or equal to the response threshold for the d.c. link MD 1630.	monitoring
Remedy	Eliminate error on inputting MD 1633 or MD 1630.	
Note	Applies as from SW 4	
300760 300860	Excessive emergency retraction speed	Reset key
Scan	Cyclic after control power up	
Effect	for MSD:	
	 Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error 	
	 for FDD: Controllers are disabled, motor is braked SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error 	
	 Response via MD 1613.0 can be configured as from drive SW 2. Alarm output can be activated via MD 1012.4 as from V. 5.2 (611D: SW 3). MD 1012.4 = 0: 300760 	
	• MD 1012.4 = 1: 300860	
Explanation	Emergency retraction speed MD 1639 is greater than or equal to the maximum speed MD 1146.	
Remedy	Eliminate error on inputting MD 1639 or MD 1146.	
Note	Applies as from SW 4	
300761 300861	Min. generator speed too high	Reset key
Scan	Cyclic after control power up	
Effect	for MSD:	
	 Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error 	
	for FDD:	
	 Controllers are disabled, motor is braked SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error 	
	Response via MD 1613.0 can be configured as from drive SW 2.	
	Alarm output can be activated via MD 1012.4 as from V. 5.2 (611D: SW 3). MD 1012.4 = 0: 300761 MD 1012.4 = 1: 300861	
Explanation		
Remedy	Eliminate error on inputting MD 1635 or MD 1146.	
Note	Applies as from SW 4	

300762	Emergency retract/generator active Reset k	әу
300862		
Scan	Cyclic after control power up	
Effect	for MSD:	
	 Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. 	
	Reset error	
	for FDD:	
	Controllers are disabled, motor is braked	
	 SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error 	
	Response via MD 1613.0 can be configured as from drive SW 2.	
	Alarm output can be activated via MD 1012.4 as from V. 5.2 (611D: SW 3).	
	 MD 1012.4 = 0: 300762 MD 1012.4 = 1: 300862 	
Explanation	Emergency retraction or generator is already active.	
Remedy	Check parameterization/machine data.	
Note	Applies as from SW 4	
300763	Generator/emergency retraction mode invalid Reset k	ey
300863		
Scan	Cyclic	
Effect	for MSD:	
	 Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. 	
	Reset error	
	for FDD:	
	 Controllers are disabled, motor is braked SIMODRIVE_READY and DRIVE_READY are cancelled. 	
	Reset error	
	Response via MD 1613.0 can be configured as from drive SW 2.	
	Alarm output can be activated via MD 1012.4 as from V. 5.2 (611D: SW 3).	
	 MD 1012.4 = 0: 300763 MD 1012.4 = 1: 300863 	
Explanation	Value given by the NC via a G command must be in the range 0 7.	
Remedy	Check parameterization (G command in the NC).	
Note	Applies as from SW 4	
300764	No emergency retraction/generator mode possible Reset k	ey
300864		
Scan	Cyclic	
Effect	for MSD:	
	 Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. 	
	SinoDRIVE_READT and DRIVE_READT are cancelled. Reset error	
	for FDD:	
	 Controllers are disabled, motor is braked SIMODRIVE READY and DRIVE READY are cancelled 	
	 SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error 	
	Response via MD 1613.0 can be configured as from drive SW 2.	
	Alarm output can be activated via MD 1012.4 as from V. 5.2 (611D: SW 3).	
	 MD 1012.4 = 0: 300764 MD 1012.4 = 1: 300864 	
Explanation	Emergency retraction/generator mode is possible only with active d.c. link measurement (MD 1161 = 0) in an old	
	hardware version, no d.c. link measurement is possible and therefore the error message 300765 might also be issued if in an old hardware version MD 1161 is set to zero.	
Remedy	Enter the value zero into machine data MD 1161 or order new hardware version (hardware components: drive	
	control with Order No. 6SN1 118–0Dx1x–0AA0).	
Note	Applies as from SW 4	

300765 300865	No link measurement possible Reset key
Scan	Cyclic
Effect	 for MSD: Pulse suppression, motor runs down SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error for FDD: Controllers are disabled, motor is braked SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error Response via MD 1613.0 can be configured as from drive SW 2. Alarm output can be activated via MD 1012.4 as from V. 5.2 (611D: SW 3). MD 1012.4 = 0: 300765 MD 1012.4 = 1: 300865
Explanation	If the fixed voltage MD 1161 is equal to zero, no d.c. link measurement is possible because of the incorrect hard- ware version.
Remedy	In the machine data fixed voltage MD 1161, enter a value greater than zero or order new hardware version (hard- ware components: drive control with the Order No. 6SN1 118–0Dx1x–0AA0).
Note	Applies as from SW 4
300766	Blocking frequency greater than Shannon frequency Reset key
Scan	Cyclic after control power up
Effect	With MSD:
	 Pulse reset, motor coasts down SIMODRIVE_READY and DRIVE_READY are reset. Reset error With FDD:
	 Controllers disabled, motor braked SIMODRIVE_READY and DRIVE_READY are reset. Reset error
	Response via MD 1613.0 can be configured as from drive SW 2.
Explanation	The band-stop frequency of a speed setpoint filter is greater than the Shannon sampling frequency from the sam- pling theorem.
Remedy	The band-stop frequency of a speed setpoint filter must be smaller than the reciprocal value of two speed control- ler pulserates.
	Speed setpoint filter 1: MD 1210 < 1 / (2•MD 1000•31.25 microsec) Speed setpoint filter 2: MD 1213 < 1 / (2•MD 1000•31.25 microsec) Speed setpoint filter 3: MD 1216 < 1 / (2•MD 1000•31.25 microsec) Speed setpoint filter 4: MD 1219 < 1 / (2•MD 1000•31.25 microsec) The band-stop frequency of a current setpoint filter must be smaller than the reciprocal value of two current con-
	troller pulserates. Current setpoint filter 1: MD 1214 < 1 / (2•MD 1000•31.25 microsec) Current setpoint filter 2: MD 1217 < 1 / (2•MD 1000•31.25 microsec)
Note	Alarm in SW 5 and higher

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200767	Natural frequency greater than Shannon frequency
300767	Natural frequency greater than Shannon frequency Reset key
Scan	Cyclic after control power up
Effect	With MSD: Pulse reset, motor coasts down SIMODRIVE_READY and DRIVE_READY are reset. Reset error With FDD: Controllers disabled, motor braked SIMODRIVE_READY and DRIVE_READY are reset. Reset error Preserver with PD 4040.0 are be applicated for from the power
E velopetion	Response via MD 1613.0 can be configured as from drive SW 2.
Explanation	theorem.
Remedy	The natural frequency of a speed setpoint filter must be lower than the reciprocal value of two speed controller pulserates. Speed setpoint filter 1: MD 1520•0.01•MD 1514 < 1 / (2•MD 1001•31.25 microsec) Speed setpoint filter 2: MD 1521•0.01•MD 1517 < 1 / (2•MD 1001•31.25 microsec)
Note	Alarm in SW 5 and higher
300768	Counter bandwidth greater than double blocking frequency Reset key
Scan	Cyclic after control power up
Effect	With MSD: Pulse reset, motor coasts down SIMODRIVE_READY and DRIVE_READY are reset. Reset error With FDD: Controllers disabled, motor braked SIMODRIVE_READY and DRIVE_READY are reset. Reset error
	Response via MD 1613.0 can be configured as from drive SW 2.
	The counter bandwidth of a current or speed setpoint filter is greater than twice the blocking frequency. This error message is generated for the general band blocking only if: Speed setpoint filter 1: MD 1516 > 0.0 or MD 1520 \neq 100.0 Speed setpoint filter 2: MD 1519 > 0.0 or MD 1521 \neq 100.0 Current setpoint filter 1: MD 1212 > 0.0 Current setpoint filter 2: MD 1215 > 0.0 Current setpoint filter 3: MD 1218 > 0.0 Current setpoint filter 4: MD 1221 > 0.0
Remedy	The counter bandwidth must be smaller than double the blocking frequency.
	Current setpoint filter 1: MD 1212 $\leq 2 \cdot MD$ 1210 Current setpoint filter 2: MD 1215 $\leq 2 \cdot MD$ 1213 Current setpoint filter 3: MD 1218 $\leq 2 \cdot MD$ 1216 Current setpoint filter 4: MD 1221 $\leq 2 \cdot MD$ 1219 Speed setpoint filter 1: MD 1516 $\leq 2 \cdot MD$ 1514 Speed setpoint filter 2: MD 1519 $\leq 2 \cdot MD$ 1517
Note	Alarm in SW 5 and higher
	-

300769	Denominator bandwidth greater than double natural frequency Reset	key
Scan	Cyclic after control power up	-
Effect	With MSD:	
	Pulse reset, motor coasts down	
	SIMODRIVE_READY and DRIVE_READY are reset.	
	Reset error	
	With FDD: Controllers disabled, motor braked	
	 SIMODRIVE_READY and DRIVE_READY are reset. 	
	Reset error	
	Response via MD 1613.0 can be configured as from drive SW 2.	
Explanation		
	This error message is generated for the general band blocking only if: Speed setpoint filterr 1:	
	MD 1516 > 0.0 or	
	MD 1520 \neq 100.0 Speed setpoint filter 2:	
	MD 1519 > 0.0 or	
	MD 1521 \neq 100.0 Current potpoint filter 1:	
	Current setpoint filter 1: MD 1212 > 0.0	
	Current setpoint filter 2: MD 1215 > 0.0	
	Current setpoint filter 3:	
	MD 1218 > 0.0 Current setpoint filter 4:	
	MD 1221 > 0.0	
Remedy	The denominator bandwidth of a current or speed setpoint filter must be greater than double the natural frequen	псу.
	Speed setpoint filter 1: MD 1515 ≦ 2•MD 1514•0.01•MD 1520	
	Speed setpoint filter 2:	
	MD 1518 ≦ 2•MD 1517•0.01•MD 1521 Current setpoint filter 1:	
	MD 1211 ≦ 2•MD 1210	
	Current setpoint filter 2: MD 1214 ≦ 2∙MD 1213	
	Current setpoint filter 3:	
	MD 1217 ≦ 2•MD 1216 Current setpoint filter 4:	
	MD 1220 ≦ 2∙MD 1219	
Note	Alarm in SW 5 and higher	
300770	Filter factor cannot be represented Reset	kev
Scan	Cyclic after control power up	
Effect	With MSD:	
	Pulse reset, motor coasts down	
	 SIMODRIVE_READY and DRIVE_READY are reset. 	
	Reset error	
	With FDD: Controllers disabled, motor braked	
	 SIMODRIVE_READY and DRIVE_READY are reset. 	
	Reset error	
	Response via MD 1613.0 can be configured as from drive SW 2.	
Explanation	The calculated filter coefficients for a band-stop filter cannot be represented in the internal format.	
Remedy	Alter filter setting	
Note	Alarm in SW 5 and higher	

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300775 300875	Fixed voltage axially unequal	Reset key
Scan	Cyclic	
Effect	 Error 300775: for MSD: Pulse deletion, motor idles to a stop SIMODRIVE_READY and DRIVE_READY are canceled. for FDD: Controllers are disabled, motor brakes SIMODRIVE_READY and DRIVE_READY are canceled. Response configurable via MD 1613.0 as from drive SW 2. Error 300875: No impact on current operation. The old state is retained as long as the fixed axial voltages on t axes are different. Alarm output can be activated via MD 1012.4 as from SW 5.2 (611D: SW 3). MD 1012.4 = 0: 300775 MD 1012.4 = 1: 300875 	he module
Explanation	 The fixed voltage for the intermediate circuit entered in each MD 1161 is different for the axes of a to ule. When a fixed voltage not equal to 0 is entered in MD 1161, it replaces the measured voltage of ate circuit. The fixed voltages in MD 1161 for the axes on a module must be equal before they can be MD 1161 for both axes = 0 Measured voltage of the intermediate circuit is used in internal calculations. MD 1161 for both axes = 580 V The entered fixed voltage is used in internal calculations. 	the intermedi-
Remedy	Set the same fixed voltage or enter "0" on all module axes in order to use the measured intermediat age for internal calculations.	e circuit volt-
Note	Applies as from SW 5	
300776	Meas. circ. monitor. motor (inc.) inact.	Reset key
Scan	Power–up and cyclic	
Effect	for MSD: Pulse deletion, motor idles to a stop SIMODRIVE_READY and DRIVE_READY are canceled. Reset error for FDD: Controllers are disabled, motor brakes SIMODRIVE_READY And DRIVE_READY are canceled Reset error Response configurable via MD 1613.0 as from drive SW 2.	
Explanation	When SINUMERIK Safety Integrated function MD 1301 is active, the measuring circuit monitoring n (inc.) MD 1600.4 must be active.	notor
Remedy	Activate the measuring circuit monitoring motor (inc.) by setting MD 1600.4 = 0.	
Note	Applies as from SW 5.4	
300777	Current for rotor position identification	Reset key
Scan	Power-up and cyclic	
Effect	 FDD only: Controllers are disabled, motor brakes SIMODRIVE_READY and DRIVE_READY are canceled. Response configurable via MD 1613.0 as from drive SW 4. 	
Explanation	MD 1019.	eterized in
Remedy	Reduce current via MD 1019.	
Note	Applies as from SW 6	

200779	Illegal convertor frequency rotor position identification Poset key
300778	Illegal converter frequency rotor position identification Reset key
Scan	Power-up and cyclic
Effect	FDD only: – Controllers are disabled, motor brakes – SIMODRIVE_READY and DRIVE_READY are canceled.
Explanation	When selecting the rotor position identification (MD 1018), only converter frequencies (MD 1100) of 4 kHz or 8 kHz are permissible.
Remedy	Change converter frequency or deselect rotor position identification.
Note	Applies as from SW 6
300779	Motor moment of inertia ≤ 0 Reset key
Scan	Power-up and cyclic
Effect	for MSD:
	 Pulse suppression, motor coasts down
	 SIMODRIVE_READY and DRIVE_READY are canceled for FDD:
	 Controllers are disabled, motor brakes
<u>Evente e e tie e</u>	- SIMODRIVE_READY and DRIVE_READY are canceled.
Explanation	Motor moment of inertia MD 1117 has a value that is smaller or equal to zero.
Remedy	Enter a correct value in machine data MD 1117 "Motor moment of inertia".
Note	Applies as from SW 6
300780	IO motor > I-rated motor Reset key
Scan	Power–up and cyclic
Effect	MSD only:
	 Pulse suppression, motor coasts down SIMODRIVE_READY and DRIVE_READY are canceled.
-	The no-load current of the motor (MD 1136) is greater than the rated current (MD 1103) of the motor.
Remedy	 Change motor data Save Boot drive Power up again
Note	Applies as from SW 6
300781	IO motor > I-rated power section Reset key
Scan	Power-up and cyclic
Effect	MSD only:
Lifect	 Pulse suppression, motor coasts down
	 SIMODRIVE_READY and DRIVE_READY are canceled.
Explanation	ous current MD 1108).
Remedy	Replace power section or motor
Note	Applies as from SW 6
300782	Reactance ≤ 0 Reset key
Scan	Power-up and cyclic
Effect	FDD only:
	 Controllers are disabled, motor brakes SIMODRIVE_READY and DRIVE_READY are canceled.
	Response configurable via MD 1613.0 as from drive SW 4.
Explanation	The stator reactance MD 1139 or rotor reactance MD 1140 or main field reactance MD 1141 is smaller than or equal to zero.
Remedy	Correct error when entering MD 1139, MD 1140 or MD 1141.
Note	Applies as from SW 6

300783	Rotor resistance invalid	Reset key
Scan	Power–up and cyclic	
Effect	MSD only:	
	 Pulse suppression, motor coasts down SIMODRIVE_READY and DRIVE_READY are canceled. 	
Explanation	The rotor resistance is less than or equal to zero or a format overflow has occurred.	
Remedy	 The following machine data may have an incorrect value: Speed controller cycle MD 1001 Motor rated frequency MD 1134 Rotor resistance cold MD 1138 Stator leakage reactance MD 1139 Rotor leakage reactance MD 1140. 	
Note	Applies as from SW 6	
300784	Motor no-load voltage invalid	Reset key
Scan	Power-up and cyclic	
Effect	MSD only:	
Liloot	 Pulse suppression, motor coasts down SIMODRIVE_READY and DRIVE_READY are canceled. 	
Explanation	Error in no-load voltage (MD 1135):	
	 MD 1135 ≦ 0 or MD 1135 > MD 1132 or MD 1135 x MD 1142 / MD 1400 + Vpre>450 V 	
	With	
	Vpre=0.181 x MD 1136 x MD 1142 x MD 1119 MD 1132: Rated motor voltage	
	MD 1400: Rated motor speed	
	MD 1142: Threshold speed field weakening	
	MD 1136: No–load motor current	
Remedy	MD 1119: Inductance series reactor	
Remeay	Correct error when entering - Rated motor voltage MD 1132 or: - No-load motor voltage MD 1135 or - Rated motor speed MD 1400 or - Rotor resistance cold MD 1138 - Threshold speed field weakening MD 1142 or - No-load motor current MD 1136.	
Note	Applies as from SW 6	
300785	Motor no-load current ≤ 0	Reset key
Scan	Power-up and cyclic	
Effect	MSD only: – Pulse suppression, motor coasts down	
	 SIMODRIVE_READY and DRIVE_READY are canceled. 	
Explanation	Motor no-load current MD 1136 is smaller than or equal to zero.	
Remedy	Correct the error when entering the motor no-load current MD 1136.	
Note	Applies as from SW 6	
300786	Field weakening speed ≤ 0	Reset key
Scan	Power-up and cyclic	
Effect	MSD only: – Pulse suppression, motor coasts down – SIMODRIVE_READY and DRIVE_READY are canceled.	
Explanation	Field weakening speed MD 1142 is smaller than or equal to zero.	
, Remedy	Correct the error when entering the field weakening speed MD 1142.	
Note	Applies as from SW 6	

300788	Parameterization error current controller adaptation Reset	key
Scan	Power-up and cyclic	
Effect	FDD only:	
	 Controllers are disabled, motor is braked SIMODRIVE_READY and DRIVE_READY are cancelled. 	
	Reset error	
	Response configurable with MD 1613.0 from drive SW 2.	
Explanation	OUPper currrent limit MD 1181: \$MD_CURRCTRL_ADAPT_CURRENT_2 (upper current limit adaptation) is sn than lower current limit MD 1180: \$MD_CURRCTRL_ADAPT_CURRENT_1 (lower current limit adaptation).	naller
Note	Alarm from SW 6.3	
300799	Save and boot required Power	On
Scan	Cyclic after control power up	
Effect	for MSD:	
	Pulse suppression, motor runs down	
	 SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error 	
	for FDD:	
	Controllers are disabled, motor is braked	
	 SIMODRIVE_READY and DRIVE_READY are cancelled. Reset error 	
	Response via MD 1613.0 can be configured as from drive SW 2.	
Explanation	After automatic calculation of the controller parameters, it is necessary to save the machine data and to performed at a second seco	rm a
1	power up.	
Remedy	Perform above measures.	
Note	Applies as from SW 4	
300850	Speed controller adaptation: n–max < n–min	
Note	Alarm description see 300750	
300854	Signal number invalid	
Note	Alarm description see 300754	
200055	ult an aration, motor supplier	
300855	u/f operation: motor running	
Note	Alarm description see 300755	
300858	Upper generator threshold too high	
Note	Alarm description see 300758	
300859	Generator cut–off threshold too high	
Note	Alarm description see 300759	
NOLE	Alam description see 500755	
300860	Excessive emergency retraction speed	
Note	Alarm description see 300760	
300861	Minimum generator speed too high	
Note	Alarm description see 300761	

SINUMERIK 840C / SIMODRIVE 611-D (DA)

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Applies as from SW 6

Note

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300862 Emerg	ency retraction	/generator active	е
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Note Alarm description see 300762

300863 Generator/emergency retraction mode invalid

Note Alarm description see 300763

300864 No emergency retraction/generator mode possible

Note Alarm description see 300764

300865 No link measurement possible

Note Alarm description see 300765

- 300875 Fixed voltage axially unequal
- Note Alarm description see 300775

300888 Parameterization error current controller adaptation

- Note Alarm description see 300788
- 300899 Save and boot necessary
- Note Alarm description see 300799

300900 Stop A triggered

POWER ON Scan In monitoring cycle. Effect The drive is stopped with STOP A Pulses are disabled via relay "Drive_IMP". Motor runs down Power on error Explanation There can be several reasons for triggering STOP A: The time frame in MD 1356 of STOP B has expired. The speed has fallen below the threshold in MD 1360 of STOP B. The shut-down path test has been requested by the user by SGE "test stop selection", but the pulses were not deleted after expiry of the time frame in MD 1357. Remedy The user must find the cause and initiate appropriate measures. Note Applies as from SW 5.4 300901 Stop B triggered POWER ON Scan Cyclic in SI monitoring cycle. Effect The drive is stopped with STOP B. The pulses are then disabled via relay "Drive_IMP". Explanation There can be several reasons for triggering STOP B: The safe standstill monitoring has responded. STOP B was requested after STOP F, i.e. an error has occurred during cross-comparison. Remedv The user must find the cause and initiate appropriate measures. Note Applies as from SW 5.4 300906 POWER ON Safe braking ramp exceeded Scan Cyclic in SI monitoring cycle. Effect The drive is stopped with STOP A. The pulses are then disabled via relay "Drive_IMP". Explanation Die Istgeschwindigkeit der Achse ist beim Bremsen mit "nsoll=0" (Stop B oder Stop C) nicht verringert worden, sondern ist über die beim Bremsen nachgeführte Geschwindigkeitsgrenze und die in MMMMD_SB_STOP_N_TOL (Toleranz Istgeschwindigkeit für SBR) eingetragene Toleranz angestiegen. Remedy Eingabewert des Maschinendatums MD_SB_STOP_N_TOL überprüfen.

300907

Scan

Scan	Cyclic in SI monitoring cycle.
Effect	The drive is stopped with STOP A or STOP B. The pulses are disabled via relay "Drive_IMP".
Explanation	The actual position has migrated too far from the set/standstill position (outside the standstill window). The stand- still window is configured in MD 1330.
Remedy	The user must find the cause and initiate appropriate measures.
Note	Applies as from SW 5.4
300908	Stop C triggered Reset key
Scan	Cyclic in SI monitoring cycle.
Effect	The drive is stopped with STOP C. After completion of the stop reaction, the drive remains under control, and the axis is monitored for SBH.
Explanation	 There can be several reasons for triggering STOP C (depending on the configuration): The safe speed monitoring has responded (MD 1361). The safe end position monitoring has responded (MD 1362).
Remedy	The user must find the cause and initiate appropriate measures.
Note	Applies as from SW 5.4
300909	Stop D triggered Reset key
Scan	Cyclic in SI monitoring cycle.
Effect	The NC has stopped the drive with STOP D. After completion of the stop reaction, the drive remains under control, and the axis is monitored for SBH.
Explanation	 There can be several reasons for triggering STOP D (depending on the configuration): The safe speed monitoring has responded (MD 1361). The safe end position monitoring has responded (MD 1362).
Remedy	The user must find the cause and initiate appropriate measures.
Note	Applies as from SW 5.4
300910	Stop E triggered Reset key
Scan	Stop E triggeredReset keyCyclic in SI monitoring cycle.
Scan Effect	Cyclic in SI monitoring cycle. The NC has stopped the drive with STOP E. After completion of the stop reaction, the drive remains under control, and the axis is monitored for SBH.
Scan Effect	Cyclic in SI monitoring cycle. The NC has stopped the drive with STOP E. After completion of the stop reaction, the drive remains under control,
Scan Effect	Cyclic in SI monitoring cycle. The NC has stopped the drive with STOP E. After completion of the stop reaction, the drive remains under control, and the axis is monitored for SBH. There can be several reasons for triggering STOP E (depending on the configuration): • The safe speed monitoring has responded (MD 1361).
Scan Effect Explanation	 Cyclic in SI monitoring cycle. The NC has stopped the drive with STOP E. After completion of the stop reaction, the drive remains under control, and the axis is monitored for SBH. There can be several reasons for triggering STOP E (depending on the configuration): The safe speed monitoring has responded (MD 1361). The safe end position monitoring has responded (MD 1362).
Scan Effect Explanation Remedy	 Cyclic in SI monitoring cycle. The NC has stopped the drive with STOP E. After completion of the stop reaction, the drive remains under control, and the axis is monitored for SBH. There can be several reasons for triggering STOP E (depending on the configuration): The safe speed monitoring has responded (MD 1361). The safe end position monitoring has responded (MD 1362). The user must find the cause and initiate appropriate measures.
Scan Effect Explanation Remedy Note	 Cyclic in SI monitoring cycle. The NC has stopped the drive with STOP E. After completion of the stop reaction, the drive remains under control, and the axis is monitored for SBH. There can be several reasons for triggering STOP E (depending on the configuration): The safe speed monitoring has responded (MD 1361). The safe end position monitoring has responded (MD 1362). The user must find the cause and initiate appropriate measures. Applies as from SW 5.4
Scan Effect Explanation Remedy Note 300911	Cyclic in SI monitoring cycle. The NC has stopped the drive with STOP E. After completion of the stop reaction, the drive remains under control, and the axis is monitored for SBH. There can be several reasons for triggering STOP E (depending on the configuration): The safe speed monitoring has responded (MD 1361). The safe end position monitoring has responded (MD 1362). The user must find the cause and initiate appropriate measures. Applies as from SW 5.4 Failure in a monitoring channel Cyclic in SI monitoring cycle. If no Safety Integrated monitoring system is active, STOP F does not initiate a stop response, but displays the message "Failure in a monitoring channel".
Scan Effect Explanation Remedy Note 300911 Scan Effect	Cyclic in SI monitoring cycle. The NC has stopped the drive with STOP E. After completion of the stop reaction, the drive remains under control, and the axis is monitored for SBH. There can be several reasons for triggering STOP E (depending on the configuration): The safe speed monitoring has responded (MD 1361). The safe end position monitoring has responded (MD 1362). The user must find the cause and initiate appropriate measures. Applies as from SW 5.4 Failure in a monitoring channel Cyclic in SI monitoring cycle. If no Safety Integrated monitoring system is active, STOP F does not initiate a stop response, but displays the message "Failure in a monitoring channel". If SBH/SG, SE or SN are active, the drive is stopped with the stop response STOP A/B.
Scan Effect Explanation Remedy Note 300911 Scan Effect Explanation	Cyclic in SI monitoring cycle. The NC has stopped the drive with STOP E. After completion of the stop reaction, the drive remains under control, and the axis is monitored for SBH. There can be several reasons for triggering STOP E (depending on the configuration): The safe speed monitoring has responded (MD 1361). The safe end position monitoring has responded (MD 1362). The user must find the cause and initiate appropriate measures. Applies as from SW 5.4 Failure in a monitoring channel Cyclic in SI monitoring cycle. If no Safety Integrated monitoring system is active, STOP F does not initiate a stop response, but displays the message "Failure in a monitoring channel".
Scan Effect Explanation Remedy Note 300911 Scan Effect	Cyclic in SI monitoring cycle. The NC has stopped the drive with STOP E. After completion of the stop reaction, the drive remains under control, and the axis is monitored for SBH. There can be several reasons for triggering STOP E (depending on the configuration): The safe speed monitoring has responded (MD 1361). The safe end position monitoring has responded (MD 1362). The user must find the cause and initiate appropriate measures. Applies as from SW 5.4 Failure in a monitoring channel Cyclic in SI monitoring cycle. If no Safety Integrated monitoring system is active, STOP F does not initiate a stop response, but displays the message "Failure in a monitoring channel". If SBH/SG, SE or SN are active, the drive is stopped with the stop response STOP A/B.
Scan Effect Explanation Remedy Note 300911 Scan Effect Explanation	Cyclic in SI monitoring cycle. The NC has stopped the drive with STOP E. After completion of the stop reaction, the drive remains under control, and the axis is monitored for SBH. There can be several reasons for triggering STOP E (depending on the configuration): • The safe speed monitoring has responded (MD 1361). • The safe end position monitoring has responded (MD 1362). The user must find the cause and initiate appropriate measures. Applies as from SW 5.4 Failure in a monitoring channel Cyclic in SI monitoring cycle. If no Safety Integrated monitoring system is active, STOP F does not initiate a stop response, but displays the message "Failure in a monitoring channel". If SBH/SG, SE or SN are active, the drive is stopped with the stop response STOP A/B. Cross-comparison between NC and drive has revealed a difference, and STOP F has been initiated. Find the difference between the monitoring channels. The error code which indicates the cause appears as follows: • on 840C MD 303D Loignostics for STOP F • on 611D MD 1395 The meaning of the error code can be found in the SINUMERIK Safety Integrated documentation.
Scan Effect Explanation Remedy Note 300911 Scan Effect Explanation	Cyclic in SI monitoring cycle. The NC has stopped the drive with STOP E. After completion of the stop reaction, the drive remains under control, and the axis is monitored for SBH. There can be several reasons for triggering STOP E (depending on the configuration): • The safe speed monitoring has responded (MD 1361). • The safe end position monitoring has responded (MD 1362). The user must find the cause and initiate appropriate measures. Applies as from SW 5.4 Failure in a monitoring channel Cyclic in SI monitoring cycle. If no Safety Integrated monitoring system is active, STOP F does not initiate a stop response, but displays the message "Failure in a monitoring channel". If SBH/SG, SE or SN are active, the drive is stopped with the stop response STOP A/B. Cross-comparison between NC and drive has revealed a difference, and STOP F has been initiated. Find the difference between the monitoring channels. The error code which indicates the cause appears as follows: • on 840C MD 301: Diagnostics for STOP F • on 611D MD 1395
Scan Effect Explanation Remedy Note 300911 Scan Effect Explanation	Cyclic in SI monitoring cycle. The NC has stopped the drive with STOP E. After completion of the stop reaction, the drive remains under control, and the axis is monitored for SBH. There can be several reasons for triggering STOP E (depending on the configuration): The safe speed monitoring has responded (MD 1361). The safe speed monitoring has responded (MD 1362). The user must find the cause and initiate appropriate measures. Applies as from SW 5.4 Failure in a monitoring channel Reset key Cyclic in SI monitoring cycle. If no Safety Integrated monitoring system is active, STOP F does not initiate a stop response, but displays the message "Failure in a monitoring channel". If SBH/SG, SE or SN are active, the drive is stopped with the stop response STOP A/B. Cross-comparison between NC and drive has revealed a difference, and STOP F has been initiated. Find the difference between the monitoring channels. The error code which indicates the cause appears as follows: on 840C MD 301: Diagnostics for STOP F on 611D MD 1395 The meaning of the error code can be found in the SINUMERIK Safety Integrated documentation. It is possible that the safety-related machine data are no longer identical or that the SGEs do not have the same signal level (measure again or check in the SI service display). If no such error is found, an error may have oc- curred in the CPU, such as a corrupt memory cell. This error can be transient (remedied by POWER ON) or per-

Tolerance for safe operational stop exceeded

Cyclic in SI monitoring cycle.

POWER ON

	1.5.1 Alam description
300914	Safe speed exceeded Reset key
Scan Effect	Cyclic in SI monitoring cycle. The drive is stopped by the response configured in MD 1361. After completion of the stop reaction, the drive re-
Evolanation	mains under control, and the axis is monitored for SBH.
Explanation Remedy	The axis has moved faster than defined in MD 1331, i.e. the axis has exceeded the permissible speed limit. The user must find the cause and initiate appropriate measures.
Note	Applies as from SW 5.4
300915	Safe end position exceeded Reset key
Scan	In monitoring cycle.
Effect	The drive is stopped by the response configured in MD 1361. After completion of the stop reaction, the drive re- mains under control, and the axis is monitored for SBH.
Explanation	The axis has traveled beyond the end position entered in data MD 1334 and MD 1335.
Remedy	If no apparent operating error has occurred: Check the input value of the machine data, check the SGEs: of the 2 end positions, was the correct one selected? If MDs and SGEs are correct, inspect the machine for damage and repair the damage.
Note	Applies as from SW 5.4
300950	Axis is not safely referenced
Scan	In monitoring cycle.
Effect	No stop response was initiated. The alarm remains active, when the SN/SE functions are enabled, until the axis state "axis safely referenced" is attained.
Explanation	The standstill position stored before the machine was switched off does not match the actual position (reference position) detected on power–up.
	 This alarm requests the user to confirm the present actual position. The position should be established as follows Measure the position Travel to a known position
Remedy	If safe automatic referencing is not possible, the user must issue a user authorization for the new position with the softkey. This user authorization identifies the above position as safe, i.e. the axis state "axis safely referenced" is attained.
Warning	If the axis has not been referenced safely, and the user authorization is not active: • The safe cams are active but not yet safe • The safe and positions are not yet safe
Note	The safe end positions are not yet active Applies as from SW 5.4
11010	
200051	Teststen sunning
300951 Scan	Teststop running
Effect	In monitoring cycle. The pulses are deleted.
Lifect	 If, following the time configured in MD 1357 (time for checking pulse deletion), the positive acknowledgement of pulse deletion has not been detected, STOP A is triggered. If the pulse deletion is acknowledged internally in the drive within the configured time, a stop response is not initiated. The alarm remains active, on selection via SGE "test stop selection", until the selection is canceled.
Explanation	The test stop has been activated by the user by setting SGE "test stop selection". When the user cancels the "test stop selection" SGE, the alarm is deactivated.
Remedy	If STOP A was triggered, it is only possible to restart by POWER ON.
Note	Applies as from SW 5.4

301701	Limit value SG too large	POWER ON	
Scan	Power On		
Effect	The startup process is interrupted. The pulses remain disabled.		
Explanation		300 kHz.	
	Monitoring condition: MD1331 $\leq \frac{1}{\ddot{u}} * n_{max}$ with \ddot{u} = speed ratio		
Remedy	Check the input in MD 1331, correct if necessary and execute a POWER ON.		
Note	Applies as from SW 6		
301706	Parameterization of cam position invalid	POWER ON	
Scan	Power On		
Effect	The startup process is interrupted. The pulses remain disabled.		
Explanation	At least one of the cam positions parameterized and enabled via MD_SB_ENABLE contravenes to positions must not lie within the tolerance range around the modulo position.	the rule that cam	
	The tolerance range is defined as follows:		
	a) With inactive cam synchronization (MD 1301 bit 7=0): Upper modulo value – MD 1342 < cam position Lower modulo value+MD 1342 ≦ cam position		
	b) With active cam synchronization (MD 1301 bit 7=1): Upper modulo value – MD 1340 – MD 1342 > cam position Lower modulo value+MD 1342 ≤ cam position		
	Upper/lower modulo value= $\pm 737\ 280\ 000$		
Remedy	Check the parameterization of the cam positions MD 1336[0–3] and MD 1337[0–3] and the entry i rect if necessary and execute a POWER ON. Check the input in MD 1305, correct if necessary and execute a POWER ON.	in MD 1305, cor-	
Note	Applies as from SW 6		
Note	Applies as from SW 0		
301707	Parameterization module value for invalid	POWER ON	
Scan	Power On		
Effect	The startup process is interrupted. The pulses remain disabled.		
Explanation		1305 is not a	
Remedy	Check the modulo value for SN in MD 1305, correct if necessary and execute a POWER ON.		
Note	Applies as from SW 6		
301708	Actual value synchronization not allowed	POWER ON	
Scan	POWER ON		
Effect	The startup process is interrupted. The pulses remain disabled.		
Explanation	Actual value synchronization with drift/slip is selected in MD 1301: "Enable safety functions ". This with SBH/SG monitoring, for the purposes of which the absolute actual position is insignificant. Sa and/or cam monitoring is, however, selected as well.		

Remedy Deselect actual value synchronization with drift/slip or safe limit position and/or cam monitoring in MD 1301: "Enable safety functions".

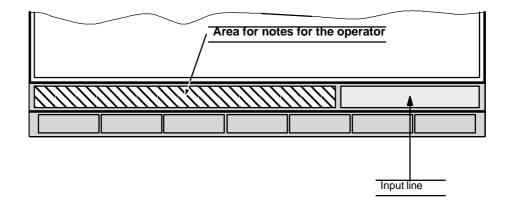
Note Alarm from SW 6.2

1–222

1.6 Dialog text

1.6.1 Notes for the operator

With many operator inputs, texts are displayed in the left two thirds of the input line for support and for error diagnostics.



1.6.2 Listing of dialog texts

All notes for the operator are listed in the following table in alphabetical order.

Dialog text	Appears with the following event	What must be done or What is wrong
BLOCK NOT AVAILABLE	When searching for blocks in the part program	—
BLOCK NUMBER TOO LARGE	Generating block number	Block number cannot be greater than N9999
BLOCK STRUCTURE WRONG	With "Correction block" function	Cursor is at the start of the wrong block
BLOCK TOO LONG	When editing part programs, a block must not be longer than 120 characters	Conclude block with "LF"
CHARACTER NOT ALLOWED	Taking over an input value (e.g. with the input key)	Input value has the wrong format
CHARACTER NOT AVAILABLE	When searching for characters in part programs	—
COMMENTS ERROR	Occurs when editing if the brackets do not match up	Check the number of brackets set
CYCLE DISABLE	When handling cycles (editing, copying, etc.)	Remove "Cycle disable" interface signal
CYCLE IN THE EPROM	Information while handling cycles	—
DATA TRANSMISSION RUNNING	Editing part programs	Stop interface

Dialog text	Appears with the following event	What must be done or What is wrong
DECIMAL POINT NOT ALLOWED	Taking over an input value (e.g. with the input key)	
DELETE DATA?	"Delete" key has been pressed	If pressed again the data area specified will be deleted
DIFFERENT PROGRAM TYPES	When copying or renaming part programs	Only identical program types (L to L, % to %, etc.) can be handled
DRIFT COMPENSATION DATA ERROR	With semi-automatic drift compensation	Repeat compensation
EDITING NOT ALLOWED	When editing part programs	Repeat input
ENTER PASSWORD	When trying to enter protected data	Enter password
FORMAT ERROR	Taking over an input value (e.g. with the input key)	The control can do nothing with the value in this position. See Operator's Guide.
FORMAT ERROR IN DISPLAY DESCRIPTION	Cannot occur with the user. (Only possible with the machine manufacturer during UMS testing.)	A format has been specified in the display description which does not agree with that to be displayed
GENERAL DATA ERROR	Taking over an input value (e.g. with the input key)	The value cannot be taken over. Taking over the value would cause an error: change value
GENERAL INPUT ERROR	Taking over an input value (e.g. with the input key)	The value was wrong. Change value
HELP NOT AVAILABLE	Operating the "Help" key	No help is available for the display selected
INPUT DISABLED	Taking over an input value (e.g. with the input key)	Operate keyswitch
INPUT ERROR (PROGRAM)	When editing part programs	The character selected cannot be entered in the part program
INPUT LINE OVERFLOW	Character input	Max. 25 characters
INTERFACE ASSIGNED	When starting data input/output	Selected interface is already operating
KEY NOT ALLOWED	Taking over an input value (e.g. with the input key)	Refers to input key and delete keys
KEYSWITCH MISSING	Selecting machine data tree or with general reset	Operate keyswitch
"MB" NOT CONFIGURED	When paging the menu tree	The menu block/tree is incorrectly configured
MD TRANSFER ERROR	Data error when fetching machine data	_
MDA CHANNEL ASSIGNED	MDA has already been started in another channel	Change channel or press "Reset"
MDA MEMORY OVERFLOW	In "MDA" mode	Max. 500 characters may be entered
NO CORRECTION BLOCK	With "Correction block" function	Correction block cannot be selected

Dialog text	Appears with the following event	What must be done or What is wrong	
NO RENAME FOR CYCLES	Renaming cycles is not possible		
NO VALUE ENTERED	Taking over an input value (e.g. with the input key)	Input value has the wrong format	
ONLY 1 PROG. NO. ALLOWED	With MOVE or RENAME or EXECUTE YES/NO, of a part program	_	
ONLY POSSIBLE AFTER "RESET"	When entering program numbers into the automatic basic display	The NC must be in the RESET state for safety reasons. Press RESET or wait until the current program is completed	
"OPERATOR PROMPT MACRO BLOCK" SEVERAL VALUES	When editing via screen forms using operator prompt macros	If several fields are bracketed together in the display, then only one of the values can be entered	
"OPERATOR PROMPT MACRO BLOCK" TOO LONG	When editing using the screen form with the aid of the operator prompt macros	Operator prompt macro has been incorrectly configured	
"OPERATOR PROMPT MACRO BLOCK" VALUE MISSING	When editing via screen forms using operator prompt macros	No value has been entered	
OVERSTORAGE ACTIVE	When overstoring	Wait until previous overstore operation has been completed	
PROGRAM ALREADY AVAILABLE	When opening part programs, copying, renaming	Select different number	
PROGRAM ERASE PROTECTED	Renaming part program number Opening Reading in via RS232C (V.24) if already present and being executed	Complete execution or reading in	
PROGRAM MEMORY FULL	Inputting part programs manually or via RS232C (V.24)	On appearance of the message programs must be deleted	
PROGRAM NOT AVAILABLE	Taking over a part program number during part program handling	Correct number	
PROGRAM NUMBER NOT ALLOWED	Part program handling	Change part program number	
PROGRAM PRESELECTION FORBIDDEN (MODE)	Selecting program for editing in MDA mode	Change mode	
PROGRAM PRESELECTION NOT ALLOWED	Part program selection during TEACH IN	Abort TEACH IN (RESET)	
SELECT PROGRAM	Something is to be entered in a part program	Select part program	
SOURCE PROGRAM DEFECTIVE	Appears when reading out a part program	A bit has flipped in the par program just read (parity error).	

Dialog text	Appears with the following event	What must be done or What is wrong
SPECIFY 2 PROGRAM NUMBERS	When copying or renaming part programs	—
STOP AXES	The actual axis value is to be read	Axis values must not change.
STOP PROGRAM	Editing the program being processed	Interrupt program (NC STOP)
TOO MANY CHARACTERS ENTERED	Taking over an input value (e.g. with the input key)	Input value has the wrong format
TOOL NUMBER NOT ALLOWED	With functions operating with tool offsets	e.g. PRESET with a rotary axis: In the PRESET display "0" must be entered for the tool offset number
RS232C (V.24) CHANNEL ALREADY IN RESET	On stop or stop all in display Data input/output	A RESET request has already been sent. When the softkey is pressed again it is ignored.
RS232C (V.24) CHANNEL NUMBER NOT CORRECT	When starting data input/output	The RS232C (V.24) interface number is too large or too small
WRONG AXIS SPECIFIED	With axis-specific functions (e.g. Preset)	Axis does not exist
WRONG DATA NUMBER	When deleting data	Data item (e.g. R parameter) with the number entered does not exist
WRONG G FUNCTION	With technology- dependent functions	Correct G function
WRONG MODE GROUP	For functions which are assigned to a mode group (e.g. channel selection)	Select an alternative mode group
WRONG PASSWORD	Password input	-
WRONG RS232C (V.24) CHANNEL NUMBER	Starting data output	The RS232C (V.24) interface number is too large or too small
WRONG VALUE ENTERED	When inputting into display screen forms (e.g. contour definition)	Change value
"—" NOT ALLOWED	Taking over an input value (e.g. with the input key)	Input value has wrong format
"=", "CR" IN WRONG PLACE	Taking over an input value (e.g. with the input key)	Input value has the wrong format
1ST NUMBER > 2ND NUMBER	Deleting data areas	The 1st number must be smaller than the 2nd
2ND DECIMAL POINT	Taking over an input value (e.g. with the input key)	Input value has the wrong format

END OF SECTION

2 Diagnostics on the PLC

2.1 Error numbers (ACCU 3 high byte, DB 1 DW 160)

General

The error number FEHLCODE gives a detailed coding of the cause of error.

The error numbers are hexadecimal and therefore correspond to the representation in the function:

AUSGABE ADR:AG,F0000

with which FEHLCODE and the additional error information can be read.

The error numbers and the additional information are also stored in the diagnostics DB (DB 1) DW 160–164.

If the PLC goes into the stop state with an error number identified by a W, a warm restart will be effected after the next RESET (unless cold restart or installation has been selected.

All other error numbers cause a cold restart.

If no error has occurred the error number is 00.

Error messages of the interpreter

Error messages of the interpreter		
01	Non-interpretable command *)	
02	Illegal parameter *)	
03	Data transfer into non-existent data (DB) *)	
04	Substitution error *)	
05	Call for a block that has not been loaded *)	
06	06 Call for a non-existent data block *)	
07	Segment not permitted with LIR/TIR *)	
08	Segment error in a block transfer command *)	
09	Overflow in block stack *)	
0A	Overflow in interrupt stack *)	
0B	Immediate system stop due to "STS" command *)	
0C	Stop request by user ("STP" command) *)	
0D	Processing delay *)	
0E	Call for an illegal OB (OB No. 039) *)	
0F	Call for a non-existent page (command "ACR") *)	

^{*)} Additional information is given on this error in additional fields (see Section 2.2)

Error messages on system startup

Cold restart			
27	MD 137:	Illegal address for OEM info bits ¹)	
28	Compress function ("Push block") interrupt ¹) *)		
l	Note: PLC General Reset required after this error; blocks can first be saved via the programmer		
29	MD8/9/10:	Impermissible number of channels/spindles/axes *)	
2A	Data loss		
2B	Installation of	NCK/MMC/COM requested	
2C	MD17:	Impermissible quantity of wait cycles for enabling the computer link user interface	
2D	MD18:	Impermissible user interface number for outputting a message to the host computer on synchronization	
2E	MD19:	Impermissible quantity of function nos. for core sequence initiation	
2F	MD20–29:	Impermissible function number for core sequences	
30	MD128:	Address 1st machine control panel too high (max. 120)	
31	MD129:	Address 2nd machine control panel too high (max. 120)	
32	Reserved		
33	MD error with	DMP assignment lists (overlapping) *)	
34	Interface-DMP incorrectly started (system start) *)		
35	Reserved		
36	Reserved		
37	Distributed interrupt byte does not exist *)		
38	Number of interrupt byte already exists (double addressing)		
39	Number for interrupt byte has been assigned more than once		
3A	Impermissible input value for number of the interrupt byte		
3B	Reserved		
3C	Reserved		
3D	Reserved		
3E	Reserved		
3F	Interrupt byte	declared more than once (with the same address) *)	
40	RAM user me	mory: Memory capacity too small for inserted EPROM submodules	
41	RAM user me	mory: Memory capacity set in MD too small for user program memory	
42	RAM user me setting	mory: Physical capacity of user program memory too small for machine data	
43	RAM user me	mory: Memory capacity set in MD too small for user data memory	
44	RAM user me setting	mory: Physical capacity of user data memory too small for machine data	
45	Invalid versior	n of interface DMP firmware *)	
46	I/O configurati	on: Impermissible number of interfaces plugged in	
47	I/O configurati	on: Multiple addressing for inputs *)	
48	I/O configurati	on: Multiple addressing for outputs *)	
W49	I/O modules c	hanged	
4A	Unassigned		

*) Additional information is given on this error in additional fields (see Section 2.2)

	Cold restart		
4B	System parameters: Incorrect ms time frame		
4C	System parameters: Incorrect 10 ms time frame		
4D	System parameters: Incorrect 100 ms time frame		
4E	System parameters: Incorrect MC5 time (programmer cannot be used for diagnosis in PLC)		
4F	Unassigned		
51	Impermissible input value for byte number of the alarm byte		
51	Byte number for alarm byte assigned more than once		
52	Alarm byte number specified but byte does not exist or impermissible machine control panel		
53	Irregular block type: PLM block not allowed in user program memory		
54	Irregular block type: C block not allowed in user program memory		
55	Synchronization error in EPROM basic program memory *)		
56	Synchronization error in EPROM user program memory *)		
57	Synchronization error in RAM user program memory *)		
58	Synchronization error in RAM user data memory *)		
59	Irregular block type in EPROM basic program memory *)		
5A	Irregular block type in EPROM user program memory *)		
5B	Irregular block type in RAM user program memory *)		
5C	Irregular block type in RAM user data memory *)		
5D	Summation error with RAM for OB, FB, DB, FX, SB, PB *)		
5E	Summation error with EPROM for OB, FB, DB, FX, SB, PB *)		
·			

Restart		
5F	Impermissible warm restart *)	
60	Check sum error in RAM for OB, FB, DB, FX, SB, PB *)	
61	Check sum error in EPROM for OB, FB, DB, FX, SB, PB *)	

Cold restart and/or warm restart				
62	No RAM user program memory available			
63	No user data memory available			
64	Operator panel input byte in impermissible area			
65	Operator panel output byte in impermissible area			
66	No synchronization pattern from master in cold restart *)			
67	No synchronization pattern from master in warm restart *)			
68	Process image of the inputs: impermissible value for delete limit			
69	Input is in retentive area of the process image			
6A	Process image of the outputs: impermissible value for delete limit			
6B	Output is in retentive area of the process image			
6C	Function URLADE not executed, submodule not inserted or empty ¹)			
6D	Error during function: Save user program on MMC hard disk ¹)			
6E	Machine data error equivalent to FB25 on the 850 *) (see special section)			
W 6F	EUs or DMP modules not switched on or incorrectly jumpered (rotary switch) *)			

*) Additional information is given on this error in additional fields (see Section 2.2)

Operational and

user errors

Dynamic system monitoring		
70	Check sum error in RAM for OB, FB, DB, FX, SB, PB *)	
71	Check sum error in EPROM for OB, FB, DB, FX, SB, PB *)	
72	RAM error in user data memory	
73	RAM error in system data memory	

Cyclic system monitoring	
74	NC (master) CPU in the system failed
75	PLC CPU in the system failed
76	Reserved for 840
77	Reserved
W 78	PLC STOP by request from programmer
W 79	PLC STOP by operating mode switch
W 7A	Reserved for 840
W 7C	No ready signal from interface DMP or interface PLC or 135 WD
	Interface may be blocked
	Connector missing

Error messages from interrupt routines

System errors	
80	Division error
81	Overflow error
82	"Array Bounds" error
83	Incorrect OP Code
84	Error in ESC-OP code
85	Non-interpretable interrupt (NII)
86	Error in the save routine (SAVE-UP)
87	Stack overflow
88	Semaphore buffer overflow
89	Semaphore buffer not reached
8A	Addressing error by access to an input/output not existing in the process image

Timeouts	
90	Unassigned
91	Unassigned
92	Timeout with buffered access to link/local bus *)
93	Timeout with system program processing *)
94	Timeout with LIR/TIR commands *)
95	Timeout with TNB/TNW commands *)
96	Timeout with LPB/LPW/TPB/TPW commands *)
97	Timeout with a substitution command *)

*) Additional information is given on this error in additional fields (see Section 2.2)

Timeouts	
98	Timeout with transfer in/out (see errors B0 and B1)
99	Timeout cannot be interpreted with active interpreter *)
9A	Timeout with processing a function macro *)
9B	Timeout with processing high-level language blocks *)
9C	Timeout with access to pabe commands LB CB, LB CW, LB CD, TB CB, TB CW, TB CD

W A0 Tra	ansfer error to an expansion unit
W A1 Ove	vertemperature in an expansion unit or bouncing enable input with SIMATIC I/O devices
W A2 Inte	erface DMP outputs a command output disable during operation
W A3 Tra	ansmission link to EU 185U (SIMATIC EU) has failed
W AF Me	essage "OUTDS" from power supply unit
W B0 Inp	but module failed or changed and STOP set for PLC for this module via MD $$ *)
W B1 Out	tput module failed or changed and STOP set for PLC for this module via MD $$ *)

Cycle time monitoring	
C0	Cycle time exceeded
C1	Cycle time exceeded; FB12 called more than twice per cycle

Error messages when using the PLM and C high-level languages

HLL call in the interpreter	
D0	Unknown type identifier in parameter declaration of the FB called
D1	Illegal type identifier block
D2	Unknown code in the parameter block of the FB called: input parameter
D3	Unknown code in the parameter block of the FB called: output parameter

HLL_HLL function	
D4	Unknown pseudo parameter in STACK
D5	Block not available
D6	HLL block not in line with paragraph
D7	Block called is not a HLL block

HLL_ADB function	
D8	DB to be opened in HLL: wrong pseudo parameter
D9	DB to be opened not available
DA	DB to be opened not in line with paragraph

^{*)} Additional information is given on this error in additional fields (see Section 2.2)

2 Diagnostics on the PLC

2.1 Error numbers (ACCU 3 high byte, DB 1 DW 160)

HLL_MACRO function	
DC	Core to be called not available or cannot be called by HLL

	HLL_STOP function
DD	Sytem STOP by HLL user *)

HLL_S5 function	
DE	Unknown pseudo parameter in STACK
DF	S5 block called not available
E0	S5 block not in line with paragraph
E1	Block called is not a S5 block

	Other operational and user errors
F7	M decoding: byte number for DB30>63
F8	PROTES system error: error with P link *)
F9	Interrupts from interrupt-generating I/O devices not acknowledged by OB2

Errors in addressing decoding data blocks		
FA	Decoding data block not available	
FB	Data block word length without header not divisible by 3	
FC	Wrong number of decoding units	
FD	Decoding data block too short	
FE	Assignment list DB99 not available or too short	

Error message with function macros				
FF	FF Group error with function macros *)			
	Display of individual errors with function macros is via ACCU1 and ACCU2. The ACCUs can be read out at the programmer via OUTPUT ISTACK.			
	For more details on errors see FB descriptions.			

^{*)} Additional information is given on this error in additional fields (see Section 2.2)

2.2 Additional error information (ACCU 3 low byte, DB 1 DW 161–163)

For all errors marked with an *) in the above list, further information is given in the additional fields. This information can be read out using the programmer from addresses F0001 to F0004 or from DW161 to 164 in the diagnostics DB (DB1).

In the additional error information marked by ++) the representation of F0001 - F0004 on the operator panel and in DB1 high/low is swapped.

 This information is summarized below:

 Address
 Contents/Designation

Error No. Address		Contents/Designation
01	F0000	01: Error number incorrect MC5 operation code
	F0001	OB number where incorrect operation code occurred
	F0002	—
	F0003	_
02, 03, 04,	F0000	Error number of interpreter
05, 06, 07, 08, 09, 0E,	F0001	High byte: Identifier for preceding command
08, 09, 0L, 0F	F0001	Low byte: OB number where the error occurred
	F0002	Operation code of the MC5 command which led to error
	F0003	Parameter of MC5 command in BCD code ++) Identifier for preceding command:
		0: No command modification
		1: Preceding command was B MW, B DW, B BS or substitution command
0A	F0000	0A: Overflow in interruption stack
	F0001	OB number where overflow occurred
	F0002	—
	F0003	—
0B	F0000	0B: Stop caused by STS command
	F0001	OB number where STS occurred
	F0002	_
	F0003	
0D	F0000	0D: Error number processing time delay
	F0001	OB number where processing time delay occurred
	F0002	(
	F0003	_

_

...

Error No.	Address	Contents/Designation
28	F0000	28: Compress function interrupted
	E0004	The interrupted block is pushed completely (if possible) during runup
	F0001	0000: Block completely pushed
	F0000	0100: Interrupted block could not be completely pushed (s. F0002)
	F0002	where F0001 = 0100:
		nntt: Block number and block type
		nn: Block number (hexadecimal) tt: Block type (hexadecimal)
		tt: Block type (hexadecimal) 01 = DB, 02 = SB, 04 = PB, 05 = FX, 08 = FB, 0C = DX,
		10 = OB, 02 = 3B, 04 = PB, 05 = PA, 06 = PB, 0C = DA, 10 = OB +++)
29	F0000	29: MD8/9/10: Impermissible number of channels/spindles/axes
	F0001	01: MD8: Too many channels
		02: MD9: Too many spindles
		03: MD10: Too many axes
33	F0000	33: MD error in DMP assignment lists or error in the DMP configuration DB/DX
	F0001	00: Error in DMP assignment lists (overlapping)
		04: I/O type identifier: DMP I/O device configuration does not correspond to configuration DB/DX
		Otherwise: Error in the configuration lists DB/DX Number of the DB/DX from MD 136 (BCD format)
	F0002	When F0001=4: 0I or 0Q identifier input/output
		Otherwise: Number of the incorrect/missing data word within the configuration DB/DX (BCD format)
	F0003	When F0001=4: Byte number (BCD format)
		Otherwise: Unassigned ++)
34	F0000	34: Interface DMP/interface PLC not started correctly or EU incorrectly jumpered
	F0001	00: Interface DMP/interface PLC not started correcity (system startup)
		01: Identifier for incorrect EU jumpering
	F0002	Number of the interface module (at F0001=01)
	F0003	Submodule number (when F0001=01)
	F0004	Line number (when F0001=01) ++)
37	F0000	37: Distributed interrupt byte not available
	F0001	Byte number (BCD format)
	F0002	—
	F0003	++)

Error No.	Address	Contents/Designation
3C	F0000	3C: Error number MD double addressing inputs
	F0001	Group number (BCD format)
	F0002	—
	F0003	—
3D	F0000	3D: Error number MD double addressing outputs
	F0001	Group number (BCD format)
	F0002	—
	F0003	—
3E	F0000	3E: Error number output group per MD for several PLCs
	F0001	Group number (BCD format)
	F0002	—
	F0003	—
45	F0000	45: Error number illegal version of interface DMP firmware
		Number of interface module
	F0001	Illegal (fitted) firmware interface-DMP
	F0002	Required firmware interface-DMP ++)
	F0003	
47	F0000	47: Error number double addressing inputs
	F0001	Byte number (BCD format)
	F0002	—
	F0003	—
48	F0000	48: Error number double addressing outputs
	F0001	Byte number (BCD format)
	F0002	—
	F0003	—
49	F0000	49: Error number modification of I/O modules
	F0001	3C: Changed address location of I/O byte
		00: I/O failure
	F0002	0I or 0Q identifier input/output
	F0003	Byte number (BCD format)
55, 56, 57,	F0000	Respective error number
58, 59, 5A, 5B, 5C, 5D,	F0001	Segment address of fault block
5E, 60, 61, 70, 71	F0002	Offset address (byte-oriented) of fault block (segment and offset point to the synchronization pattern) ++)
10,11	F0003	

2.2 Additional error information (ACCU 3 low byte, DB 1 DW 161-163)

Error No.	Address	Contents/Designation
5F		I/O failure during the cycle or a set cold restart because of IP/WF modules (MD 6049, bit $1 = 1$) causes PLC to stay in the stop state after the first RE-SET. A warm restart gives the described error; the cold restart set in the machine data prevents a warm restart from being executed and message 5FH appears (warm restart not allowed). After repeating RESET, the cold restart set in the MD is executed together with a redefinition of the I/Os.
		If one of the modules fails on Power off, the PLC executes a cold restart and goes into cyclic operation; the failed module is ignored.
	F0000	5F: Error number illegal warm restart
	F0001	00: No entry in ISTACK or power supply failure not only reason for interruption or PLC machine data 6049 bit 1 (cold restart bit) set and warm restart initiated by programmer or PLC mode selector switch.
		3C: Changed address location of I/O byte, otherwise I/O type identifier:
		01: Centralized I/Os, TPx, LPx
		03: 16-bit link
		04: DMP
	F0002	0I or 0Q identifier input/output
	F0003	Byte number (BCD format) ++;
6C ¹⁾	F0000	6C: Error when booting the user program
	F0001	0001: Memory dump (file on MMC hard disk) does not exist or is empty
		0002: Illegal user program file
		000B: ICODE error
		000C: ADS error (e.g. no communication with MMC) ++;
6D ¹⁾	F0000	6D: Error while saving the user program
	F0001	0001: Scare not possible (reason see F0002)
		000A: System error
		000B: ICODE error
		000C: ADS error (e.g. no communication with MMC)
	F0002	When F0001 = 0001:
		0001: User program memory empty
		0002: Boot not completely finished or data loss ++;

¹⁾ SW 3 and higher

Error No.	Address	Contents/Designation	
6F	F0000	6F: Error number I/O fault on start-up	
	F0001	Type of link:	
		03: 16-bit	
		04: DMP	
	F0002	Number of the interface module	
	F0003	EU number or DMP module number	
	F0004	Line (MPC) number for DMP	++)
92	F0000	92: Error number timeout for buffered access to link (local bus	
	_	Bus address (segment), where timeout occurs	
	F0001	Bus address (offset), where timeout occurs	
	F0002	Type identifier of the timeout **)	++)
	F0003		
93	F0000	93: Error number timeout with system progr. processing	
	F0001	CS when timeout occurs	
	F0002	IP when timeout occurs	
	F0003	Type identifier of the timeout **)	++)
94	F0000	94: Error number timeout with LIR/TIR	
	F0001	OPCODE command	
	F0002	Offset address	
	F0003	Segment number	++)
95	F0000	95: Error number timeout with TNB/TNW	
	F0001	OPCODE command	
	F0002	Offset address	
	F0003	Segment number -	++)
96	F0000	96: Error number timeout with LPB/LPW/TPB/TPW	
	F0001	OPCODE command	
	F0002	Specification of input or output	
	F0003	Byte number (BCD format)	++)
99	F0000	99: Error number Error number timeout not interpretable when interpret	er
	F0001	active	
	F0002	CX when timeout occurs	
	F0003	IP when timeout occurs	
		Type identifier of the timeout **)	++)
9A	F0000	9A: Error number timeout when processing a function macro	
	F0001	OPCODE of the command that called the function macro	
	F0002	Command parameter (with FX only, otherwise 0000)	
	F0003	Type identifier of the timeout **)	

^{**)} Type identifier of timeout: 0001 = Internal timeout 0002 = Link bus timeout 0003 = Local bus timeout

2.2 Additional error information (ACCU 3 low byte, DB 1 DW 161-163)

Error No.	Address	Contents/Designation
9B	F0000	9B: Error number timeout when processing high-level language
	F0001	CS when timeout occurs
	F0002	IP when timeout occurs
	F0003	Type identifier of the timeout **)
	F0004	Identifier indicating whether DB has been opened
		0000: DB opened
		0001: No DB opened (in this case timeout is initiated on access to timeout DB)
A0	F0000	Error number A0
	F0001	I/O type identifier
		01: Centralized I/O devices, TPx, LPx
		03: 16-bit link
		04: DMP
	F0002	0I or 0Q identifier inputs/outputs
	F0003	Byte number (BCD format) ++)
B0, B1	F0000	Error number B0/B1
	F0001	I/O type identifier
		01: Centralized I/O devices, TPx, LPx
		03: 16-bit link
		04: DMP
	F0002	0I or 0Q identifier inputs/outputs
	F0003	Byte number (BCD format) ++)
		In compact terminal blocks, it is not possible to enter the individually defective module in the error fine coding (the terminal block always fails as a complete unit); i.e. the first defective byte (the byte with the lowest address) found in the image is always the one given in the error fine coding. If the terminals are mixed (inputs and outputs), this is always an input byte.
DD	F0000	DD: Error number system STOP by HLL user
	F0001	User STOP number
	F0002	HLL call address (offset)
	F0003	HLL call address (segment)
FF	F0000	FF: Group error with function macro
	F0001	Current OB No. (No. of processing level)
	F0002	_
	F0003	—

^{**)} Type identifier of timeout: 0001 = Internal timeout 0002 = Link bus timeout 0003 = Local bus timeout

PLC machine

data test

- 7. The machine data test is performed in the code restart branch.
- 8. If the machine data are invalid, the group error number 110D (6EH) is transferred in the error field (address F0000 with programmer, cell FEHLCOD for system program). The detailed error identifiers for each test are entered in the additional error field (address F0001 with programmer, cell EADOPAD + 1 for system program).
- 9. Detailed error identifiers

Address		_
F0000	F0001	Error
	0	Reserved
	3	Reserved
	4	Reserved
	5	Reserved
	6	Reserved
	7	PLC MD for error and operational messages (channel-specific) set
	8	PLC MD for error and operational messages (spindle-specific) set
	9	PLC MD for error and operational messages (axis-specific) set
	10	PLC MD for M decoding with extended addresses set. At least one decoding list is missing.
	11	PLC MD "1st machine control panel" set – input missing
6E	12	PLC MD "2nd machine control panel" set – input missing
	13	Reserved
	14	Reserved
	15	PLC MD "1st machine control panel" set – output missing
	16	PLC MD "2nd machine control panel" set – output missing
	17	Reserved
	18	Reserved
	19	PLC MD for error and operational messages (DB58) set
	20	Reserved
	21	Reserved
	22	Reserved
	23	Reserved

Synchronization error on power-up

Address		
F0000	F0001	Error
66	1	Cold restart: synchronization error master CPU
67	1	Restart: synchronization error master CPU

Error in programmer link

This error is an internal software error.

Address		
F0000	F0001	Error
	0100	Error on fetching a receive buffer
	0200	Error on returning a receive buffer
	0300	Error on reserving a transmit buffer
F8	0400	Error on transmitting a receive buffer
	0500	Reserved
	0600	ADS interface between PLC and IF PLC faulty

END OF SECTION

3 Error Display on CPU

Errors that prevent normal operation of the PLC or the IF PLC, are displayed by a flashing LED on the front panel of the module in question.

Error list of the PLC

LEDs for PLC		Meaning (SINUMERIK 840C)			
Steady light (green only)		PLC cyclic mode			
Steady light (red only)		PLC in STOP state			
Steady light (red and	green)	OVERALL RESET necessary (initial power-up or data loss)			
Light flashing (red)	once	Error on cross-check sum over system program submodule			
	3 times	Timer 0 error (process-internal timer) or watchdog error			
	4 times	SW3: Module is a PLC 135 WB (can no longer be used)			
	5 times	Access to link RAM not possible			
	6 times	Error with test access to link RAM			
	7 times	SW1 and SW2: Error in system initialization program (synchronization pattern)			
		SW3: No communication with MMC			
	9 times	SW3: Error when booting			
	10 times	1 ACOP error (group error)			
	11 times	IF PLC cannot be addressed from PLC			
	12 times	RAM of the IF PLC defective (program memory or CPU RAM)			
	13 times	Dual port RAM of the IF PLC defective			
	14 times	ADS link to the NC defective			
	15 times	ADS link to the IF PLC defective			
	16 times	ADS link (reserved); SW3 and higher: ADS link to MMC defective			
	17 times	ADS link (reserved)			
LED for IF P	PLC	Meaning			
Steady light (green or	nly)	IF PLC in cyclic operation (no error), MPC transmission running			
		IF PLC in the STOP state			
Steady light (red only		RAM of the IF PLC defective (CPU-RAM)			
Light flashing (red)	12 times	Dual port RAM of the IF PLC defective			
	13 times	No MPC transmission, processor running			
LED off					

Note

If the PLC 135 WB2 is used, the LEDs for the PLC and IF PLC are situated on the PLC 135 WB2 or interface PLC module. If the PLC 135 WD is used, all the LEDs are situated on the front panel of this module.

Error display on the MMC CPU

Figure	Meaning		
0	Driver not loaded		
1	Driver loaded but ADS power-up not yet performed		
2	Jump ADS interface power-up		
3	ADS interface power-up, MMC waits for '0' from NC		

Figure	Meaning
4	ADS interface power-up, MMC waits for '1' from NC
5	ADS interface power-up state
6	ADS interface power-up state
7	Interface active (OKAY)
8	MMC powered without NC
9	State which causes removal of the driver

Error detection NCK CPU The cause of errors in the NCK area are displayed on the 386 NCK CPU as far as possible by the flashing rhythm of the red LED at the front of the NCK CPU. On the 486 CPU, these error detections are now displayed on the 7-segment display at the front of the CPU module (2 digits, both numbers alternating). If the NC continues to run and simply intends to indicate failure of the link to the MMC, this is still signalled by the red LED flashing 11 times. In the case of errors designated by R! it is essential to read out from the alarm log of the MMC which register contents of the NCK CPU were logged at the time of failure (this makes it much easier to identify the cause of error).

Error o	code	Cause
1		The selected boot bank (switch position on the 486 CPU) is either not programmed or incorrectly programmed. Switch position 0 must always function otherwise the module is defective.
2		DRAM error on NCK CPU, defective during memory test after Power On
4	!R	Parity error in the DRAM
7	!R	Undefined NMI
8	!R	NMI caused by push button on CSB or CPU (486) or V24 (486)
9	!R	NMI caused by timeout (CPU local)
10	!R	NMI caused by timeout on link or local bus
11		Failure of link to the MMC (this is indicated simply by flashing, also on 486 CPU)
14	!R	NC processor exception (commonly known as software crash)
15	!R	Internal hardware fault
16		Boot transfer error (ADS transport)
17		Boot transfer error (I code protocol)
18		Faulty file booted (OMF format)
19		Faulty file booted (illegal address area)
20		Wrong file started as last in the loading list (no starting information)
21		Link area between boot EPROM and loaded system was illegally overwritten (presumably software error in the loaded system program). Remedy: Reboot

END OF SECTION

4 Errors with Function Macros

ACCU 1	ACCU 2	Error	Error description	
(FB No.)	(Error No.)	occurred at		
11		Setting up data		
	1	blocks	DB No. impermissible	
	2		DB No. > 255	
	3		Specified DW No. < 0	
	4		Length of DB to be set up is not the same as the length of the DB already in the PLC	
	5		Memory space in the PLC no longer sufficient	
	6		Existing DW No. > 255	
	7		DB No. = 0	
	8		DB type different from DB or DX	
12	1	Retriggering of cycle time monito- ring	PLC Stop with error detection 0C1H on 3rd call of FB12 within one PLC cycle	
52		Block transfer		
	1		Illegal mode	
	2		Number of DWs to be transferred > 127	
	3		Number of DWs to be transferred < 0	
	4		Segment No. of 8-bit memory < 1 or > 13	
	5		Segment No. of 16-bit memory < 1 or > 13	
	6		Offset of 1st DW in 8-bit memory > 7FFFH	
	7		Offset of 1st DW in 16-bit memory > 7FFFH	
	8		Selected 8-bit memory area exceeds lower segment limit (not with segment Nos. 6, 10, 11,12)	
	9		Selected 16-bit memory area exceeds lower segment limit (not with segment Nos. 6, 10, 11,12)	
60		Block transfer		
	1		Number of DWs to be transferred > 2043	
	2		Number of DWs to be transferred = 0	
	3		Target DB No. = 0	
	4		Target or source DB not available	
	5		Target DB too short	
	6		Target DB in EPROM	
	7		Source DB too short	
	8		Incorrect TYQU parameter	
	9		Incorrect TYZI parameter	

ACCU 1	ACCU 2	Error	Error description	
(FB No.)	(Error No.)	occurred at		
61		Read NC data		
	v0		ANZ > 1 not permitted	
	v1		NSBY not permitted	
	v2		DB missing or DB No. not permitted or	
	v3		MW not permitted	
	v4		Data type not permitted	
	v5		*ANZ = 0 or > 128	
	v6		Reading / writing not permitted Number format not permitted	
	v7		Value 3 for ZOA or ZOFA not equal or 1	
	v8		Type data target/data source in PLC not permitted	
62		Write NC data	See FB 61 (reading NC data)	
65		Transfer flags \rightarrow		
	1	flag stacks	Stackpoint overflow	
66	4	Transfer flag stack \rightarrow flags		
	1	-	Stackpoint not reached	
67		Transfer machine control panel		
	2	signals \rightarrow DB	Parameter axis No. > 30	
	1	axes	PLC machine data not set for signals from/to axis	
68		Aperiodic user		
	1	program call	Parameter tool < 0	
69		G decoding		
	1		Channel number not permitted	
	2		G group incorrect	
	3		PLC MD: signals from/to NC channel or signals from NC channel not set	
70		Transfer interfa-		
	1	ces DB to I/Q/F	Source or target type incorrect (illegal ASCII character)	
	6		Source DB does not exist in PLC	
	2 3		Parameter limits of source or target parameter not re- ached or exceeded	
	5		Source or target DB too short	
	4		Parameter limit of flag area exceeded	
	5		PII or PIQ limits exceeded	
	6		Illegal source or target parameter type (not I, Q, F)	
	7			

		F	Emer des 141
ACCU 1 (FB No.)	ACCU 2 (Error No.)	Error occur- red during	Error description
71		Transfer interface DB to I/Q/F (see FB 70)	
72	1	Transfer NC channel to DB channel-specific signals	Channel address not permitted
73	1	Transfer DB channel-specific signals to NC channel	Channel address not permitted
74	1	Transfer spindle to DB spindle- specific signals	Spindle address not permitted
75	1	Transfer DB spindle-specific signals to spindle	Spindle address not permitted
76	1	Transfer axis to DB axis-specific signals	Axis address not permitted
77	1	Transfer DB axis- specific signals to axis	Axis address not permitted
78	1	Transfer machine control panel signals \rightarrow	PLC machine data not set for signals from/to channel PLC machine data not set for signals from/to spindle
	2	channels/spindles	Parameterized channel No. or spindle No. too large
70	3	Transform	
79	1	Transfer machine control panel signals \rightarrow DB	PLC machine data not set for signals from/to axis Number of parameterized axes > 30
	2	axes	
88		Mode lamp	
	1		PLC MD signals from/to channel not set
	2		Parameterized channel No. >4
89		Reading of block	
	1	start address	Block type not permitted
	2		Address list does not exist
	3		Address list insufficient
113		Symmetrical tool search	No messages

END OF SECTION

4 Errors with Function Macros

5 Parameterization Errors Spindle/Axis



The Safety Integrated service data are described in the SINUMERIK Safety Intergrated documentation (Description of Functions).



The Service numbers can be found under DIAGNOSIS in the Service display Axes/Spindles menu.

Service			Remedy						
number	Significance		General		Axis		indle		
	Parameterization errors spindle/axis								
300	Sampling ratio incorrect	MD	155 160 163 168	MD	1396*	MD	466*		
	and/or with SW 5.4 and higher: The monitoring cycle set for Safety Integrated via MD 40010 is not a multiple of the position control cycle for this axis.			MD 4	0010	MD 4	0010		
301 to 307	(reserved)								
308	Incorrect increment weighting			MD	364* 368* 1208* 1212*		466* 456* 524* 468*		
309	Incorrect actual-value resolution			MD	1116* 1204*		458*		
310 311	(reserved)								
312	 a) Error in encoder speed ratios (MD value = 0) b) Speed ratios not 1:1 for axis with di- stance-coded measuring system 			MD to MD to	3032* 3060* 3064* 3092*	MD to MD to	2400* 2407* 2408* 2415*		
313	(reserved)								
314	Illegal servo gain K _v factor			MD	252* 260* 256*	MD to	435* 442* 468*		
315	(reserved)								
316	Illegal modulo value/axis is not a rotary axis			MD	344* 564*				
317 ¹⁾	Position control cycle LA/LS is not the same Position control cycle FA/FS			MD	1396*	MD	466*		
318 ¹⁾	Incorrect LA/LS/FA/FS number parameterized								

1) SW 3 and higher

Service	Significance	Remedy					
number		General		Axis		Spindle	
319	Illegal maximum speed (scaling overrun)			MD	264* 256* 268* 260* 1736*	MD to MD to	403* 410* 419* 426* 468* 2522*
320	(reserved)						
321	Feedforward control parameterization incorrect			MD	312* 1124* 1260*	MD	465*
322	Incorrect clock cycle setting	MD	168*				
323	Illegal position control resolution 1)			MD	1800*	MD	524*
324	Incorrect C axis assignment: (axis does not exist) no spindle encoder available ²⁾			MD	200*	MD	400* 461* 520*
325	Position control sampling time for C axis ≠ position control sampling time for spindle			MD	1396*	MD	466*
326	Incorrect measuring gear			MD	364* 368* 1208* 1212*	MD	455* 456* 524*
327	Measuring systems 1 and 2 of an axis are assi- gned to one distance-coded linear scale or an absolute encoder has also been defined. SW5 and higher: An EnDat absolute encoder without zero marker has been defined.			MD Bit Bit	1808* 4 5		
328	 On reparameterization of the machine data of the QEC, invalid values have been found. Possible causes are: The characteristic of the conventional QEC has been incorrectly parameterized. The MD 1244* must be less than MD 1248*. The MD 1248* must be less than 100 x MD 1252*. Internal formats have been exceeded with the characteristic parameterization. In the neural QEC, the following errors have been found. The measuring time MD 1368* must not be 0. The neural QEC has been activated (MD 1812*, bit 0 = 1) although there is no valid parameterization of the function parameters. This can also occur at POWER ON if the person responsible for installation and start-up has forgotten to save to a boot file. 			MD	1244* 1248* 1252* 1368* 1376* 1812*	MD Bit 0	1368* 1376* 1812*

1) or position control resolution (spindle) = position control resolution (axis)

2) or mode group (spindle) = mode group (axis)

Service			Rer	nedy	Remedy				
number	Significance	General	A	xis	Spi	indle			
329 (SW 3 and higher)	Errors in setpoint/actual value assignment. Double assignment of measuring circuit input/ output.		MD Bit 2	200* 384* 1388* 1824*	MD Bit 2	400* 460* 522*			
	and/or With SW 5.4 and higher: The measuring circuit connection (MD 4100*) allocated to SI has al- ready been assigned to another axis/spindle. Note: If SI is operated with an encoder, the se- cond measuring circuit can no longer be alloca- ted freely.		MD	4100*	MD	4100*			
330 (SW 4 and higher)	 Invalid values have been entered in the machine data for Master/Slave mode (MD 1336*/2700* oder 1340*/2701*): The axis/spindle entered there does not exist. A rotary axis has been assigned to a linear axis or vice versa. Only the following are allowed: 2 rotary axes or 2 spindles or 2 linear axes or 1 rotary axis to a spindle. In a specific/C-axis combination, different axes/spindles have been assigned. An axis has been entered in the MD 1340*/2701*. The entered axis/spindle has a different position controller cycle. Parameterized axis/spindle is contained in a different mode group 		MD	1336* 1340*	MD	2700* 2701*			
331 (SW 5.4 and higher)	Errors have occurred during conversion of SI-MD.		tion in	4184* to 4196* 4200* to 4244* 4248* to 4260* 4180* nate deta the SIS EEN (ser).	SERVI	CE			

END OF SECTION

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