

FA 601K
PARAM

ERRORS

APPENDIX G

SEQUENTIAL MACHINE PARAMETER LIST

P0	Communications baudrate (110, 300, 600, 1200, 2400, 4800, 9600)	Section 3.3.6
P1	Communications data bits (7/8)	Section 3.3.6
P2	Parity. (1=Odd, 2=Even)	Section 3.3.6
P3	Stop bits. (1/2)	Section 3.3.6
P4	Feedrate Override active in G00. (No/Yes)	Section 3.3.9
P5	Mains (AC) frequency. (50/60)	Section 3.3
P6	Theoretical (1) or real (0) display	Section 3.3
P7	Maximum spindle speed for RANGE 1. (0..9999 rpm)	Section 5.1
P8	Maximum spindle speed for RANGE 2. (0..9999 rpm)	Section 5.1
P9	Maximum spindle speed for RANGE 3. (0..9999 rpm)	Section 5.1
P10	Maximum spindle speed for RANGE 4. (0..9999 rpm)	Section 5.1
P11	The machine has a W axis. (0= No, X/Y/Z=Yes)	Section 3.3.1
P12	Continuous (N) or pulsating (Y) axis JOG	Section 3.3.7
P13	Measuring units. 0= mm, 1= inches	Section 3.3
P99	Language. (0= Spanish, 1= German, 2= English, 3= French, 4= Italian)	Section 3.3
P100	Sign of the X axis analog output <i>WHICH WAY PROB. IS MOVING MATERIAL</i>	Section 4.
P101	Counting direction of the X axis <i>DETERMINE COUNTING</i>	Section 4.
P102	X axis jogging direction <i>JOG DIRECTION</i>	Section 4.
P103	X axis feedback (counting) resolution	Section 4.1
P104	Dwell between Enable and analog output for the X axis. (N= No, Y=Yes)	Section 4.2
P105	Continuous control of the X axis. (N= No, Y=Yes)	Section 4.2
P106	Type of feedback signal for the X axis. (N= Square, Y=Sine)	Section 4.1
P107	X axis positive travel limit	Section 4.3
P108	X axis negative travel limit	Section 4.3
P109	X axis leadscrew backlash (0..255µm)	Section 4.9
P110	X axis maximum programmable feedrate	Section 4.4
P111	X axis G00 feedrate	Section 4.4
P112	1st home searching feedrate for the X axis	Section 4.6
P113	Additional analog pulse for the X axis. (1=2.5 mV)	Section 4.9
P114	Proportional gain K1 for the X axis	Section 4.5
P115	Gain break point for the X axis	Section 4.5
P116	Proportional gain K2 for the X axis	Section 4.5
P117	Minimum X axis analog. (1=2.5mV)	Section 4.2
P118	In-position zone (dead band) for the X axis. (0..255µm)	Section 4.2
P119	X axis home coordinate	Section 4.6
P200	Sign of the Y axis analog output	Section 4.
P201	Counting direction of the Y axis	Section 4.
P202	Y axis jogging direction	Section 4.
P203	Y axis feedback (counting) resolution	Section 4.1
P204	Dwell between Enable and analog output for the Y axis. (N= No, Y=Yes)	Section 4.2
P205	Continuous control of the Y axis. (N= No, Y=Yes)	Section 4.2
P206	Type of feedback signal for the Y axis. (N= Square, Y=Sine)	Section 4.1
P207	Y axis positive travel limit	Section 4.3
P208	Y axis negative travel limit	Section 4.3
P209	Y axis leadscrew backlash (0..255µm)	Section 4.9
P210	Y axis maximum programmable feedrate	Section 4.4
P211	Y axis G00 feedrate	Section 4.4
P212	1st home searching feedrate for the Y axis	Section 4.6
P213	Additional analog pulse for the Y axis. (1=2.5 mV)	Section 4.9
P214	Proportional gain K1 for the Y axis	Section 4.5
P215	Gain break point for the Y axis	Section 4.5
P216	Proportional gain K2 for the Y axis	Section 4.5
P217	Minimum Y axis analog. (1=2.5mV)	Section 4.2
P218	In-position zone (dead band) for the Y axis. (0..255µm)	Section 4.2

OP
MODE

9

1

8025 GP

YD1B5603020000

8025 MK

YD1B1603020000

P300	Sign of the Z axis analog output	Section 4.
P301	Counting direction of the Z axis	Section 4.
P302	Z axis jogging direction	Section 4.
P303	Z axis feedback (counting) resolution	Section 4.1
P304	Dwell between Enable and analog output for the Z axis. (N= No, Y=Yes)	Section 4.2
P305	Continuous control of the Z axis. (N= No, Y=Yes)	Section 4.2
P306	Type of feedback signal for the Z axis. (N= Square, Y=Sine)	Section 4.1
P307	Z axis positive travel limit	Section 4.3
P308	Z axis negative travel limit	Section 4.3
P309	Z axis leadscrew backlash (0.255 μ m)	Section 4.9
P310	Z axis maximum programmable feedrate	Section 4.4
P311	Z axis G00 feedrate	Section 4.4
P312	1st home searching feedrate for the Z axis	Section 4.6
P313	Additional analog pulse for the Z axis. (1=2.5 mV)	Section 4.9
P314	Proportional gain K1 for the Z axis	Section 4.5
P315	Gain break point for the Z axis	Section 4.5
P316	Proportional gain K2 for the Z axis	Section 4.5
P317	Minimum Z axis analog. (1=2.5mV)	Section 4.2
P318	In-position zone (dead band) for the Z axis. (0.255 μ m)	Section 4.2
P319	Z axis home coordinate	Section 4.6
P400	Sign of the W axis analog output	Section 4.
P401	Counting direction of the W axis	Section 4.
P402	W axis jogging direction	Section 4.
P403	W axis feedback (counting) resolution	Section 4.1
P404	Dwell between Enable and analog output for the W axis. (N= No, Y=Yes)	Section 4.2
P405	Continuous control of the W axis. (N= No, Y=Yes)	Section 4.2
P406	Type of feedback signal for the W axis. (N= Square, Y=Sine)	Section 4.1
P407	W axis positive travel limit	Section 4.3
P408	W axis negative travel limit	Section 4.3
P409	W axis leadscrew backlash (0.255 μ m)	Section 4.9
P410	W axis maximum programmable feedrate	Section 4.4
P411	W axis G00 feedrate	Section 4.4
P412	1st home searching feedrate for the W axis	Section 4.6
P413	Additional analog pulse for the W axis. (1=2.5 mV)	Section 4.9
P414	Proportional gain K1 for the W axis	Section 4.5
P415	Gain break point for the W axis	Section 4.5
P416	Proportional gain K2 for the W axis	Section 4.5
P417	Minimum W axis analog. (1=2.5mV)	Section 4.2
P418	In-position zone (dead band) for the W axis. (0.255 μ m)	Section 4.2
P419	W axis home coordinate	Section 4.6
P500	Sign of the V axis analog output	Section 4.
P501	Counting direction of the V axis	Section 4.
P502	V axis jogging direction	Section 4.
P503	V axis feedback (counting) resolution	Section 4.1
P504	Dwell between Enable and analog output for the V axis. (N= No, Y=Yes)	Section 4.2
P505	Continuous control of the V axis. (N= No, Y=Yes)	Section 4.2
P506	Type of feedback signal for the V axis. (N= Square, Y=Sine)	Section 4.1
P507	V axis positive travel limit	Section 4.3
P508	V axis negative travel limit	Section 4.3
P509	V axis leadscrew backlash (0.255 μ m)	Section 4.9
P510	V axis maximum programmable feedrate	Section 4.4
P511	V axis G00 feedrate	Section 4.4
P512	1st home searching feedrate for the V axis	Section 4.6
P513	Additional analog pulse for the V axis. (1=2.5 mV)	Section 4.9
P514	Proportional gain K1 for the V axis	Section 4.5
P515	Gain break point for the V axis	Section 4.5
P516	Proportional gain K2 for the V axis	Section 4.5
P517	Minimum V axis analog. (1=2.5mV)	Section 4.2

P600(8)	Type of X axis marker pulse (home). 0= Neg, 1= Pos.	Section 4.6
(7)	Type of Y axis marker pulse (home). 0= Neg, 1= Pos.	Section 4.6
(6)	Type of Z axis marker pulse (home). 0= Neg, 1= Pos.	Section 4.6
(5)	Type of W axis marker pulse (home). 0= Neg, 1= Pos.	Section 4.6
(4)	Type of machine. 0= Mill, 1= Boring mill.	Section 3.3.1
(3)	W axis: normal (0) or position-only (1)	Section 3.3.1
(2)	W axis: rotary HIRTH. 0= No, 1= Yes	Section 3.3.1
(1)	W axis: linear (0) or rotary (1)	Section 3.3.1

P601(8)	M06 interrupts the program. 0= No, 1= Yes	Section 3.3.5
(7)	Sign of the analog S output associated with M19	Section 5.5
(6)	Residual analog S output during range change. 0= No, 1= Yes	Section 5.1
(5)	Machining center. 0= No, 1= Yes	Section 3.3.5
(4)	Sign of the spindle analog output.	Section 5.2
(3)	S output in 2-digit BCD code. 0= No, 1= Yes	Section 5.3
(2)	S output in 4-digit BCD code. 0= No, 1= Yes	Section 5.3
(1)	Random tool magazine. 0= No, 1= Yes	Section 3.3.5

P602(8)	Cancellation of X axis feedback alarm. 0= No, 1= Yes	Section 3.3.2
(7)	Cancellation of Y axis feedback alarm. 0= No, 1= Yes	Section 3.3.2
(6)	Cancellation of Z axis feedback alarm. 0= No, 1= Yes	Section 3.3.2
(5)	Cancellation of W axis feedback alarm. 0= No, 1= Yes	Section 3.3.2
(4)	X axis home switch. 1= No, 0= Yes	Section 4.6
(3)	Y axis home switch. 1= No, 0= Yes	Section 4.6
(2)	Z axis home switch. 1= No, 0= Yes	Section 4.6
(1)	W axis home switch. 1= No, 0= Yes	Section 4.6

P603(8)	X axis with binary encoder. 0= No, 1= Yes	Section 4.1
(7)	Y axis with binary encoder. 0= No, 1= Yes	Section 4.1
(6)	Z axis with binary encoder. 0= No, 1= Yes	Section 4.1
(5)	W axis with binary encoder. 0= No, 1= Yes	Section 4.1
(4)	Not being used at this time (=0)	
(3)	Machine with pallets. 0= No, 1= Yes	Section 4.1.1
(2)	Special M06 sequence. 0= No, 1= Yes	Section 3.3.5
(1)	Cancellation of V axis feedback alarm. 0= No, 1= Yes	Section 3.3.2

P604(8)	X axis feedback signal multiplying factor. (0= x4, 1= x2)	Section 4.1
(7)	Y axis feedback signal multiplying factor. (0= x4, 1= x2)	Section 4.1
(6)	Z axis feedback signal multiplying factor. (0= x4, 1= x2)	Section 4.1
(5)	W axis feedback signal multiplying factor. (0= x4, 1= x2)	Section 4.1
(4)	X axis feedback units. (0= mm, 1= inches)	Section 4.1
(3)	Y axis feedback units. (0= mm, 1= inches)	Section 4.1
(2)	Z axis feedback units. (0= mm, 1= inches)	Section 4.1
(1)	W axis feedback units. (0= mm, 1= inches)	Section 4.1

P605(8)	Normal status of Emergency output (pin 5 of connector I/O1). (0=0V, 1=24V)	Section 3.3.2
(7)	Pin 22 of connector I/O 2 as "tool magazine rotating direction". 0= No, 1= Yes	Section 3.3.2
(6)	Y axis as DRO axis. 0= No, 1= Yes	Section 3.3.1
(5)	The CNC waits for trailing edge at "M-done" input. 0= No, 1= Yes	Section 3.3.2
(4)	Axis orientation on the XZ plane	Section 3.3.9
(3)	M21 generated when executing M22, M23, M24 or M25. 0= No, 1= Yes	Section 4.1.1
(2)	The Z axis moves when executing M22, M23, M24 or M25. 0= No, 1= Yes	Section 4.1.1
(1)	The W axis moves when executing M22, M23, M24 or M25. 1= No, 0= Yes	Section 4.1.1

P606(8)	X axis leadscrew error compensation. 0= No, 1= Yes	Section 4.9
(7)	Y axis leadscrew error compensation. 0= No, 1= Yes	Section 4.9
(6)	Z axis leadscrew error compensation. 0= No, 1= Yes	Section 4.9
(5)	W axis leadscrew error compensation. 0= No, 1= Yes	Section 4.9
(4)	Function G74 generates an M30. 0= No, 1= Yes	Section 4.6
(3)	M30 executed when switching to JOG mode. 0= No, 1= Yes	Section 3.3.7
(2)	Maximum Feedrate override value applied by the CNC. 0= 120%, 1=100%	Section 3.3.9
(1)	W axis home switch. 1= No, 0= Yes	Section 3.3.1

ABOVE
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 2500

P607(8)	G53 zero offset activated after Reset. 0= No, 1= Yes	Section 3.3.9
(7)	Status report by interruption. 0= No, 1= Yes	Section 3.3.6
(6)	The CNC aborts DNC communications (program debugging). 1= No, 0= Yes	Section 3.3.6
(5)	DNC protocol active after power-up. 0= No, 1= Yes	Section 3.3.6
(4)	Communications with FAGOR Floppy (1) or Cassette (0)	Section 3.3.6
(3)	DNC. 0= No, 1= Yes	Section 3.3.6
(2)	Spindle reversal with M05 in G84. 1= No, 0= Yes	Section 3.3.9
(1)	Limits ignored when executing M06, M22, M23, M24 or M25. 1= No, 0= Yes	Section 4.11
P608(8)	Direction of the unidirectional approach along X. 0= Positive, 1= Negative	Section 4.8
(7)	Direction of the unidirectional approach along Y. 0= Positive, 1= Negative	Section 4.8
(6)	Direction of the unidirectional approach along Z. 0= Positive, 1= Negative	Section 4.8
(5)	Direction of the unidirectional approach along W. 0= Positive, 1= Negative	Section 4.8
(4)	Unidirectional approach along X. 0= No, 1= Yes	Section 4.8
(3)	Unidirectional approach along Y. 0= No, 1= Yes	Section 4.8
(2)	Unidirectional approach along Z. 0= No, 1= Yes	Section 4.8
(1)	Unidirectional approach along W. 0= No, 1= Yes	Section 4.8
P609(8)	Axis orientation for graphic display. 0= Mill, 1= Boring mill	Section 3.3.9
(7)	Pin 17 of connector I/O 1 as "rapid jog". 0= No, 1= Yes	Section 3.3.2
(6)	Maximum incremental JOG move. (0= 10mm or 1 inch, 1= 1mm or 1 inch)	Section 3.3.7
(5)	M functions set at M table are not output in BCD or binary. 1= No, 0= Yes	Section 3.3.2
(4)	All spindle speed changes generate an S strobe output. 0= No, 1= Yes	Section 5.2
(3)	Pin 23 of connector I/O 2 as "RESET". 0= No, 1= Yes	Section 3.3.2
(2)	Spindle counting direction	Section 5.4
(1)	Machine with axis travel over 8 meters. 0= No, 1= Yes	Section 4.12
P610(8)	X axis binary encoder equivalence	Section 4.1
(7)	Y axis binary encoder equivalence	Section 4.1
(6)	Z axis binary encoder equivalence	Section 4.1
(5)	W axis binary encoder equivalence	Section 4.1
(4)	S analog output: unipolar or bipolar	Section 5.2
(3)	Pin 17 of connector I/O 1 as "Enter" in Play-back mode. 0= No, 1= Yes	Section 3.3.2
(2)	Vectored (interpolated) G00. 0= No, 1= Yes	Section 3.3.9
(1)	Feed-Hold in G84 and G47. 0= No, 1= Yes	Section 3.3.9
P611(8)	In G00 and F00 proportional gain break-point at 256 microns. 0= No, 1= Yes	Section 4.5
(7)	The X axis moves when executing M22, M23, M24 or M25. 1= No, 0= Yes	Section 4.11
(6)	Pin 24 of connector I/O 2 as "Automatic" output. 0= No, 1= Yes	Section 3.3.2
(5)	Feed units in G94. (0=1mm/min or 0.1 inch/min, 1=0.1mm/min or 0.01inch/min)	Section 3.3.9
(4)	W axis as DRO. 0= No, 1= Yes	Section 3.3.1
(3)	Z and W axes movements combined in Z axis graphic display. 0= No, 1= Yes	Section 3.3.9
(2)	Home search required after power-up. 0= No, 1= Yes	Section 4.6
(1)	Pin 24 of connector I/O 2 as "Cycle ON" output. 0= No, 1= Yes	Section 3.3.2
P612(8)	Spindle marker pulse (home) type. 0= Negative, 1= Positive)	Section 5.5
(7)	Type of probe pulse. (0= 0V, 1= 5V or 24V)	Section 3.3.4
(6)	Multiplying factor for electronic handwheel signals. (0= x4, 1= x2)	Section 3.3.3
(5)	Feedback (counting) resolution of the electronic handwheel	Section 3.3.3
(4)	Feedback (counting) resolution of the electronic handwheel	Section 3.3.3
(3)	Feedback units of the electronic handwheel. (0= mm, 1= inches)	Section 3.3.3
(2)	Counting direction of the electronic handwheel	Section 3.3.3
(1)	Connector A6. Handwheel (0) or spindle (1)	Section 3.3.1
P613(8)	Arithmetic parameters P150 through P254 as read-only. 0= No, 1= Yes	Section 3.3.9
(7)	Acc/dec in all G01 movements. 0= No, 1= Yes	Section 4.7
(6)	Leadscrew error compensation tables. (0= 4, 1= 2)	Section 4.9
(5)	G05 or G07 active on power-up. (0= G07, 1= G05)	Section 3.3.9
(4)	Pin 24 of connector I/O 2 as "G00" output. 0= No, 1= Yes	Section 3.3.2
(3)	There is PLC64 in the LAN. 0= No, 1= Yes	Fagor LAN
(2)	Pin 25 of connector I/O 2 as "vertical move" output. 0= No, 1= Yes	Section 3.3.2
(1)	Electronic handwheel model: FAGOR 100P. 0= No, 1= Yes	Section 3.3.3

P614	CNC identification in the Fagor LAN	Fagor LAN
P615(8)	During M06, M19 is executed while the axis is moving. 0= No, 1= Yes	Section 3.3.5
o (7)	Feedrate of rotary axes in degrees/minute (1) or 2.54°/min (0)	Section 4.4
o (6)	Feedrate of linear axes in inches/min (1) or 0.1inch/min (0)	Section 4.4
(5)	The CNC occupies main node "0" in Fagor LAN. 0= No, 1= Yes	Fagor LAN
o (4)	Node N° occupied by the CNC or number of nodes in LAN	Fagor LAN
o (3)	Node N° occupied by the CNC or number of nodes in LAN	Fagor LAN
o (2)	Node N° occupied by the CNC or number of nodes in LAN	Fagor LAN
(1)	Node N° occupied by the CNC or number of nodes in LAN	Fagor LAN
P616(8)	Multiplying factor for V axis feedback signals. (0= x4, 1= x2)	Section 4.1
(7)	V axis feedback units. 0= mm, 1= inches	Section 4.1
(6)	V axis binary encoder equivalence	Section 4.1
(5)	V axis with binary encoder. 0= No, 1= Yes	Section 4.1
(4)	The machine has a V axis. 0= No, 1= Yes	Section 3.3.1
(3)	V axis: normal (0) or positioning-only (1)	Section 3.3.1
(2)	V axis: rotary HIRTH. 0= No, 1= Yes	Section 3.3.1
(1)	V axis: linear (0) or rotary (1)	Section 3.3.1
P617(8)	M function output in BCD (0) or Binary (1)	Section 3.3.2
(7)	Gantry axis. 0= No, 1= Yes	Section 3.3.1
(6)	0.0001 millimeters (0.00001 inch) resolution. 0= No, 1= Yes	Section 4.12
(5)	X as DRO axis. 0= No, 1= Yes	Section 3.3.1
(4)	Z as DRO axis. 0= No, 1= Yes	Section 3.3.1
(3)	V as DRO axis. 0= No, 1= Yes	Section 3.3.1
(2)	V axis home switch. 1= No, 0= Yes	Section 4.6
(1)	Type of V axis marker pulse (home). 0= Negative, 1= Positive	Section 4.6
P618(8)	Function P1=0X considers current work units. 0= No, 1= Yes	Section 3.3.9
(7)	V axis displayed. 1= No, 0= Yes	Section 3.3.1
(6)	X axis displayed. 1= No, 0= Yes	Section 3.3.1
(5)	Y axis displayed. 1= No, 0= Yes	Section 3.3.1
(4)	Z axis displayed. 1= No, 0= Yes	Section 3.3.1
(3)	W axis displayed. 1= No, 0= Yes	Section 3.3.1
(2)	M06 before (0) or after (1) associated subroutine	Section 3.3.5
(1)	CYCLE START key inhibited. 0= No, 1= Yes	Section 3.3.9
P619(8)	W axis as rotary rollover via shortest path. 0= No, 1= Yes	Section 3.3.1
(7)	G59 as additive zero offset. 0= No, 1= Yes	Section 3.3.9
(6)	Spindle orientation in both directions. 0= No, 1= Yes	Section 5.5
(5)	The emergency subroutine executes function M00. 0= No, 1= Yes	Section 3.3.8
(4)	Coordinates assigned to arithmetic parameters in emergency subroutine. (0= Beginning point, 1= Current point)	Section 3.3.8
(3)	Analog S output proportional to actual axis feedrate. 0= No, 1= Yes	Applications
(2)	Monitor color combination	Section 3.3
(1)	Monitor color combination	Section 3.3
P620(8)	Not being used at this time (=0)	
(7)	Not being used at this time (=0)	
(6)	V axis as rotary rollover via shortest path. 0= No, 1= Yes	Section 3.3.1
(5)	Cross compensation applied to Y axis. 0= No, 1= Yes	Section 4.10
(4)	Cross compensation applied to Z axis. 0= No, 1= Yes	Section 4.10
(3)	Transfer inhibit and M-done inputs independent from Feed-hold. 0= No, 1= Yes ...	Fagor LAN
(2)	Acc/dec. in G05 (round corner). 1= No, 0= Yes	Section 4.7
(1)	Marks M1801 thru M1899 to send messages to the CNC. 0= No, 1= Yes	LAN & PLCI

P621(8)	To be used only by the Service Department of Fagor Automation	
(7)	Function M06 does not execute function M19. 1= No, 0= Yes	Section 3.3.5
(6)	Error to be issued when probing (G75). 1= No, 0= Yes	Section 3.3.4
(5)	Not being used at this time (=0)	
(4)	Block beginning synchronized with independent axis (G65). 0= No, 1= Yes	Section 4.12
(3)	Repetitive emergency subroutine. 0= No, 1= Yes	Section 3.3.8
(2)	Not being used at this time (=0)	
(1)	The CNC has a PLCI. 0= No, 1= Yes	PLCI manual
P622(8)	Jig Grinder. 0= No, 1= Yes	Applications
(7)	Transfer inhibit affects M, S, T functions. 1= No, 0= Yes	Fagor LAN
(6)	Sheetmetal tracing on laser machines. 0= No, 1= Yes	Applications
(5)	V axis sine-wave feedback counting resolution	Section 4.1
(4)	W axis sine-wave feedback signals	Section 4.1
(3)	Z axis sine-wave feedback signals	Section 4.1
(2)	Y axis sine-wave feedback signals	Section 4.1
(1)	X axis sine-wave feedback signals	Section 4.1
P623(8)	X axis home searching direction. (0= Positive, 1= Negative)	Section 4.6
(7)	Y axis home searching direction. (0= Positive, 1= Negative)	Section 4.6
(6)	Z axis home searching direction. (0= Positive, 1= Negative)	Section 4.6
(5)	W axis home searching direction. (0= Positive, 1= Negative)	Section 4.6
(4)	V axis home searching direction. (0= Positive, 1= Negative)	Section 4.6
(3)	Axis causing the cross error (cross compensation)	Section 4.10
(2)	Axis causing the cross error (cross compensation)	Section 4.10
(1)	Apply cross compensation onto X axis. 0= No, 1= Yes	Section 4.10
P624(8)	Bell shaped acc/dec.. 0= No, 1= Yes	Section 4.7
(7)	Not being used at this time (=0)	
(6)	Not being used at this time (=0)	
(5)	Sign of V axis leadscrew backlash. (0= Positive, 1= Negative)	Section 4.9
(4)	Sign of W axis leadscrew backlash. (0= Positive, 1= Negative)	Section 4.9
(3)	Sign of Z axis leadscrew backlash. (0= Positive, 1= Negative)	Section 4.9
(2)	Sign of Y axis leadscrew backlash. (0= Positive, 1= Negative)	Section 4.9
(1)	Sign of X axis leadscrew backlash. (0= Positive, 1= Negative)	Section 4.9
P625(8)	To be used only by the Service Department of Fagor Automation	
(7)	Handwheel managed by the PLC. 0= No, 1= Yes	Section 3.3.3
(6)	Spindle inhibit by the PLC. 0= No, 1= Yes	Section 3.3.9
(5)	Type of compensation on G07 sections	Section 3.3.9
(4)	Associated subroutine executed before (1) or after (0) the T function	Section 3.3.5
(3)	Double cross compensation. 0= No, 1= Yes	Section 4.10
(2)	Not being used at this time (=0)	
(1)	G84. Tap beginning synchronized with spindle Io. 0= No, 1= Yes	Section 5.6
P626(8)	○ The machine uses non-servocontrolled open loop motors. 0= No, 1= Yes	Applications
(7)	○ Not being used at this time (=0)	
(6)	○ Not being used at this time (=0)	
(5)	! Not being used at this time (=0) Set to / set to 5 Min. Screen Saver,	
(4)	○ Use G64, multiple machining in arc. 1= No, 0= Yes	Section 3.3.9
(3)	○ "RESCAN 200" feature from Renishaw. 0= No, 1= Yes	Section 4.12
(2)	○ Not being used at this time (=0)	
(1)	○ The CNC displays the tool base (0) or tool tip (1) position	Section 3.3.5

P627(8,7,6)	Not being used at this time (=0)	
(5)	V axis feedback marker pulse "Io" type. 0=Regular, 1= Coded	Section 4.6
(4)	W axis feedback marker pulse "Io" type. 0=Regular, 1= Coded	Section 4.6
(3)	Z axis feedback marker pulse "Io" type. 0=Regular, 1= Coded	Section 4.6
(2)	Y axis feedback marker pulse "Io" type. 0=Regular, 1= Coded	Section 4.6
(1)	X axis feedback marker pulse "Io" type. 0=Regular, 1= Coded	Section 4.6
P628(2)	W axis variable Io increases in positive (0) or negative (1) direction	Section 4.6
(1)	W axis coded Io period. (0= 20mm, 1= 100mm)	Section 4.6
(2)	Z axis variable Io increases in positive (0) or negative (1) direction	Section 4.6
(1)	Z axis coded Io period. (0= 20mm, 1= 100mm)	Section 4.6
(2)	Y axis variable Io increases in positive (0) or negative (1) direction	Section 4.6
(1)	Y axis coded Io period. (0= 20mm, 1= 100mm)	Section 4.6
(2)	X axis variable Io increases in positive (0) or negative (1) direction	Section 4.6
(1)	X axis coded Io period. (0= 20mm, 1= 100mm)	Section 4.6
P629(8,7,6,5,4,3)	Not being used at this time (=0)	
(2)	V axis variable Io increases in positive (0) or negative (1) direction	Section 4.6
(1)	V axis coded Io period. (0= 20mm, 1= 100mm)	Section 4.6
P700	Spindle speed S when in M19. (0..255 rpm)	Section 5.5
P701	Number of tool pockets in tool magazine. (0..98)	Section 3.3.5
P702	First axis to move when executing M06. (1=X, 2=Y, 3=Z, 4=W, 5=V)	Section 3.3.5
P703	Second axis to move when executing M06. (1=X, 2=Y, 3=Z, 4=W, 5=V)	Section 3.3.5
P704	Third axis to move when executing M06. (1=X, 2=Y, 3=Z, 4=W, 5=V)	Section 3.3.5
P705	Fourth axis to move when executing M06. (1=X, 2=Y, 3=Z, 4=W, 5=V)	Section 3.3.5
P706	Value of the residual S analog voltage. (1=2.5mV)	Section 5.1
P707	Oscillation period during range change	Section 5.1
P708	Feedrate override When analog voltage reaches 10V.	Section 4.4
P709	Subroutine associated with M06	Section 3.3.5
P710	Subroutine associated with M22	Section 4.11
P711	Subroutine associated with M23	Section 4.11
P712	Subroutine associated with M24	Section 4.11
P713	Subroutine associated with M25	Section 4.11
P714	Error if actual feedrate is not within 50% and 200% of programmed value	Section 4.4
P715	Dwell between blocks in G07 (square corner). (1=10ms)	Section 3.3.8
P716	Distance between unidirectional approach point and programmed point	Section 4.8
P717	Spindle in-position zone during M19	Section 5.5
P718	Spindle proportional gain K during M19	Section 5.5
P719	Minimum spindle analog for M19. (1=2.5mV)	Section 5.5
P720	M associated to probing (G75)	Section 3.3.4
P721	ACCELERATION/DECELERATION for X. (1=20ms)	Section 4.8
P722	ACCELERATION/DECELERATION for Y. (1=20ms)	Section 4.8
P723	ACCELERATION/DECELERATION for Z. (1=20ms)	Section 4.8
P724	ACCELERATION/DECELERATION for W. (1=20ms)	Section 4.8
P725	Subroutine associated with function G74	Section 4.7
P726	Recovery of programmed position on axes "without continuous control"	Section 4.6
P727	Emergency subroutine	Section 3.3.7
P728	ACCELERATION/DECELERATION for V. (1=20ms)	Section 4.8
P729	Maximum feedrate for circular interpolations	Section 4.5
P730	Nº of the node receiving the M, S, T functions	Fagor LAN
P731	Nº of the register of node P730 receiving the M, S, T functions	Fagor LAN
P732	FEED-FORWARD gain for X	Section 4.7
P733	FEED-FORWARD gain for Y	Section 4.7
P734	FEED-FORWARD gain for Z	Section 4.7
P735	FEED-FORWARD gain for W	Section 4.7
P736	FEED-FORWARD gain for V	Section 4.7
P737	Group of marks used by the CNC to send its internal data	Fagor LAN
P738	Group of marks used by the CNC to update the status of its connectors	Fagor LAN
P739	Group of marks used by the CNC to update its internal data	Fagor LAN
P740	Group of marks used by the CNC to update its additional internal data	Fagor LAN

P741	How often is the PLCI cycle executed	Fagor LAN
P742	Not being used at this time (=0)	
P743	Subroutine associated with the T function	Section 3.3.5
P744	Bell shaped acc/dec. ramp duration. (1= 10ms)	Section 4.7
P745	G84. Spindle acc/dec ramp duration in RANGE 1. (1= 20ms)	Section 5.6
P746	G84. Spindle feed-forward gain during rigid tapping	Section 5.6
P747	G84. Spindle acc/dec ramp duration in RANGE 2. (1= 20ms)	Section 5.6
P748	G84. Spindle acc/dec ramp duration in RANGE 3. (1= 20ms)	Section 5.6
P749	G84. Spindle acc/dec ramp duration in RANGE 4. (1= 20ms)	Section 5.6
P750	G84. Proportional gain K1 of the tapping axis	Section 5.6
P800	Spindle encoder line count, number of pulses. (0..9999)	Section 5.4
P801	Unidirectional approach feedrate	Section 4.8
P802	Protected program	Section 3.3
P803	Jogging feedrate	Section 3.3.7
P804	Probing feedrate in JOG mode	Section 3.3.4
P805	Maximum coupling (slaving) error on GANTRY axes. (µm)	Section 3.3.1
P806	Distance between laser beam and sheetmetal surface, focus. (0..32000µm)	Applications
P807	Maximum sheetmetal deflection. (0..32000µm)	Applications
	GP model. Delay between "Brake" and "Fast" signals for X axis	Applications
P808	Analog voltage corresponding to maximum Z axis feedrate	Applications
	GP model. Delay between "Slow" and "Brake" signals for X axis	Applications
P809	GP model. Delay between "Brake" and "In-Position" signals for X axis	Applications
P810	2nd home searching feedrate for X	Section 4.6
	GP model. Duration of the "In-Position" signal for X axis	Applications
P811	2nd home searching feedrate for Y	Section 4.6
	GP model. Delay between "Brake" and "Fast" signals for Y axis	Applications
P812	2nd home searching feedrate for Z	Section 4.6
	GP model. Delay between "Slow" and "Brake" signals for Y axis	Applications
P813	2nd home searching feedrate for W	Section 4.6
	GP model. Delay between "Brake" and "In-Position" signals for Y axis	Applications
P814	2nd home searching feedrate for V	Section 4.6
	GP model. Duration of the "In-Position" signal for Y axis	Applications
P815	Spindle acc/dec ramp duration. (1=10ms)	Section 5.
P816	GP model. Delay between "Brake" and "Fast" signals for Z axis	Applications
P817	GP model. Delay between "Slow" and "Brake" signals for Z axis	Applications
P818	GP model. Delay between "Brake" and "In-Position" signals for Z axis	Applications
P819	GP model. Duration of the "In-Position" signal for Z axis	Applications
P820	GP model. Delay between "Brake" and "Fast" signals for W axis	Applications
P821	GP model. Delay between "Slow" and "Brake" signals for W axis	Applications
P822	GP model. Delay between "Brake" and "In-Position" signals for W axis	Applications
P823	GP model. Duration of the "In-Position" signal for W axis	Applications
P900	Position where the 1st axis moves when executing M06	Section 3.3.5
	GP model. Braking distance for X axis	Applications
P901	Position where the 2nd axis moves when executing M06	Section 3.3.5
	GP model. Braking distance for Y axis	Applications
P902	Position where the 3rd axis moves when executing M06	Section 3.3.5
	GP model. Braking distance for Z axis	Applications
P903	Position where the 4th axis moves when executing M06	Section 3.3.5
	GP model. Braking distance for W axis	Applications
P904	Position where the W axis moves when executing M22, M23, M24 or M25	Section 4.11
	GP model. Stopping distance for X axis	Applications
P905	Position where the X axis moves when executing M22 or M23	Section 4.11
	GP model. Stopping distance for Y axis	Applications
P906	Position where the X axis moves when executing M24 or M25	Section 4.11
	GP model. Stopping distance for Z axis	Applications
P907	Position where the Z axis moves when executing M22, M23, M24 or M25	Section 4.11
	GP model. Stopping distance for W axis	Applications

P908	Collision zone between Y, Z	Section 4.12
P909	Collision zone between Y, Z	Section 4.12
P910	Minimum X coordinate of the probe	Section 3.3.4
P911	Maximum X coordinate of the probe	Section 3.3.4
P912	Minimum Y coordinate of the probe	Section 3.3.4
P913	Maximum Y coordinate of the probe	Section 3.3.4
P914	Minimum Z coordinate of the probe	Section 3.3.4
P915	Maximum Z coordinate of the probe	Section 3.3.4
P916	Spindle orient position when executing M19 without "S"	Section 5.5
P917	Lower limit of the forbidden zone for the spindle in M19	Section 5.5
P918	Upper limit of the forbidden zone for the spindle in M19	Section 5.5
P919	Offset of the X axis coded Io	Section 4.6
P920	Offset of the Y axis coded Io	Section 4.6
P921	Offset of the Z axis coded Io	Section 4.6
P922	Offset of the W axis coded Io	Section 4.6
P923	Offset of the V axis coded Io	Section 4.6

P924 thru P952 Not being used at this time (=0).

001 This error occurs in the following cases:

> When the first character of the block to be executed is not an "N".

> When while BACKGROUND editing, the program in execution calls a subroutine located in the program being edited or in a later program.

The order in which the part-programs are stored in memory are shown in the part-program directory. If during the execution of a program, a new one is edited, this new one will be placed at the end of the list.

002 Too many digits when defining a function in general.

003 A negative value has been assigned to a function which does not accept the (-) sign or an incorrect value has been given to a canned cycle parameter.

004 A canned cycle has been defined while function G02, G03 or G33 was active.

005 Parametric block programmed wrong.

006 There are more than 10 parameters affected in a block.

007 Division by zero.

008 Square root of a negative number.

009 Parameter value too large

010 M41, M42, M43 or M44 has been programmed.

011 More than 7 "M" functions in a block.

012 This error occurs in the following cases:

> Function G50 is programmed wrong

> Tool dimension values too large.

> Zero offset values (G53/G59) too large.

013 Cycle defined incorrectly.

014 A block has been programmed which is incorrect either by itself or in relation with the program history up to that instant.

015 Functions G20, G21, G22, G23, G24, G25, G26, G27, G28, G29, G30, G31, G32, G50, G52, G53, G54, G55, G56, G57, G58, G59, G72, G73, G74, G92 and G93 must be programmed alone in a block.

016 The called subroutine or block does not exist or the block searched by means of special function F17 does not exist.

017 This error is issued in the following cases:

> Negative or too large thread pitch value.

> Function G95 or M19 has been used with machine parameter "P800=0".

018 Error in blocks where the points are defined by means of angle-angle or angle-coordinate.

019 This error is issued in the following cases:

> After defining G20, G21, G22 or G23, the number of the subroutine it refers to is missing.

> The "N" character has not been programmed after function G25, G26, G27, G28 or G29.

> Too many nesting levels.

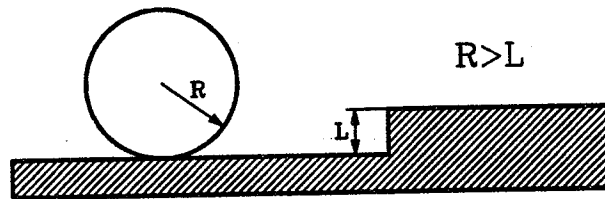
020 The axes of the circular interpolation are not programmed correctly.

021 There is no block at the address defined by the parameter assigned to F18, F19, F20, F21, F22.

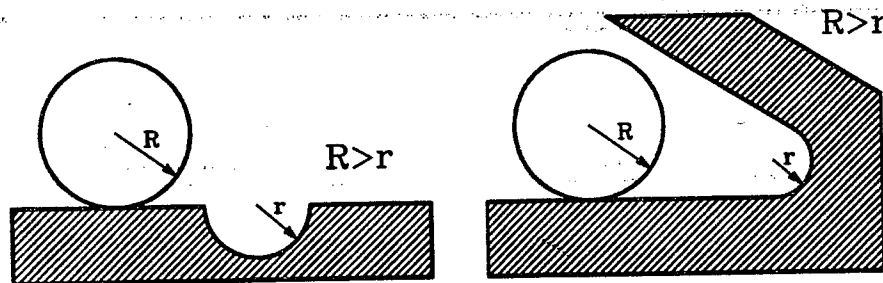
022 An axis is repeated when programming G74.

023 K has not been programmed after G04.

- 024 The decimal point is missing when programming T2.2 or N2.2.
- 025 Error in a definition block or subroutine call, or when defining either conditional or unconditional jumps.
- 026 This error is issued in the following cases:
- > Memory overflow.
 - > Not enough free tape or CNC memory to store the part-program.
- 027 I/J/K has not been defined for a circular interpolation or thread.
- 028 An attempt has been made to select a tool offset at the tool table or a non-existent external tool (the number of tools is set by machine parameter).
- 029 Too large a value assigned to a function.
- This error is often issued when programming an F value in mm/min (inch/min) and, then, switching to work in mm/rev (inch/rev) without changing the F value.
- 030 The programmed G function does not exist.
- 031 Tool radius value too large.



- 032 Tool radius value too large.



- 033 A movement of over 8388 mm or 330.26 inches has been programmed.

Example: Being the X axis position X-5000, if we want to move it to point X5000, the CNC will issue error 33 when programming the block N10 X5000 since the programmed move will be:
 $5000 - (-5000) = 10000 \text{ mm}.$

In order to make this move without issuing this error, it must be carried out in two stages as indicated below:

N10 X0 ; 5000 mm move
 N10 X5000 ; 5000 mm move

- 034 S or F value too large. - ON BCL 760 PRESS RESET 2 TIMES RECALL PROG

- 035 Not enough information for corner rounding, chamfering or compensation.
- 036 Repeated subroutine.
- 037 Function M19 programmed incorrectly.

038 Function G72 or G73 programmed incorrectly.

It must be borne in mind that if G72 is applied only to one axis, this axis must be positioned at part zero (0 value) at the time the scaling factor is applied.

039 This error occurs in the following cases:

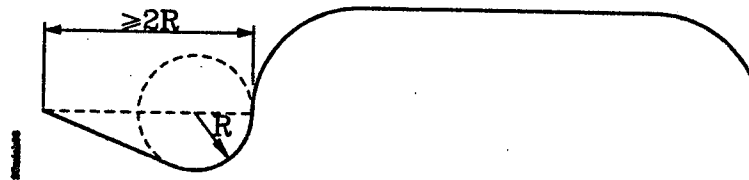
> More than 15 nesting levels when calling subroutines.

> A block has been programmed which contains a jump to itself. Example: N120 G25 N120.

040 The programmed arc does not go through the defined end point (tolerance 0.01mm) or there is no arc that goes through the points defined by G08 or G09.

041 This error is issued when programming a tangential entry as in the following cases:

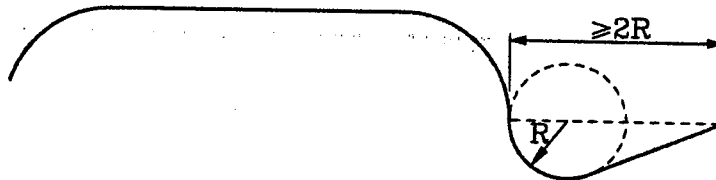
> There is no room to perform the tangential entry. A clearance of twice the rounding radius or greater is required.



> If the tangential entry is to be applied to an arc (G02, G03), The tangential entry must be defined in a linear block.

042 This error is issued when programming a tangential exit as in the following cases:

> There is no room to perform the tangential exit. A clearance of twice the rounding radius or greater is required.



> If the tangential exit is to be applied to an arc (G02, G03), The tangential exit must be defined in a linear block.

043 Polar origin coordinates (G93) defined incorrectly.

044 Canned cycle defined wrong.

045 Function G36, G37, G38 or G39 programmed incorrectly.

046 Polar coordinates defined incorrectly.

047 A zero movement has been programmed during radius compensation or corner rounding.

048 W axis programmed wrong. *make Signoscript active in Redimat*

049 Chamfer programmed incorrectly.

050 Functions M06, M22, M23, M24, M25 must be programmed alone in a block.

051 * A tool or pallet change cannot be performed without being in the change position.

052 * The requested tool is not in the magazine.

053 * This error occurs when having a machining center and 2 different external Ts have been programmed in a row without programming an M06 in between.

054 There is no disk in the FAGOR Floppy Disk Unit, there is no tape in the cassette reader or the reader head cover is open.

055 Parity error when reading or writing a floppy or cassette.

056 This error comes up in the following cases:

- > When the memory is locked and an attempt is made to generate a CNC program by means of function G76.
- > When trying to generate program P99999 or a protected program by means of function G76.
 - > If function G76 is followed by function G22 or G23.
 - > If there are more than 70 characters after G76.
 - > If function G76 (block content) has been programmed without having programmed G76 P5 or G76 N5 before.
 - > If in a G76 P5 or G76 N5 type function does not contain the 5 digits of the program number.
 - > If while a program is being generated (G76 P5 or G76 N5), its program number is changed without cancelling the previous one.
 - > If while executing a G76 P5 type block, the program referred to is not the one edited. In other words, that another one has been edited later or that a G76 P5 type block is executed while a program is being edited in background.

057 Write-protected floppy disk or cassette.

058 Irregular floppy drive motion or sluggish tape transport.

059 Communication error between the CNC and the FAGOR Floppy Disk Unit or between the CNC and the cassette reader.

060 Internal CNC hardware error. Consult with the Technical Service Department.

061 Battery error.

The memory contents will be kept for 10 more days (with the CNC off) from the moment this error occurs. The whole battery module located on the back must be replaced. Consult with the Technical Service Department.



Due to danger of explosion or combustion: do not try to recharge the battery, do not expose it to temperatures higher than 100°C (232°F) and do not short the battery leads.

064 * External emergency input (pin 14 of connector I/O1)^{DE} is activated.

065 * This error comes up in the following cases:

- > If while probing (G75) the programmed position is reached without receiving the probe signal.
- > If while executing a probing canned cycle, the CNC receives the probe signal without actually carrying out the probing move itself (collision).

066 * X axis travel limit overrun.

It is generated either because the machine is beyond limit or because a block has been programmed which would force the machine to go beyond limits.

067 * Y axis travel limit overrun.

It is generated either because the machine is beyond limit or because a block has been programmed which would force the machine to go beyond limits.

068 * Z axis travel limit overrun.

It is generated either because the machine is beyond limit or because a block has been programmed which would force the machine to go beyond limits.

069 * W axis travel limit overrun.

It is generated either because the machine is beyond limit or because a block has been programmed which would force the machine to go beyond limits.

070 ** X axis following error.

071 ** Y axis following error.

- 072 ** Z axis following error.
- 073 ** W axis following error.
- 074 ** Spindle speed value too large.
- 075 ** X axis feedback error. Connector A1.
- 076 ** Y axis feedback error. Connector A2.
- 077 ** Z axis feedback error. Connector A3.
- 078 ** W axis feedback error. Connector A4.
- 079 ** Spindle feedback error. Connector A5.
- 080 ** Handwheel feedback error. Connector A5.
- 081 ** V axis feedback error. Connector A5.
- 082 ** Parity error in general parameters. The CNC resets the serial line RS232C machine parameters: "P0= 9600", "P1=8", "P2=0", "P3=1", "P607(3)=1", "P607(4)=1", "P607(5)=1".
- 083 ** Parity error in V axis parameters. The CNC resets the serial line RS232C machine parameters: "P0= 9600", "P1=8", "P2=0", "P3=1", "P607(3)=1", "P607(4)=1", "P607(5)=1".
- 084 * V axis travel limit overrun.
- 085 ** V axis following error.
- 086 Not being used at this time.
- 087 ** Internal CNC hardware error. Consult with the Technical Service Department.
- 088 ** Internal CNC hardware error. Consult with the Technical Service Department.
- 089 * All the axes have not been homed.
- This error comes up when it is mandatory to search home on all axes after power-up. This requirement is set by machine parameter.
- 090 ** Internal CNC hardware error. Consult with the Technical Service Department.
- 091 ** Internal CNC hardware error. Consult with the Technical Service Department.
- 092 ** Internal CNC hardware error. Consult with the Technical Service Department.
- 093 ** Internal CNC hardware error. Consult with the Technical Service Department.
- 094 Parity error in tool table or zero offset table G53-G59. The CNC resets the serial line RS232C machine parameters: "P0= 9600", "P1=8", "P2=0", "P3=1", "P607(3)=1", "P607(4)=1", "P607(5)=1".
- 095 ** Parity error in W axis parameters. The CNC resets the serial line RS232C machine parameters: "P0= 9600", "P1=8", "P2=0", "P3=1", "P607(3)=1", "P607(4)=1", "P607(5)=1".
- 096 ** Parity error in Z axis parameters. The CNC resets the serial line RS232C machine parameters: "P0= 9600", "P1=8", "P2=0", "P3=1", "P607(3)=1", "P607(4)=1", "P607(5)=1".
- 097 ** Parity error in Y axis parameters. The CNC resets the serial line RS232C machine parameters: "P0= 9600", "P1=8", "P2=0", "P3=1", "P607(3)=1", "P607(4)=1", "P607(5)=1".
- 098 ** Parity error in X axis parameters. The CNC resets the serial line RS232C machine parameters: "P0= 9600", "P1=8", "P2=0", "P3=1", "P607(3)=1", "P607(4)=1", "P607(5)=1".
- 099 ** Parity error in M table. The CNC resets the serial line RS232C machine parameters: "P0= 9600", "P1=8", "P2=0", "P3=1", "P607(3)=1", "P607(4)=1", "P607(5)=1".
- 100 ** Internal CNC hardware error. Consult with the Technical Service Department.
- 101 ** Internal CNC hardware error. Consult with the Technical Service Department.

- 105 This error comes up in the following cases:
- > A comment has more than 43 characters.
 - > A program has been defined with more than 5 characters.
 - > A block number has more than 4 characters.
 - > Strange characters in memory.

106 ** Inside temperature limit exceeded.

107 ** Error in W axis leadscrew error compensation parameters. The CNC resets the serial line RS232C machine parameters: "P0= 9600", "P1=8", "P2=0", "P3=1", "P607(3)=1", "P607(4)=1", "P607(5)=1".

108 ** Error in Z axis leadscrew error compensation parameters. The CNC resets the serial line RS232C machine parameters: "P0= 9600", "P1=8", "P2=0", "P3=1", "P607(3)=1", "P607(4)=1", "P607(5)=1".

109 ** Error in Y axis leadscrew error compensation parameters. The CNC resets the serial line RS232C machine parameters: "P0= 9600", "P1=8", "P2=0", "P3=1", "P607(3)=1", "P607(4)=1", "P607(5)=1".

110 ** Error in X axis leadscrew error compensation parameters. The CNC resets the serial line RS232C machine parameters: "P0= 9600", "P1=8", "P2=0", "P3=1", "P607(3)=1", "P607(4)=1", "P607(5)=1".

111 * FAGOR LAN line error. Hardware installed incorrectly. *Connection between PLC64 + Fagor*

112 * FAGOR LAN error. It comes up in the following instances:

- > When the configuration of the LAN nodes is incorrect.
- > The LAN configuration has been changed. One of the nodes is no longer present (active).

When this error occurs, access the LAN mode, editing or monitoring, before executing a program block.

113 * FAGOR LAN error. A node is not ready to work in the LAN. For example:

- > The PLC64 program is not compiled.
- > A G52 type block has been sent to an 82CNC while it was in execution.

114 * FAGOR LAN error. An incorrect command has been sent out to a node.

115 * Watch-dog error in the periodic module.

This error occurs when the periodic module takes longer than 5 milliseconds.

116 * Watch-dog error in the main module.

This error occurs when the main module takes longer than half the time indicated in machine parameter "P741".

117 * The internal CNC information requested by activating marks M1901 thru M1949 is not available.

118 * An attempt has been made to modify an unavailable internal CNC variable by means of marks M1950 thru M1964.

119 Error when writing machine parameters, the decoded M function table and the leadscrew error compensation tables into the EEPROM memory.

This error may occur when after locking the machine parameters, the decoded M function table and the leadscrew error compensation tables, one tries to save this information into the EEPROM memory.

120 Checksum error when recovering (restoring) the machine parameters, the decoded M function table and leadscrew error compensation tables from the EEPROM memory.

150 Incoherent data in the 512 Kb memory.

When this error occurs, save as many programs as you can into the Floppy Disk Unit, peripheral or PC. Then, proceed as follows to format the 512 Kb memory (when doing this, all part-programs stored in this memory will be lost).

Press [OP MODE] [6] to select the Editing mode.
Press [LOCK/UNLOCK] the screen displays the text: CODE: F7
Key in: FM512 and press [ENTER]

Once the 512 Kb memory is formatted, recover (restore) the programs you saved into the Floppy Disk Unit, peripheral or PC.

- 151 Defective 512 Kb memory. Consult with the Technical Service department.
152 Not enough available free space in the 512 Kb memory.

Attention:

The **ERRORS** indicated with "*" behave as follows:



They stop the axis feed and the spindle rotation by cancelling the Enable signals and the analog outputs of the CNC.

They interrupt the execution of the part-program of the CNC if it was being executed.

The **ERRORS** indicated with "***" besides behaving as those with an "*", they activate the **INTERNAL EMERGENCY OUTPUT**.

OP MODE 6
FM UNLOCK
TYPE PCALL ENTER
ASK RESET
PRESS 4 BUTTON ENTER

TO CLEAR
ALL MEMORY

Ope 6
F3 (Program
Delete
99999 (5)
4