

Code	failures	Controls	possibles causes	Solutions
546	Nothing at the display and green light of the distribution card is off	Control input AC Voltage Control output voltage at the power supply :Value 12V +- 0,5V	power cord primary fuse Switching power supply	Change Change Change
547	Nothing at the display and green light of the distribution card is on	Invert whith an other hand control Control V+ ont the Hand control connector :Value 12V +- 0,5V Control 12 Volts on the connector panel :Value 12V +- 0,5V Shunt the pin beside the relay on the ditribution card PCB	Hand control hand control cable Distribution card Distribution card relay	Change or control next step Change Redo the welds connectors on the distribution card PCB Change the relay or card
548	Nothing at the display and green light of the distribution card flash	Connect the motors one by one IF on each motor there is a problem, check next point. ELSE, on the concerned motor control le V+ voltage :Value 12V +- 0,5V Control output voltage at the power supply Value 12V +- 0,5V IF the previous step is ok	Spiral cable or electronic card Switching power supply Distribution card	Change Change Change
549	First line of the screen display square dark	Invert whith an other hand control	Hand control	Change

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550	In Run mode on the LCD, the motor doesn't work	Verify on Hancontrol Cable the TTL level of GO line. Value beetwen 4,5V and 5V Verify the level on spiral cable of the motor On the front plate of the distribution card, verify the GO level value on the free connecteur with one good motor and handcontrol connected	Cable Spiral cable Distribution card	Change Change Remake the soldering connectors on the distribution card PCB or change the card
551	Led for indication movement to the upper keypad flash random	Control the proximity of the ribbon cable and pins of LCD display	Pins too long	Cut the pins .
	Bad meessage on the LCD	Check like previous point	Pins too long	Cut the pins .
552	The machine don't recognize the connected motor at switch on	Check the continuity an short circuit of communication line (see the scheme for detail)	Cable	Change
553	The message "Connection deffect" appear in RUN mode	Check like previous point -----	----- Distribution card	----- Remake the soldering connectors on the distribution card PCB or change the card
554	the message " MOVEMENT NOT AVAILABLE" appear at the changement of movement	Control with only the motor Connected ,corresponding at the movement	cable	Change

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555	Message : "DEFFECT M : ANGULAR POSI."	Connect in test mode. Verify in dump EEPROM (command 0+CR) successive value after adress 40 Control the potentiometer Value at 0 degré. Value between 450 and 550 Ohms	Parameters EEPROM loose. Coupling of gearwheel potentiometer is deffect (not possible after serial machine n° 1674	Execute the modification (see technical information sheet). Redo configuration "Angular parameters " Change The gearbox
556	Offset between value displayed and mechanical value	Control the potentiometer Value at 0 degré. Value between 450 and 550 Ohms	Coupling of gearwheel potentiometer is deffect (not possible after serial machine n° 1674	Change The gearbox
557	The gearbox reverse all 2 degrees	Control the motor current after 2 minutes with external power supply at 10 volts without load : M1: < 450 mA M2: < 300 mA	Motor deffect	Change motor (see technical information sheet)
558	The ABD movment work not regularly (quick,low,,,) in speed 1 and 2	Check release number of software handcontrol (V3.0 or V3.1) Check release number of software motor V3.0	Probleme of regulation.Motor current very low Probleme of regulation.Motor current very low	Replace Hand control by V3.1 Replace motor card by V3.1 and redo angular parameters
559	The gearbox not reverse with the high load	Check with dynamometer (see method)	The current motor decrease after 100 hours	Redo calibration of load motor (see method)
560	Message M1 or M2 no movment in sychro mode	check release number of software handcontrol (V3.0 or V3.1)	Probleme of regulation.Motor current very low	Replace Hand control by V3.1

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561	Gearbox noisy (M1)	Control the motor current after 2 minutes with external power supply at 10 volts without load : M1: < 450 mA -----	Motor deffect -----	Change motor (see technical information sheet) change de gearbox
562	Error Message "LOAD MAXI"	Control the motor current with external power supply at 10 volts without load : M1: < 800 mA Disconnect the wiring motor and start on the hand control	Motor deffect motor card	Change motor (see technical information sheet 4670021169) change the motor card
563	Message "CHECK MOTOR CARD VERSION"	Control the release on LCD during initialization	Hand control S1	Replace the hand control by Serie2