	DIAG	NOSTIC ERROR LIST CONTROL BOA	ARD	
DIAGNOSTICA	DESCRIZIONE	CAUSE	COSA FARE	
ER01	Photocells faulty test	Exchange of photocell's contacts hasn't been detected or has taken place beyond the useful test time.	- Check the wiring of tested photocells - Logics setting: photocells Test is active - Check hardware failures on photocell's Rx or Tx - Chek presence of power supply on 24V output and/or starting of 24V Vsafe power supply - Repairs: replace relays or components on 24V or 24V vsafe power supply circuit, components on inputs circuit	
ER02	Safety edge faulty test	Exchange of safety device's contacts (safaty edges) hasn't been detected or has taken place beyond the useful test time.	- Check the wiring of tested safety edges - Logics setting: Safety Edges Test is active - Check hardware failures on safety devices (safety edges) - Chek presence of power supply on 24V output and/or starting of 24V Vsafe power supply - Repairs: replace relays or components on 24V or 24V vsafe power supply circuit, components on inputs circuit	
ER03	Photocells in opening faulty test	Exchange of contacts of photocells connected on Photocells in Opening hasn't been detected or has taken place beyond the useful test time.	- Check the wiring of tested photocells in opening - Logics setting: photocells Test is active - Check hardware failures on photocell's Rx or Tx - Chek presence of power supply on 24V output and/or starting of 24V vsafe power supply - Repairs: replace relays or components on 24V or 24V vsafe power supply circuit, components on inputs circuit	G
ER04	Photocells in closing faulty test	Exchange of contacts of photocells connected on Photocells in Closing hasn't been detected or has taken place beyond the useful test time.	- Check the wiring of tested photocells in closing - Logics setting: photocells Test is active - Check hardware failures on photocell's Rx or Tx - Chek presence of power supply on 24V output and/or starting of 24V vsafe power supply - Repairs: replace relays or components on 24V or 24V vsafe power supply circuit, components on inputs circuit	
ER05	Safety edge fautly test on slave motor (opposite leaves connection)	Exchange of contacts of safety devices (safety edges) connected on the SLAVE panel hasn't been detected or has taken place beyond the useful test time	- Check the wiring of tested safety edges on SLAVE - Logics setting: Safety Edges Test is active - Check hardware failures on safety devices (safety edges) wired on SLAVE - Chek presence of power supply on 24V output and/or starting of 24V vsafe power supply on SLAVE - Repairs: replace relays or components on 24V or 24V vsafe power supply circuit, components on inputs circuit	RAL
ER06	8k2 safety edge faulty test	Verification test error with the safety edge 8k	- check connection and settings - Check if the resistance is the proper one - safety edge engaged	
ER07	Safety edge opening faulty test	problem with safety edge during the verification test in opening	- verify the connection of the safety edge in opening - settings logic active the verification test on safety edge - check hardware failure on the safety edge Rx or Tx - check the power supply presence 24v and Vsafe power supply - Fixing: change the relè or the components related the main 24V or Vsafe or change the board	
ER08	Safety edge closing faulty test	problem with safety edge during the verification test in closing	- verify the connection of the safety edge in closing - settings logic active the verification test on safety edge - check hardware failure on the safety edge Rx or Tx - check the power supply presence 24v and Vsafe power supply - Fixing: change the relè or the components related the main 24V or Vsafe or change the board	
ER10 (motor BT)	Motor 1 relay running faulty test	- Short circuit mosfet	- Check and remove the causes of possible high absorption of motor 1 - Reparation: replacement of mosfet	
ER10 (motor AC)	relay running MOTOR 1 stucked (faulty)	Motor 1 relay running control circuit failure Relay with stuck contacts	- Reparation: verify and in case replace the relay control	C
ER11 (motor BT)	Test current reading motor 1 failed	- Failure on the shunt amplifacation circuit - Shunt resistance MOTOR 1 faulty - Direction relay MOTOR 1 stucked - Voltage out of range + - 15%	- Check the main power supply (range + - 10%) - Chck motor 1 connection - Fixing: replace the shunt resistor, component involved in the shunt amplifier, mosfet	INO
ER11 (motor AC)	Triac MOTOR 1 short circuit Motor 1 in termic protection Motor 1 not connected	- Triac faulty - Triac circuit faulty - overheating motor - Wron motor connection	- Check connection of the motor - waiting for the motor cooling down - measure the impedance between the phase and the common and between the other phase and the common (value correct between 10 and 20 ohm) - replace the Triac - Replace the board	ONTROL E
ER15 (motor BT)	Motor 2 relay running faulty test	- Short circuit mosfet	Check and remove the causes of possible high absorption of motor 2 Reparation: replacement of mosfet	BOARD
ER15 (motor AC)	relay running MOTOR 2 stucked (faulty)	- Motor 1 relay running control circuit failure - Relay with stuck contacts	- Reparation: verify and in case replace the relay control	RD

	Test current reading motor 2 failed	Egilure on the abunt amplifacation aircuit	Check the main newer cumply (renge + 109/)	
	rest current reading Thotol 2 falled	Failure on the shunt amplifacation circuit Shunt resistance MOTOR 2 faulty	- Check the main power supply (range + - 10%) - Chck motor 2 connection	
ER16		- Direction relay MOTOR 2 stucked	- Fixing: replace the shunt resistor, component involved in the	ARDWARE
		- Voltage out of range + - 15%	shunt amplifier, mosfet	
(motor BT)				
	Triac MOTOR 1 short circuit Motor 1 in termic protection	- Triac faulty	- Check connection of the motor	
ER16	Motor 1 not connected	Triac circuit faulty overheating motor	- waiting for the motor cooling down - measure the impedance between the phase and the common	>
		- Wron motor connection	and between the other phase and the common (value correct	7
(motor AC)			between 10 and 20 ohm)	
			- replace the Triac - Replace the board	ス フ
	motro/ limit switch 1 not connected	problem on the comuncation for the signal of the motor/limit switch 1	- Check limit switch and or motor connection	m
ED40	·		- Fixing : replace the limit switch, cable	111
ER18	·			
	motor/ limit switch 2 not connected	problem on the comuncation for the signal of the motor/limit switch 2	- Check limit switch and or motor connection	
ER19	·		- Fixing : replace the limit switch, cable	
LICIS	·			
	Encoder stop on the motor 2 GIUNO	The actuator movement is too slow or steady compare to the	Check obstacles, frictions, or other impediments which brake the	
	Comunication error from limit switch	programmed functioning. GIUNO	motor's run Set in the main motor higher speed	
ER20	motor 2	Switch limit problem, connection or cable	GIUNO	
	1		Check the connections, in case of problem replace the limit	
			switch	
	Test of the encoder MOTOR 1 failed	- Encoder cable (power supply) disconnected.	- Check encoder cable and wirings	
ER21	1	 Hardware problems (power supply and/or signals) on encoder board or control board 	- Replacement of encoder board - Reparation: replacement of encoder management circuit	Z
			components	
EDAA	Encoder direction opposite to main motor movement direction	Motor power supply or encoder signal wires exchanged.	- Exchange motor 2 power supply or encoder signal polarities	
ER22				
	Encoder stop on the motor 1 GIUNO	The actuator movement is too slow or steady compare to the programmed functioning.	Check obstacles, frictions, or other impediments which brake the motor's run	
	Comunication error from limit switch	GIUNO	Set in the main motor higher speed	
ER25	motor 1	Switch limit problem, connection or cable	GIUNO	
			Check the connections, in case of problem replace the limit switch	
			SWILCH	
	Test of the encoder MOTOR 2 failed	- Encoder cable (power supply) disconnected.	- Check encoder cable and wirings	
ER26		- Hardware problems (power supply and/or signals) on encoder		
LIXZU		board or control board	- Reparation: replacement of encoder management circuit components	
		Motor power supply or encoder signal wires exchanged.	- Exchange motor 1 power supply or encoder signal polarities	
ER27	motor movement direction			
	1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	Impediments against the normal movement (obstacles) along	- Check and remove any obstacles.	
	Obstacle detection motor 2 OPENING			
ED20	obstacle detection motor 2 OPENING	the motor 2 opening travel	- Check and remove any frinctions or other obstacles which	
ER30	obstacle detection motor 2 OPENING		- Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set.	
ER30		the motor 2 opening travel	Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set. Increase the motor 2 force value setting	
	obstacle detection motor 2 CLOSING		- Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set.	1
ER30 ER31	obstacle detection motor 2 CLOSING	the motor 2 opening travel Impediments against the normal movement (obstacles) along	- Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set Increase the motor 2 force value setting - Check and remove any obstacles Check and remove any frinctions or other obstacles which reqired a motor force bigger than the one previously set.	A
	obstacle detection motor 2 CLOSING	the motor 2 opening travel Impediments against the normal movement (obstacles) along the motor 2 closing travel	- Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set Increase the motor 2 force value setting - Check and remove any obstacles Check and remove any frinctions or other obstacles which reqired a motor force bigger than the one previously set Increase the motor 2 force value setting	AN
ER31	obstacle detection motor 2 CLOSING	the motor 2 opening travel Impediments against the normal movement (obstacles) along the motor 2 closing travel Impediments against the normal movement (obstacles) along	- Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set Increase the motor 2 force value setting - Check and remove any obstacles Check and remove any frinctions or other obstacles which reqired a motor force bigger than the one previously set Increase the motor 2 force value setting - Check and remove any obstacles.	AM
	obstacle detection motor 2 CLOSING Slowdown obstacle detection motor 2	the motor 2 opening travel Impediments against the normal movement (obstacles) along the motor 2 closing travel	- Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set Increase the motor 2 force value setting - Check and remove any obstacles Check and remove any frinctions or other obstacles which reqired a motor force bigger than the one previously set Increase the motor 2 force value setting - Check and remove any obstacles Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set.	AMP
ER31	obstacle detection motor 2 CLOSING Slowdown obstacle detection motor 2 OPENING	the motor 2 opening travel Impediments against the normal movement (obstacles) along the motor 2 closing travel Impediments against the normal movement (obstacles) along the motor 2 slowdown opening travel	- Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set Increase the motor 2 force value setting - Check and remove any obstacles Check and remove any frinctions or other obstacles which reqired a motor force bigger than the one previously set Increase the motor 2 force value setting - Check and remove any obstacles Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set Increase the motor 2 force value setting	AMPE
ER31 ER32	obstacle detection motor 2 CLOSING Slowdown obstacle detection motor 2	the motor 2 opening travel Impediments against the normal movement (obstacles) along the motor 2 closing travel Impediments against the normal movement (obstacles) along	- Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set Increase the motor 2 force value setting - Check and remove any obstacles Check and remove any frinctions or other obstacles which reqired a motor force bigger than the one previously set Increase the motor 2 force value setting - Check and remove any obstacles Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set.	AMPE
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ER31 ER32 ER33 ER35	obstacle detection motor 2 CLOSING Slowdown obstacle detection motor 2 OPENING Slowdown obstacle detection motor 2 CLOSING obstacle detection motor 1 OPENING	Impediments against the normal movement (obstacles) along the motor 2 closing travel Impediments against the normal movement (obstacles) along the motor 2 slowdown opening travel Impediments against the normal movement (obstacles) along the motor 2 slowdown closing travel Impediments against the normal movement (obstacles) along the motor 2 slowdown closing travel Impediments against the normal movement (obstacles) along the motor 1 opening travel	- Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set Increase the motor 2 force value setting - Check and remove any obstacles Check and remove any frinctions or other obstacles which reqired a motor force bigger than the one previously set Increase the motor 2 force value setting - Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set Increase the motor 2 force value setting - Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set Increase the motor 2 force value setting - Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set Increase the motor 2 force value setting - Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set Increase the motor 1 force value setting - Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set Increase the motor 1 force value setting - Check and remove any obstacles Check and remove any obstacles.	AMPEROST
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ER31 ER32 ER33 ER35 ER36 ER37 ER38	obstacle detection motor 2 CLOSING Slowdown obstacle detection motor 2 OPENING Slowdown obstacle detection motor 2 CLOSING obstacle detection motor 1 OPENING obstacle detection motor 1 CLOSING Slowdown obstacle detection motor 1 OPENING Slowdown obstacle detection motor 1 CLOSING Thermal protection - The automation	Impediments against the normal movement (obstacles) along the motor 2 closing travel Impediments against the normal movement (obstacles) along the motor 2 slowdown opening travel Impediments against the normal movement (obstacles) along the motor 2 slowdown closing travel Impediments against the normal movement (obstacles) along the motor 1 opening travel Impediments against the normal movement (obstacles) along the motor 1 closing travel Impediments against the normal movement (obstacles) along the motor 1 slowdown opening travel Impediments against the normal movement (obstacles) along the motor 1 slowdown opening travel - The using cycle exceeds the expected cycle	Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set. Increase the motor 2 force value setting Check and remove any obstacles. Check and remove any frinctions or other obstacles which reqired a motor force bigger than the one previously set. Increase the motor 2 force value setting Check and remove any obstacles. Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set. Increase the motor 2 force value setting Check and remove any obstacles. Check and remove any obstacles. Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set. Increase the motor 2 force value setting Check and remove any obstacles. Check and remove any obstacles. Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set. Increase the motor 1 force value setting Check and remove any obstacles. Check and remove any obstacles. Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set. Increase the motor 1 force value setting Check and remove any obstacles. Check and remove any obstacles. Check and remove any obstacles. Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set. Increase the motor 1 force value setting Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set. Increase the motor 1 force value setting Check and remove any frinctions or other obstacles which required a motor force bigger than the one previously set. Increase the motor 1 force value setting Check and remove any obstacles. Check and remove any obst	AMPEROSTOP TER

	Instantaneous thermal protection	- The using cycle exceeds the expected cycle, with an high	- Wait for the automation's cooling	–
ER41	- The automation stops the manoeuvre in progress	probability of failure which force the motor to stop immediately - High absorptions during the ER40 completion manoeuvre	Check and remove any frinctions or other obstacles which cause an high motor's absorption Check motor's suitability with the type of leaf to move	/IC
ER50	Communication error	Wiring error between serial devices accessories (SCS) Failure on the serial communication management circuit Disturbs which matches each other on the serial wiring	Check wiring connection and positioning of the serial expansion accessories devices - Check parameters and logics setting of the control board - Serial expansion boards replacement - Reparation: replacement of serial communication circuit components control board	COMU
ER51	Communication error with remote devices (opposite leaves)	Wiring error between serial devices accessories (SCS) opposite leaves Error on serial communication control circuit Disturbs which matches each other on the serial wiring	Check wiring connection of the serial expansion accessories device - Check parameters and logic setting of the control board - Check serial wires position on dedicate pipeline (NO with power supply wires) - Serial expansion boards replacement - Reparation: replacement of serial communication circuit components control board	COMUNICATION
ER61	Battery back up functioning	- Power supply is missing	- Check the power supply, the batteries will be discharged after few manouvres	BATTERY
ER71*	Generic EEPROM error	Hardware and microprocessor's operation defective	- Repair: replace Microprocessor, EEPROM, Oscillator	F
ER72*	EEPROM error on the criteria of operation of the system	Hardware and microprocessor's operation defective	- Press ok for confirming the settings. Important to check the settings of the board - Check restore of operation by pressing the "OK" button to default the board - Repair: replace Microprocessor, EEPROM, Oscillator	I RMWARE
ER73*	EEPROM error on working traject - D Track	Hardware and microprocessor's operation defective	- Make again Autoset - Check restore of operation by pressing the "OK" button to default the board - Repair: replace Microprocessor, EEPROM, Oscillator	1W
ER74*	Generic MICRO error	Hardware and microprocessor's operation defective	- Repair: replace Microprocessor, EEPROM, Oscillator	A _R
ER75*	Generic OSCILLATOR error	Hardware and microprocessor's operation defective	- Repair: replace Microprocessor, EEPROM, Oscillator	Ε
ERF0	Both limit switches actived	Both limit switches show opened contact Hardware failure of limit switch inputs circuit	- Check limit switches wiring and/or contacts - Reparation:input circuit components replacement	LIM
ERF1	Limit switches not released after the start manoeuvre	Contact of the last limit switch detected has not closed after a start command Released motor Hardware failure of limit switch inputs circuit	- Check limit switches wiring and/or contacts or motor - Unrelease the motor - Reparation:input circuit components replacement	LIMIT SWIT
ERF2	Limit switch still engaged after starting of the maneuver on the SLAVE operator in opposite leaves situation			WITC
ERF3	With opposite leafs errors on the SAFE settings	Wrong configuration of the output SAFE	- check the configuration of the output SAFE - check in the D66 manual	Н
ERF9	Electric lock output overload	- Not adjustable electric lock with high absorption - 24V output and/or electric lock shortcircui	- Check electric lock wiring - Use click electric lock 2A max - Check and replace any short circuit electric lock - Check short circuit on accessories wired up to 24Vsafe output - Reparation:replacement of 24Vsafe output circuit components and electric lock	ELECTRIC LOCK
ER1A	no sync from the main power 230V or 120V	Could be aproblem from the main power, sunc absent or failure on the component inveolved for the sync on the board	- If the error doesn't disappear , replace the board - Chek the sync from the main power	SYNC
	Board in test mode	Fw issue	Update the board with the proper related fw	SYSTEM
ER00TE				
ER00TE K01	autoset not done correctly	any external command have not completed the autoset procedure	Repeat The AUTOSET	
	·	any external command have not completed the autoset procedure linstallation done with a run gate of 50 cm (minimum run of 50 cm) Installation is too eleastic-dinamic	Repeat The AUTOSET Install the gate with a run over the 50 cm Provide to make a bit stronger the installation using a mechanical block	AUTOSET

ER7X*

According to the normative EN60335-2-103 that manages the fw related to class Bhave been added new controls in the firmwares so we can certify also the firmware included into the board. The controls are mandatory where the microprocessor manages security function. With this controls made from the firmware on the routines and processes have been also created a new error group starting from 7x. the controls are made on the microprocessor and on its related components like ram memory, flash memory, system register, program counter, and oscillator. The controls on these components and processes are made automatically every hour or after each reset whaen the motor is not working

NOTE : In the case the control board pilots one single motor, it is assumed motor 1