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PRODUCTS

Customer Care - EMEA
Training and Operations Support
Technical Support

Publication
number

599 74 52-36

EN

**ELECTROLUX
WASHING MACHINE
SERVICE MANUAL**

Edition: 07/2011 - Rev. 02

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1 TECHNICAL FEATURES

- Capacity : 6 kg
- Colour : White
- Spinning : 800 RPM
- Voltage : 220-240 V
- Frequency : 50 Hz
- Ampere : 10 A
- Total electrical power : 2200 W

2 COMPONENTS

2.1 Drain pump

Component which is used to drain the water inside the machine. It has an asynchronous motor inside. Pump filter must be cleaned periodically.

2.1.1 Technical Feature

Nominal voltage	230 V
Nominal current	0.2 A
Nominal power	30 W
Frequency	50 Hz
Resistor (coil)	170 Ω ($\pm 7\%$)
Water flow:	18 l/min(to 1 m height)
Thermal protector	YES



2.2 Heating element

Heating element (Resistance) is a component which is designed to increase the temperature of water inside the drum.

2.2.1 Technical Feature

Kind of heating
Tubular heating element with NTC – sensor

Nominal voltage	230 V
Nominal power	1850 W ($\pm 5\%$)
Resistance	26.96-29.80 Ω
Thermal fuse	2 – sided



2.3 NTC

Component which sends signals to PCB about the water temperature inside the tub. The Ohm value of the NTC decreases when the temperature increases.



2.3.1 Technical Feature

Tem (°C)	R nom (Ω)	R min (Ω)	R max (Ω)	Δ R (+/- %)
-10,00	58.722,00	54.874,00	62.570,00	6,60
- 5,00	45.778,00	42.961,00	48.596,00	6,20
0,00	35.975,00	33.900,00	38.050,00	5,80
5,00	28.516,00	26.977,00	30.055,00	5,40
10,00	22.763,00	21.616,00	23.910,00	5,00
15,00	18.279,00	17.421,00	19.137,00	4,70
20,00	14.772,00	14.128,00	15.417,00	4,40
25,00	11.981,00	11.497,00	12.464,00	4,00
30,00	9.786,00	9.421,00	10.150,00	3,70
35,00	8.047,00	7.772,00	8.322,00	3,40
40,00	6.653,00	6.444,00	6.861,00	3,10
45,00	5.523,00	5.365,00	5.680,00	2,80
50,00	4.608,00	4.489,00	4.726,00	2,60
55,00	3.856,00	3.767,00	3.945,00	2,30
60,00	3.243,00	3.178,00	3.308,00	2,00
65,00	2.744,00	2.681,00	2.808,00	2,30
70,00	2.332,00	2.273,00	2.392,00	2,50
75,00	1.990,00	1.934,00	2.045,00	2,80
80,00	1.704,00	1.653,00	1.755,00	3,00
85,00	1.464,00	1.416,00	1.511,00	3,20
90,00	1.262,00	1.218,00	1.305,00	3,40
95,00	1.093,00	1.053,00	1.133,00	3,70
100,00	949,90	913,20	986,60	3,90

2.4 Valve

Component which is designed to get water from the network system into the washing machine.



2.4.1 Technical Feature

Nominal voltage	220/240 V
Frequency	50/60 Hz
Nominal power	8 VA
Rated flow	6 l/min ($\pm 15\%$) (for cold inlet) 5.5 l/min ($\pm 15\%$) (for hot inlet)
Operating water pressure	0.2-10 bar

2.5 Pressure switch

Pressure Switch level changes according to the water level in the tub, as a result of the changes in the pressure switch level, the water consumption is set.



2.5.1 Technical Feature

Voltage :	250
Ampere :	Between 16 and 4

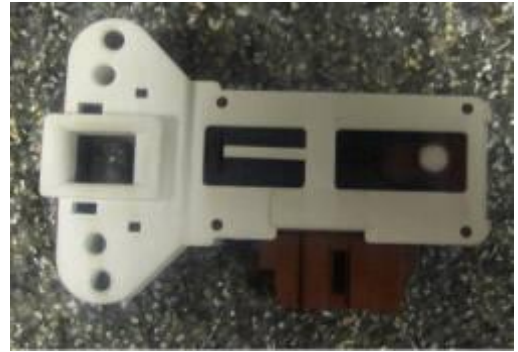
Maximum flow over the pressure switch can be between 16 and 4 amperes.

2.6 Door lock

Door lock is activated in the beginning of the program in order to prevent the door from opening. It can be unlocked approximately after 2 minutes of the program end. This time delay is caused by the PTC which is assembled in the door lock.

2.6.1 Technical Feature

Lock time (20°C)	2" - 6"
Unlock time (20°C)	35" - 75"
Nominal voltage	250 V
Nominal current	16(4) A



2.7 Power cable

Power cable supplies the energy for the machine from the network.

2.7.1 Technical Feature

Voltage :	250 V
Ampere :	16 A



2.8 Motor

The washing machine has an asynchronous motor. It is controlled by the PCB.

2.8.1 Technical Feature

Voltage:	220-240 V
Frequency:	50 Hz



2.9 Electronic card

Electronic card (PCB) is the control department of the washing machine. PCB gets and sends signals to electrical components. All the program software is loaded in PCB.

2.9.1 Technical Feature

Voltage : 160 V – 265 V



2.10 Energy label

LOGO:XXXXXX
MODEL:XXXXX

ENERGY PERFORMANCE

A

ENERGY CONSUMPTION

5 KG : 0,95 kWh/program
6 KG : 1,14 kWh/program
7 KG : 1,33 kWh/program
7,5KG : 1,42 kWh/program

WASHING PERFORMANCE

A

SPINNING PERFORMANCE

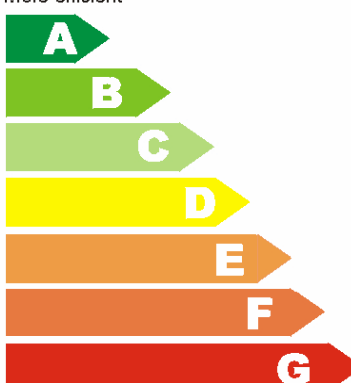
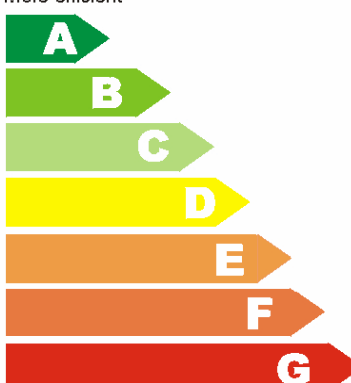
600 RPM : E
800 RPM : D
1000 RPM : C
1200 RPM : B
1400 RPM : B
1600 RPM : A

CAPACITY


5 KG
6 KG
7 KG
7,5 KG

WATER CONSUMPTION

5 KG : 43 lt
6 KG : 49 lt
7 KG : 62 lt
7,5 KG : 63 lt

Energy		Washing Machine
Manufacturer	LOGO	
Model	XXXXX	
More efficient		
Less efficient		
Energy consumption kWh/program (Based on standart test made at 60°C cotton wash program) <small>Actual consumption will depend on how the appliance is used and where it is located.</small>	X.XX	
Washing performance A: High B: Low	A B C D E F G	
Spinning performance A: High B: Low	A B C D E F G	
Spin speed (rpm)	XXXX	
Capacity (cotton) kg	XX	
Water consumption lt Loud (Dbre 1 pW) Washing Spin	XX	
Further information is contained in product brochures.		
Norm EN 60456		

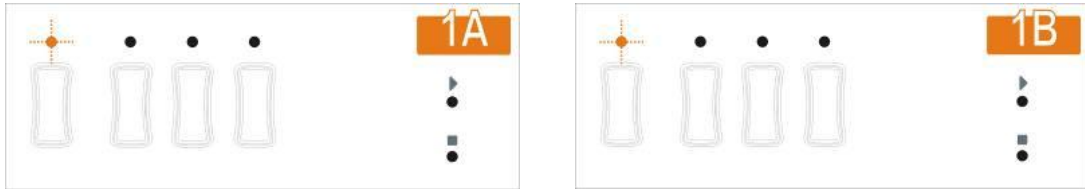
2.11 Name plate

ZANUSSI		Serial no:072700001 Product no:914579978
MODEL: [REDACTED]	BASIC TYPE NO: [REDACTED]	
220-240V ~ 50Hz 10A	MADE IN EUROPE	KEMA CEUR
1000/min	CE	IPX4
W Max 2200W		0000
 SN:00613526000301820004		20648926070723 0000 20648926: label code 07: year 07: month 23: day 0000: Service index number
00613526000301820004: VESTEL serial number 0:blank 0613526: product code 00030182: order for goods number 0004: numarator		

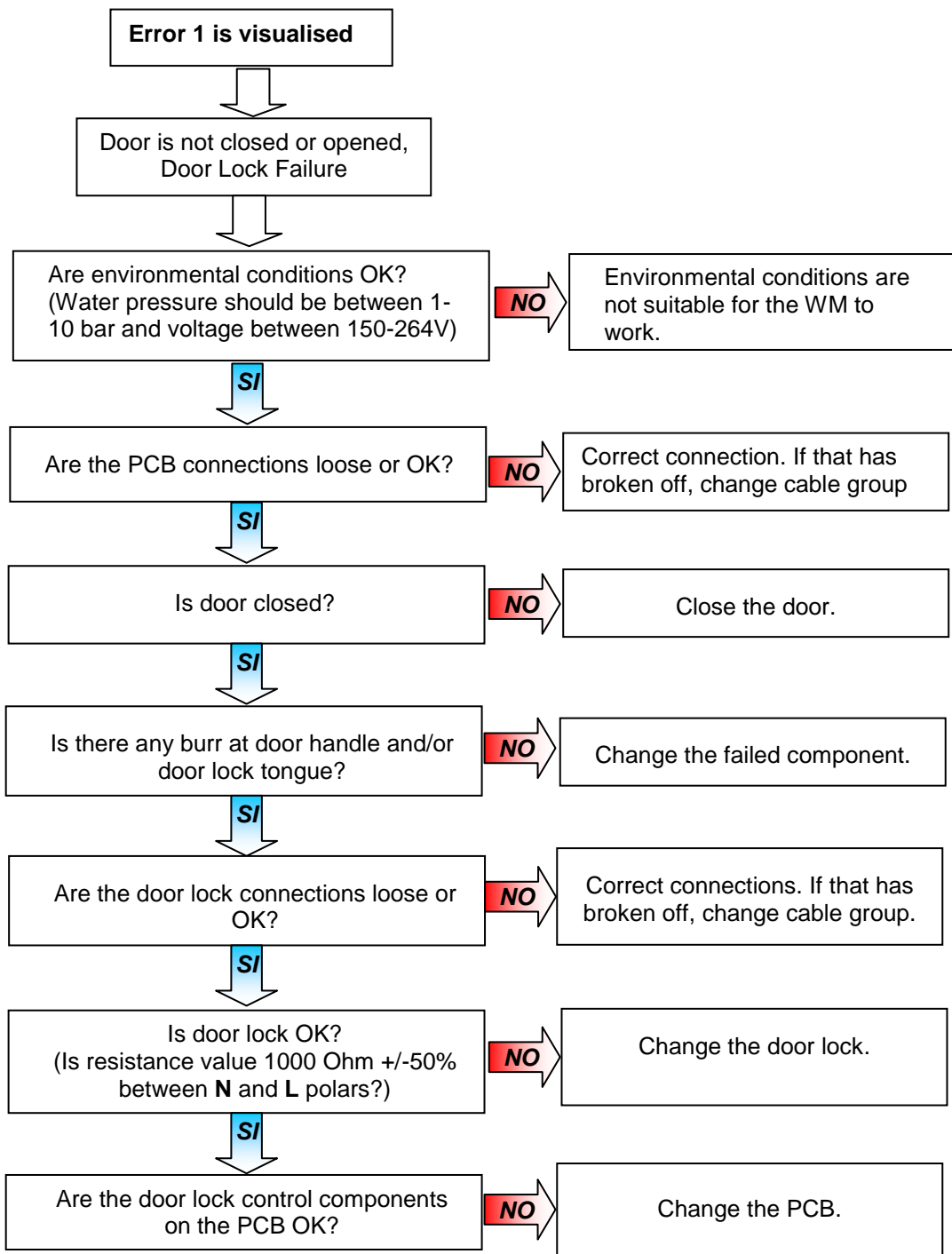
3 FAILURE CODES FOR A-B SERIES

3.1 Failure code 1

A- Failure indicator situations



B Error flowcharts

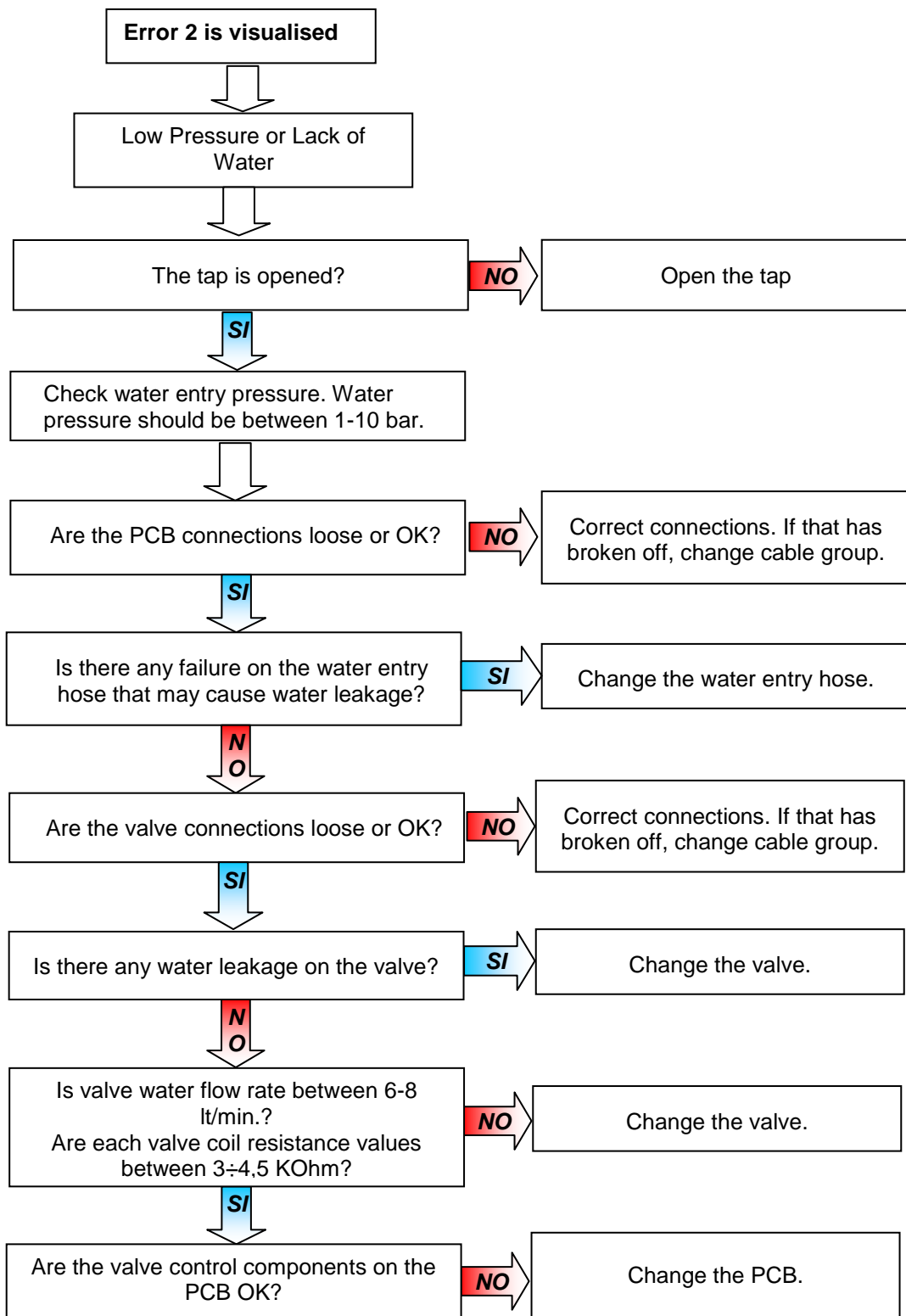


3.2 Failure code 2

A- Failure indicator situations

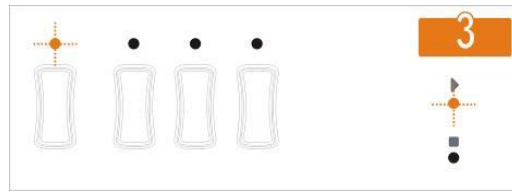


B- Error flowcharts

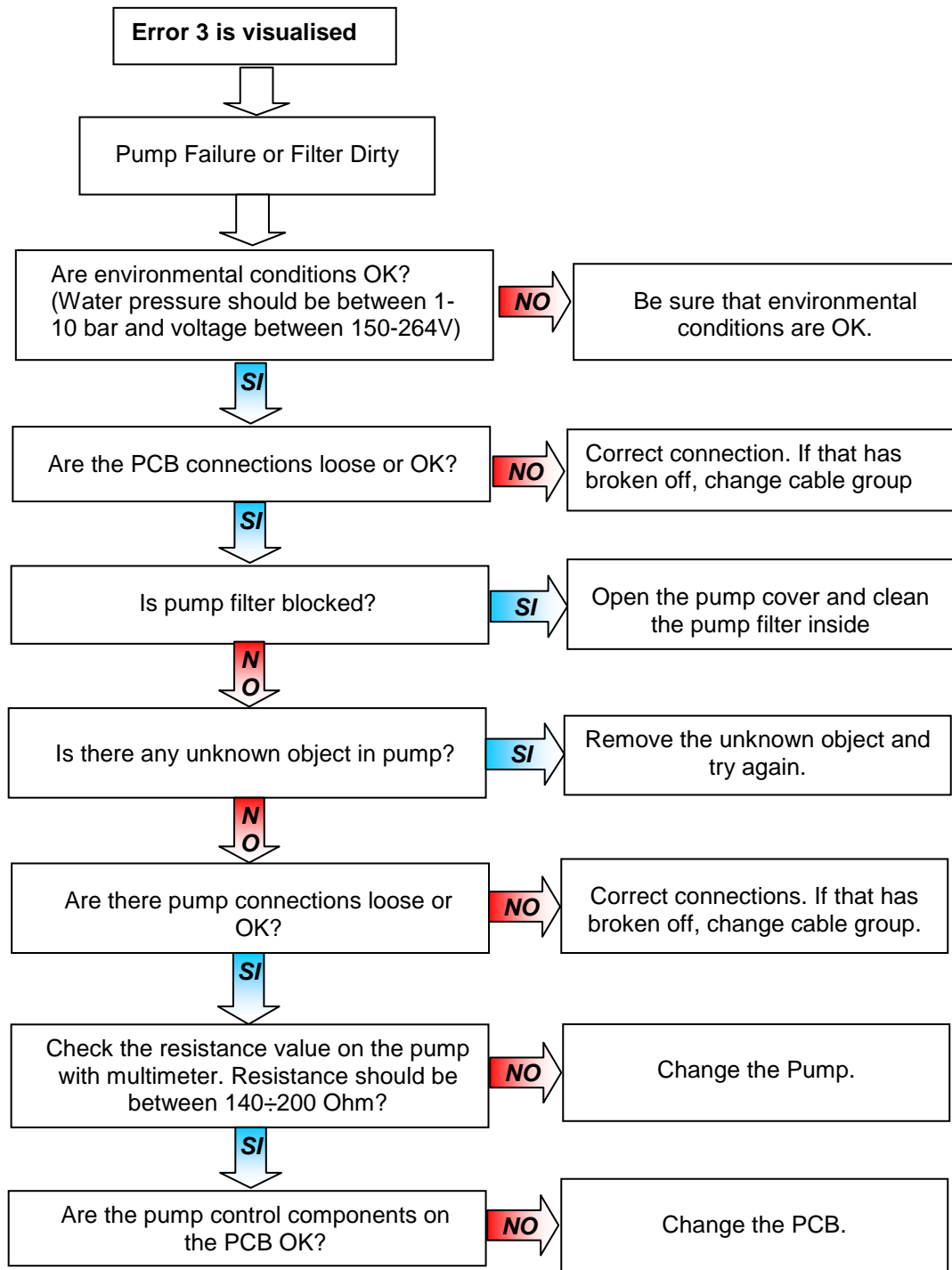


3.3 Failure code 3

A- Failure indicator situations

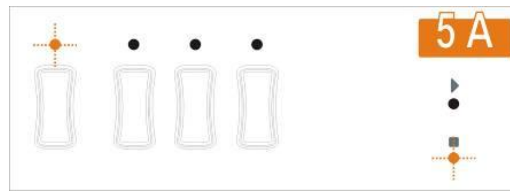


B- Error flowcharts

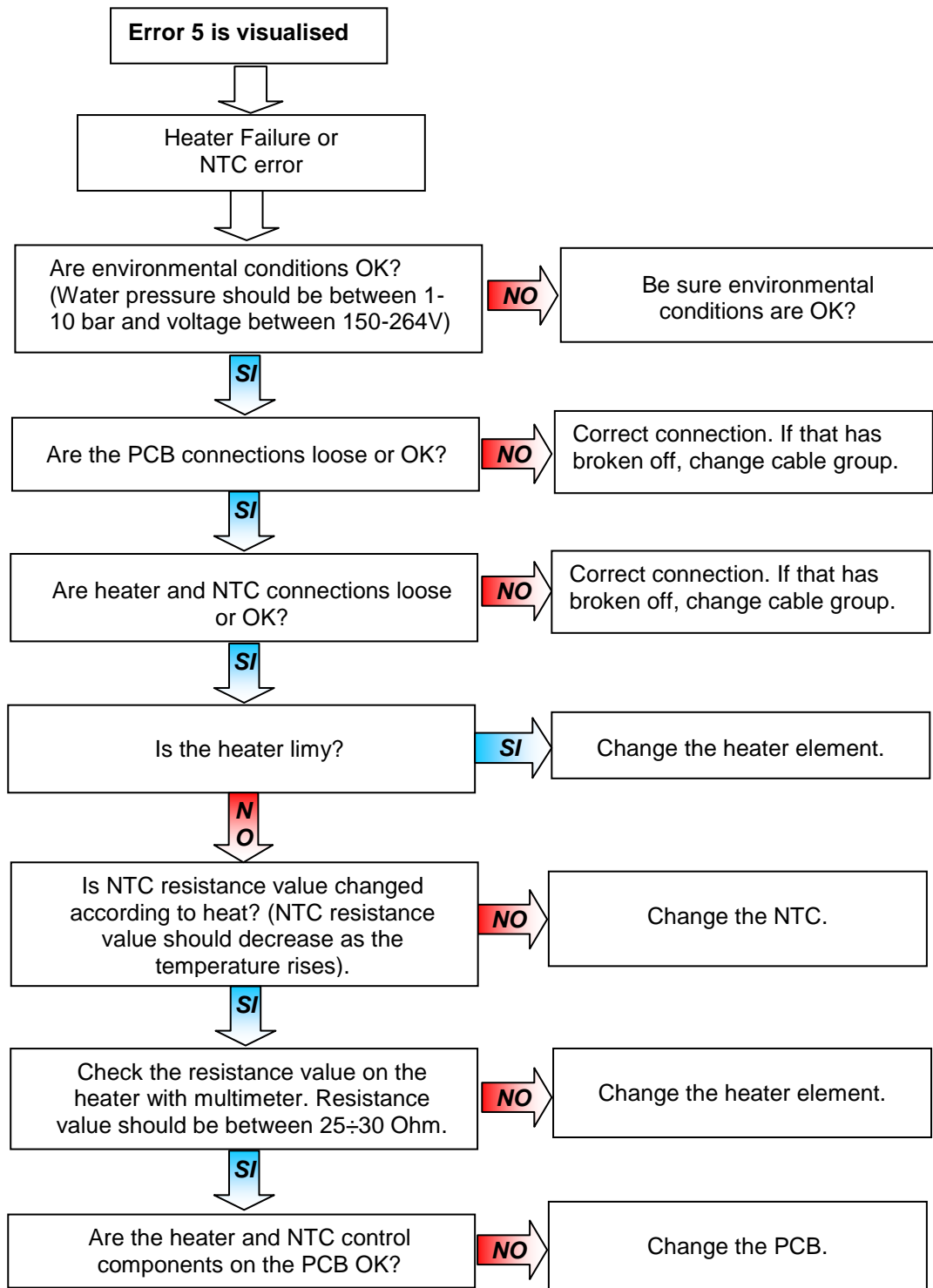


3.4 Failure code 5

A Failure indicator situations

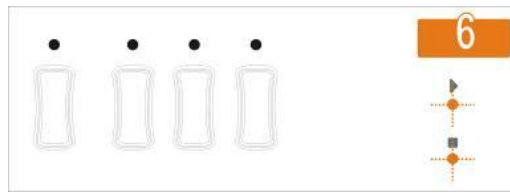


B- Error flowcharts

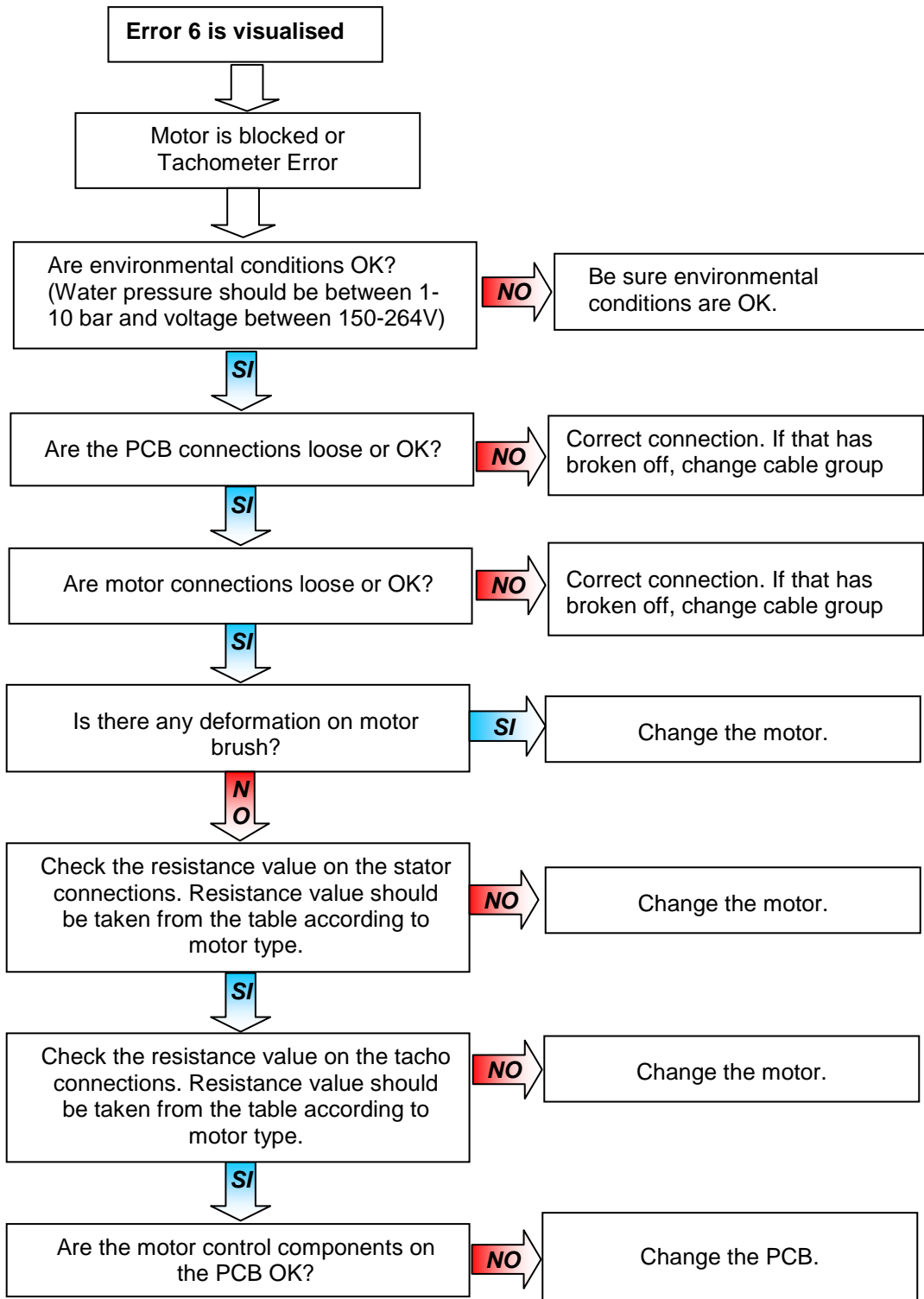


3.5 Failure code 6

A- Failure indicator situations

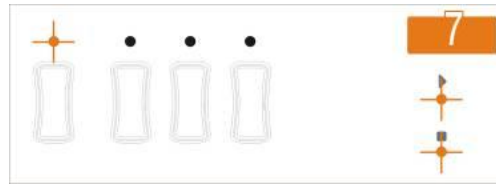


B- Error flowcharts

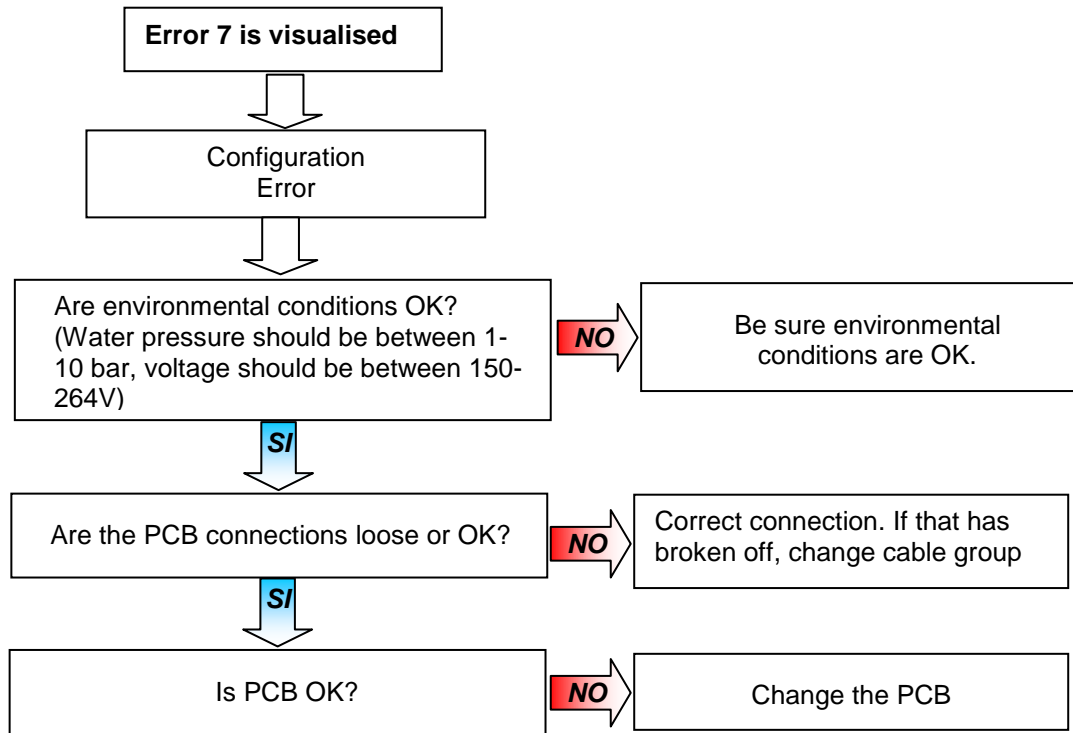


3.6 Failure code 7

A- Failure indicator situations

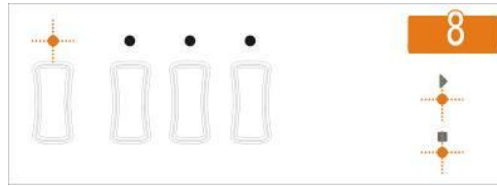


B- Error flowcharts

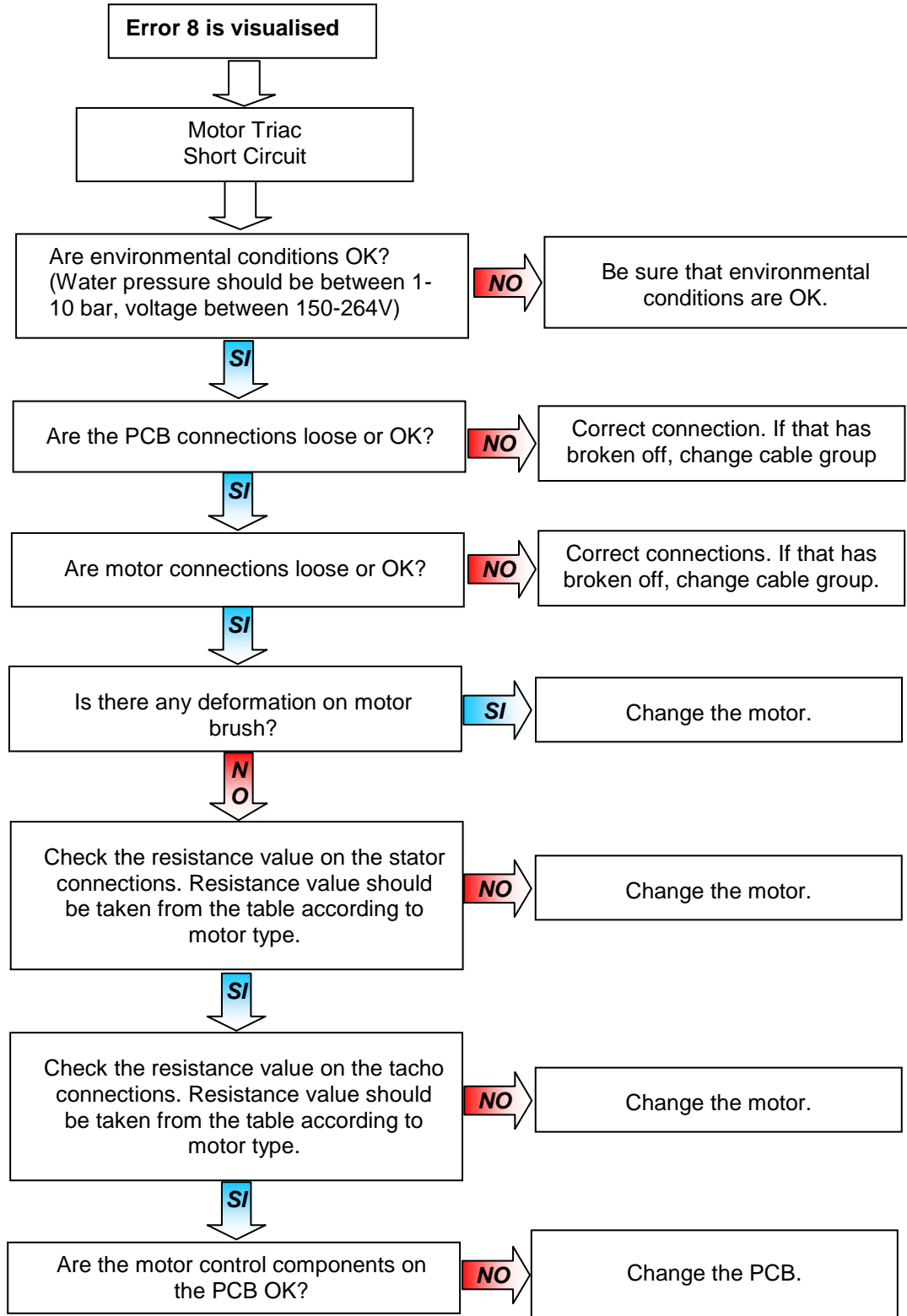


3.7 Failure code 8

A- Failure indicator situations

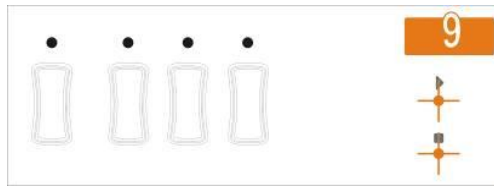


B- Error flowcharts

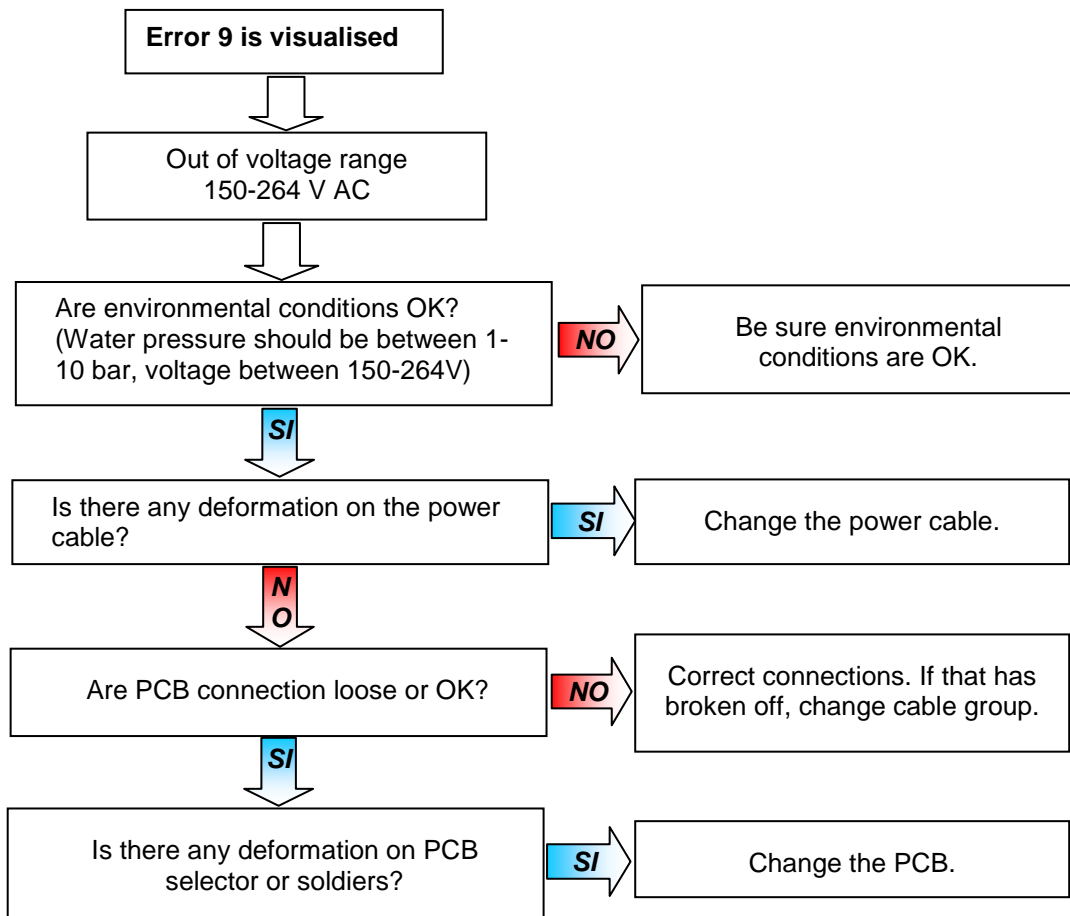


3.8 Failure code 9

A- Failure indicator situations



B- Error flowcharts



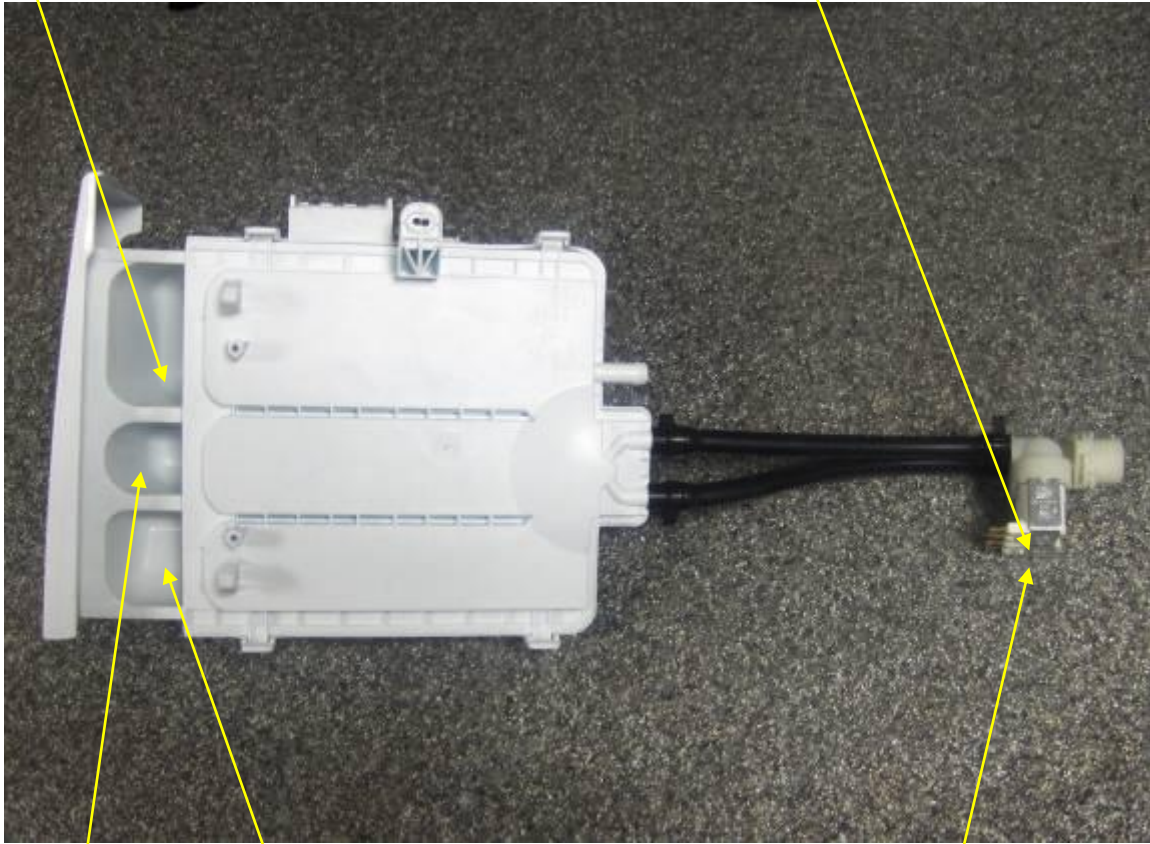
AUTO TEST PROGRAM

Time in seconds (to be adusted)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	
Entering autotest	█	█	█																										
Changing power to 220 50Hz		█																											
Main Voltage 50Hz				█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	
Door Lock Powered (Depends on door lock)			█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	
Motor Ramp to max spin				█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	
Time until motor is stopped (Depends on the motor stop time)										█	█																		
Motor Preferred Run (Direction to Right)													█	█															
Motor Inverse Run (Direction to Left)																													
EV1 0.16 Vs(flowrate dependent of washer)				█	█																								
EV2 0.16 Vs(flowrate dependent of washer)						█	█	█	█																				
EV Hot																													
Test stopped until option 1 is pressed (led																													
PW+W valves up to pressure switch level (Depends on the water level)																													
Heater resistance																													
Pump																													

4 DETERGENT BOX GROUP WORK PRINCIPLE

MAIN

VALVE 1



SOFTENER

PREWASH

VALVE 2

PREWASH = WATER ENTRY VALVE 1
MAIN = WATER ENTRY VALVE 2
SOFTENER = WATER ENTRY VALVE 1 + VALVE 2

5 DISASSEMBLY

5.1 Top plate

Remove two screws that fix the top-plate at the back.



Push the top-plate back and pull it up.



5.2 Door

Remove two screws that fix the door.



Pull the door up.



Remove eight (8) screws that fix the door group.



Put the door outside plastic with helping screwdriver as it is shown in the picture.



Remove the door inside plastic as it is shown in the picture.



Remove two screws that fix the door hinge as it is shown in the picture.



Remove the door handle as it is shown in the picture.



Remove the door handle pim as it is shown in the picture.



Remove the door handle spring as it is shown in the picture.



5.3 Gasket

Pull the gasket as it is shown in the picture.



Remove the gasket-body fixing spring.



5.4 Detergent drawer

Remove the detergent drawer and pull it up carefully.



5.5 Control panel

Remove three screws which fix the control panel to the front panel.



Remove two screws fixing the control panel.



Remove one screw fixing the detergent box group.



Pull the control panel up.



Remove wires as it is shown in the picture.



Remove electronic card cover as it is shown in the picture.



Remove the electronic card as it is shown in the picture.



5.6 Kickplate

Remove the right part of the kickplate as it is shown in the picture



Remove the screw fixing the kickplate.



Pull the kickplate left and push it down.



Remove the kickplate as it is shown in the picture.



5.7 Front panel

Remove two screws fixing the front panel at the bottom as it is shown in the picture.



Remove two screws fixing the door lock as it is shown in the picture.



Remove two screws fixing front panel at the upper as it is shown in the picture.



5.8 Upper support braket

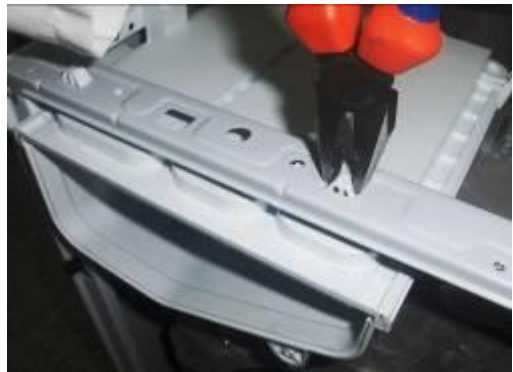
Remove two screws fixing the body group at the front as it is shown in the picture.



Remove two screws fixing the body group at the upper as it is shown in the picture.



Remove detergent drawer group clips fixing the upper support bracket as it is shown in the picture.



5.9 Detergent drawer housing

Remove the tub seal connector, which is attached to the detergent drawer housing.



Remove the wire that is connected to the valve as it is shown in the picture.



Remove the valve connection.



Remove the detergent drawer housing assembly.



5.10 Power cable group and parasite filter

Remove the wire that is connected to the parasite filter.

Remove two screws fixing the parasite filter.



Remove the power cable group as it is shown in the picture.



5.11 Pressure switch

Remove the wire that is connected to the pressure switch.



Remove the pressure switch as it is shown in the picture.



Remove the pressure switch hose handcuffs And pressure switch hose as it is shown in the picture.



5.12 Door lock

Remove the wire that is connected to the door lock.



5.13 Pump motor

Remove pipe clip that fixes the drain hose.



Remove pipe clip fixing the tub outlet hose.



Remove the wire that is connected to the pump motor.



Remove four screws fixing the pump motor.



5.14 Heater

Remove the wire that is connected to the heater.



Remove one nut fixing the heater.



5.15 Front counterweight

Remove four screws fixing the front counterweight on the front.



Pull the counterweight back.



Hold the gasket and gasket-body fixing spring together, and pull them up.



5.16 Shock absorber pim

Remove two pims fixing the shock absorber.



5.17 Upper counterweight

Remove two screws fixing the upper counterweight.

Recommended torque : 16.5 N



5.18 Washing group

Remove four screws fixing the spring hanger sheet iron.



Remove the washing group as it is shown in the picture.



5.19 Belt

Remove the belt as it is shown the picture.



5.20 Driven pulley

Remove the screw fixing driven pulley it is shown the picture.



5.21 Motor

Lay down the machine with an angle of 45° to the floor. Disconnect wires and remove the screws fastening the motor under the tub. Pull the motor up for disassembly.



5.22 Tub

Remove seventeen screws fixing tub.

Recommended torque : 4.65 N



6 AUTOTEST MANUAL

Turn the program knob from Stop position to 3.



Press the first function button which is near the On / Off button.



While pressing the first function button (Don't Release) turn the program knob to 2.



Release the button. The light will be on as shown in the picture.



Press the first function button again (The light goes out). While pressing the function button (Don't release) turn the program knob to 1.



Unrelease the button. After 3 seconds two signal lights will be on as shown in the picture. Door will be locked and the machine starts the Auto-Test program.



When the LED of the first function button flashes push the second button and continue autotest



7 CHILD LOCK

Push start and function 2 button 5-7 second.



Then child lock is opened.



Push start and function 2 button 5-7 second again. Then child lock is closed.



REVISIONE:

Revisione	Data	Descrizione	Autore	Approvato da:
00	0X/201X	Creazione documento	XXXX	XX – 0X/201X
01	07/2012	Flow Chart modified pag. 9÷16 changed direction "test drive" pag. 17	DMM	XX – 0X/201X
02	07/2012	Flow Chart modified pag. 10 and 11	DMM	XX – 0X/201X