

T45



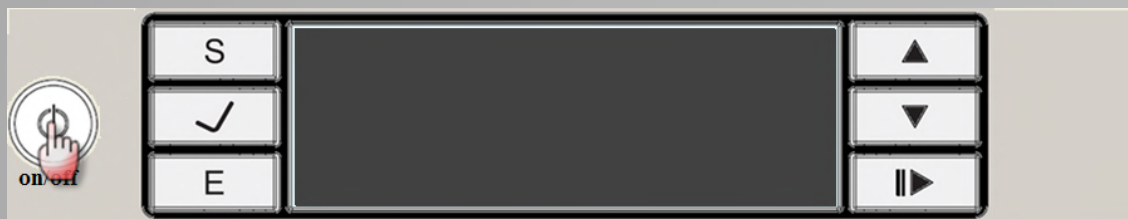
CONTROL BOARD



SERVICE TEST PROGRAMME

Only service man can execute this procedure.

- Power OFF; hold press S/P button.



- Power ON while pressing S/P button. Hold pressing at least for 6”.



- When “Service test” routine is recognized, “Service test” is shown on the LCD and Service test starts.



During the first 6” of test, if a failure code is stored in memory, its codification is shown. Also at the end of the test if an error occurs, its error code and name are visualized on LCD.

PROGRAMME ALGORITHM

Step	TEXT	Time	Tested Load
0		6"	Before start, the code of last error is visualized (see below)
1	Drain Pump 6s.	6"	Drain pump.
2	Water Fill 1m.	~ 1'	Flow meter; Inlet Valve;
3	Water Fill+Wash 25"		Flow meter; Inlet Valve; Pressure Switch;
4	Turbidity sense 30s.	30"	Measure of turbidity sensor
5	Wash+Dispenser 1m.	1'	Circulation pump; Regeneration Valve; detergent dispenser.
6	Wash+Heat 5m	5'	Heater (PSW); NTC; diverter (position).
7/8	Reg.Valve+T.Fan 1m.	1'	Regeneration Valve + Turbo Fan
9	Water V+ Drain 1m20s	1'20"	Water Valve ; Drain pump; pressure switch.
10	Drain Pump 20s.	20"	Drain pump
11	Service Test End		Error code or End led visualized on LED Module

WATER HARDNESS TEST

Testing strip

Open the testing strip.	Run water through your tap for 1 min.	Keep the testing strip in water for 1 sec.	Shake the testing strip after taking it out of water.	Wait for 1 min.	Make your machine's water hardness setting according to the result obtained through the testing strip.
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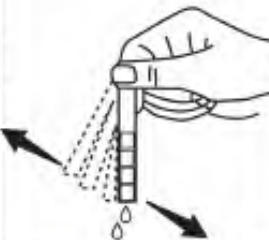
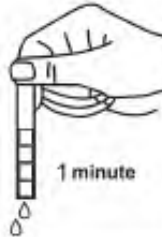
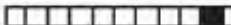
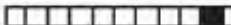
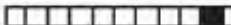
	 1 minute	 1 second		 1 minute	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Level 1</td> <td style="text-align: center; padding: 5px;">  </td> <td style="padding: 5px;">No Lime</td> </tr> <tr> <td style="padding: 5px;">Level 2</td> <td style="text-align: center; padding: 5px;">  </td> <td style="padding: 5px;">Very low lime content</td> </tr> <tr> <td style="padding: 5px;">Level 3</td> <td style="text-align: center; padding: 5px;">  </td> <td style="padding: 5px;">Low lime content</td> </tr> <tr> <td style="padding: 5px;">Level 4</td> <td style="text-align: center; padding: 5px;">  </td> <td style="padding: 5px;">Medium lime content</td> </tr> <tr> <td style="padding: 5px;">Level 5</td> <td style="text-align: center; padding: 5px;">  </td> <td style="padding: 5px;">Lime content</td> </tr> <tr> <td style="padding: 5px;">Level 6</td> <td style="text-align: center; padding: 5px;">  </td> <td style="padding: 5px;">High lime content</td> </tr> </table>	Level 1		No Lime	Level 2		Very low lime content	Level 3		Low lime content	Level 4		Medium lime content	Level 5		Lime content	Level 6		High lime content
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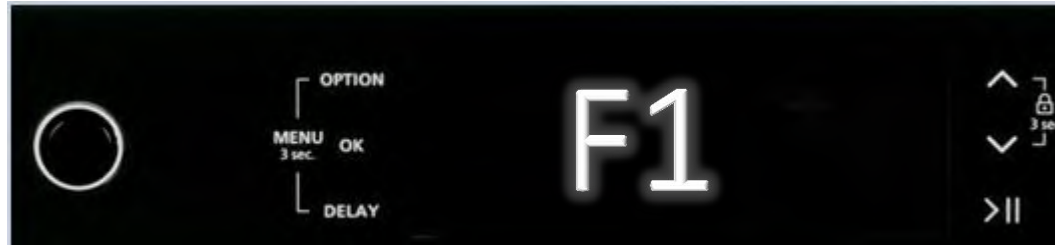
Table of Water Hardness Level Settings

Water hardness level	German hardness dH	French hardness dF	British hardness dE	Hardness Level Indicator
1	0-5	0-9	0-6	L1 is seen on display.
2	6-11	10-20	7-14	L2 is seen on display.
3	12-17	21-30	15-21	L3 is seen on display.
4	18-22	31-40	22-28	L4 is seen on display.
5	23-31	41-55	29-39	L5 is seen on display.
6	32-50	56-90	40-63	L6 is seen on display.

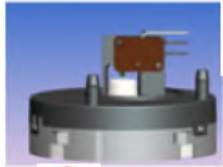
If the hardness of the water you use is above 90 dF (French hardness) or if you are using well water; you are recommended to use filter and water refinement devices.

NOTE: Hardness level is adjusted to level 3 as a factory setting.

ALARM IS ACTIVE FOR OVERFLOW (F1)



POSSIBLE PROBLEMS



FLOATER

Floater switch can be out of order or have a problem with the cable connection.



TUB

There can be a water leakage from the tub.



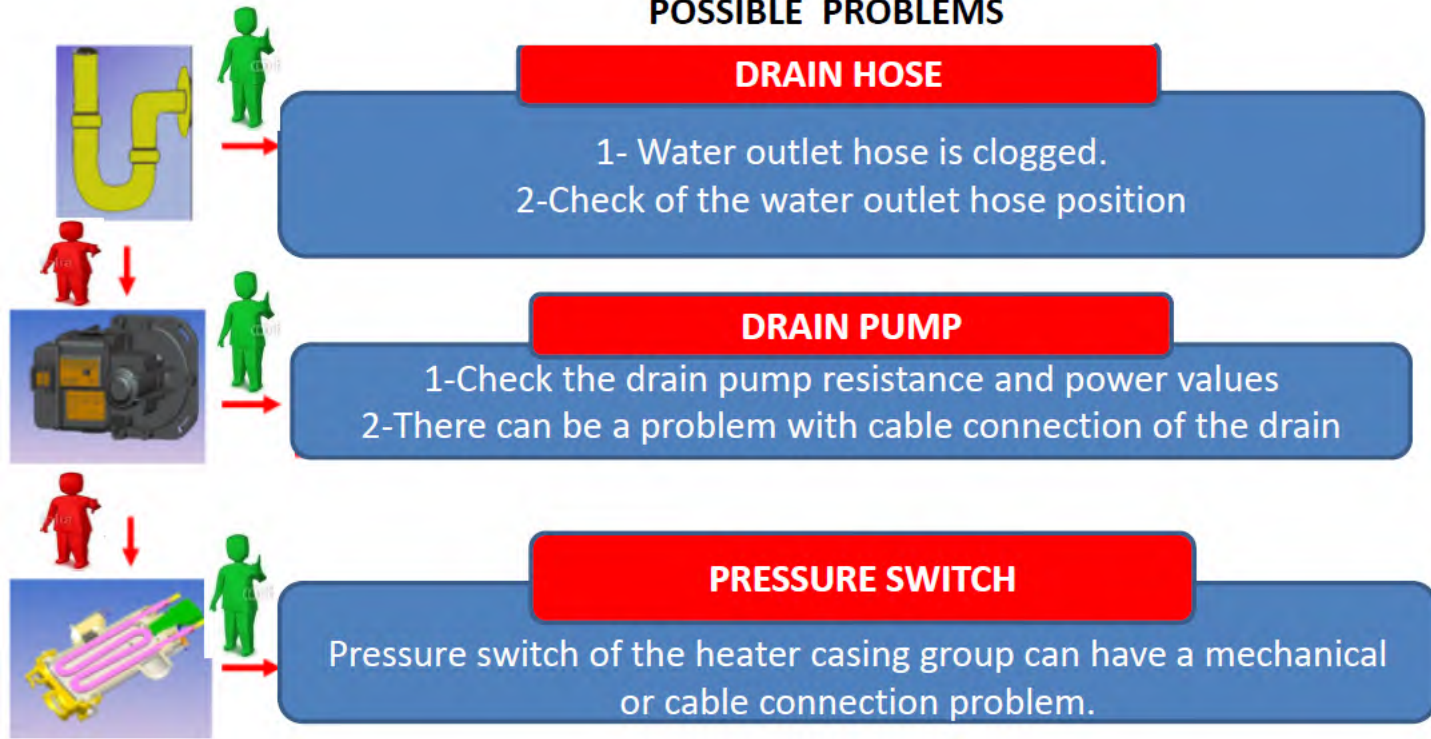
ELECTRONIC CARD

Electronic card can be out of order.

THE WASTE WATER IN THE MACHINE CANNOT BE DISCHARGED (F2)



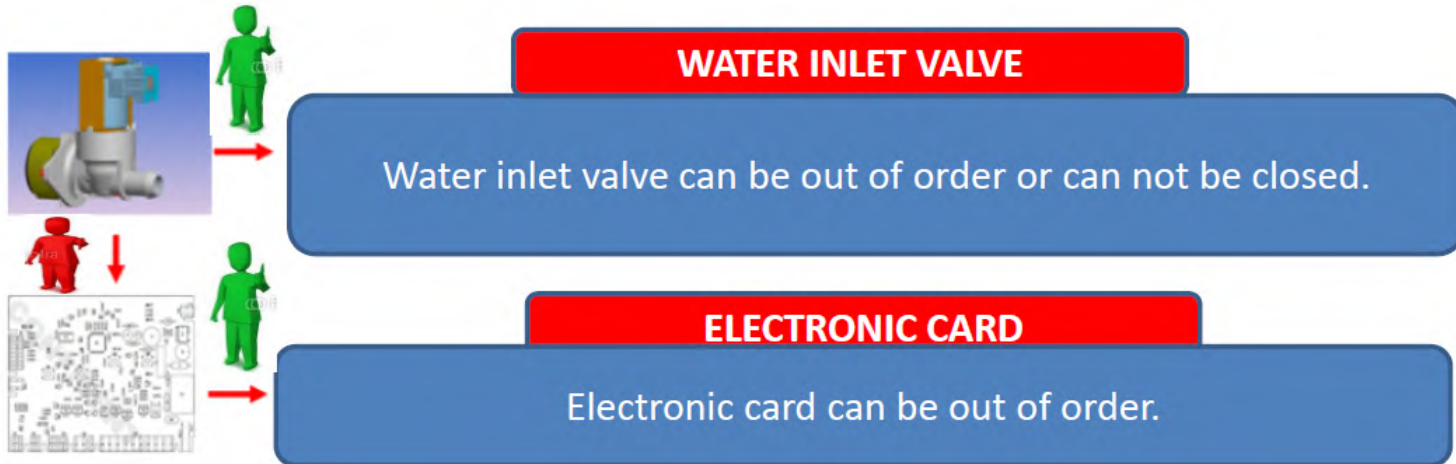
POSSIBLE PROBLEMS



ERROR OF CONTINUOUS WATER INPUT (F3)



POSSIBLE PROBLEMS



FLOWMETER FAULTY (F4)



POSSIBLE PROBLEMS



FLOWMETER

- 1-Flowmeter can be out of order.
- 2- Cable connection of flowmeter can be faulty.



ELECTRONIC CARD

Electronic card can be out of order.

INADEQUATE WATER SUPPLY (F5)

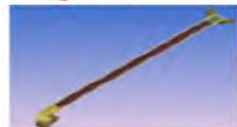
POSSIBLE PROBLEMS

WATER TAP



Make sure the water input tap is totally open and that there is no water cut.

WATER INLET HOSE



Close the water input tap, separate the water input hose from the tap and clean the filter at the connection end of the hose.

WATER INLET VALVE



- 1- Water inlet valve filter can be clogged.
- 2- Water inlet valve can be out of order. There can be a problem with the cable connection of water inlet valve.

FLOATER



Floater switch can be out of order or have a problem with the cable connection.

PRESSURE SWITCH



Pressure switch of the heater casing group can have a mechanical or cable connection problem.

CIRCULATION PUMP



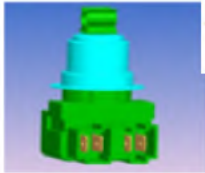
Circulation pump can be out of order or have a problem with the cable connection. External part can be blocked to the circulation pump

NTC FAULTY (F6)



POSSIBLE PROBLEMS

NTC



- 1- NTC can be out of order.
- 2- NTC cable connection can be faulty. NTC can be short or open circuit.



ELECTRONIC CARD



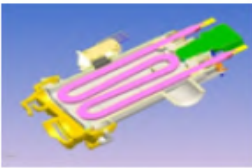
Check the power and resistance value of heater casing.
Check the cable connection of the heater casing

INADEQUATE HEAT (F8)

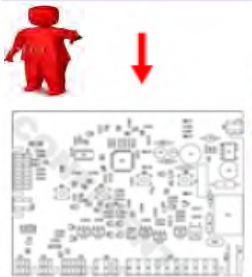


POSSIBLE PROBLEMS

HEATER



- 1- Check the power and resistance values
- 2- Check the cable connection of the heater.



ELECTRONIC CARD

Check the electronic card

DIVERTER POSITION PROBLEM (F9)



POSSIBLE PROBLEMS

DIVERTER



- 1-Check the values of the resistance of the diverter
- 2- Check the cable connection of the diverter



ELECTRONIC CARD

Check the electronic card

TURBIDITY SENSOR FAULTY (FA)

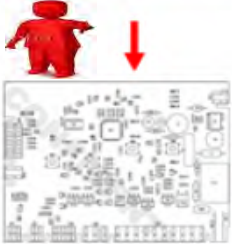


POSSIBLE PROBLEMS

TURBIDITY SENSOR



- 1- There can be some soil around the turbidity sensor.
- 2- Check the cable connection of the turbidity sensor

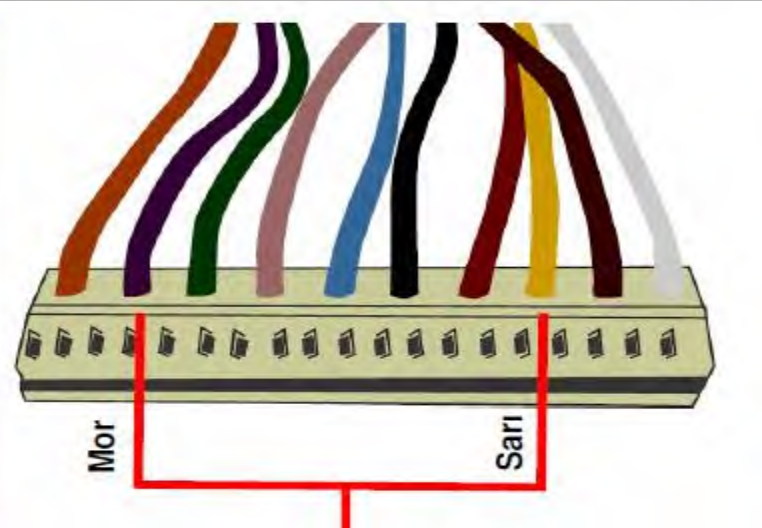
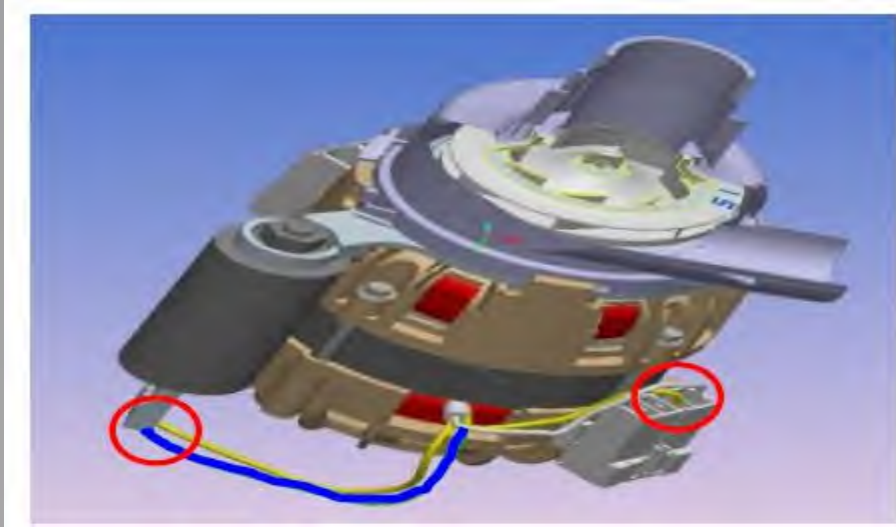


ELECTRONIC CARD

Check the electronic card

MEASURING OF THE COMPONENTS FROM THE ELECTRONIC CARD

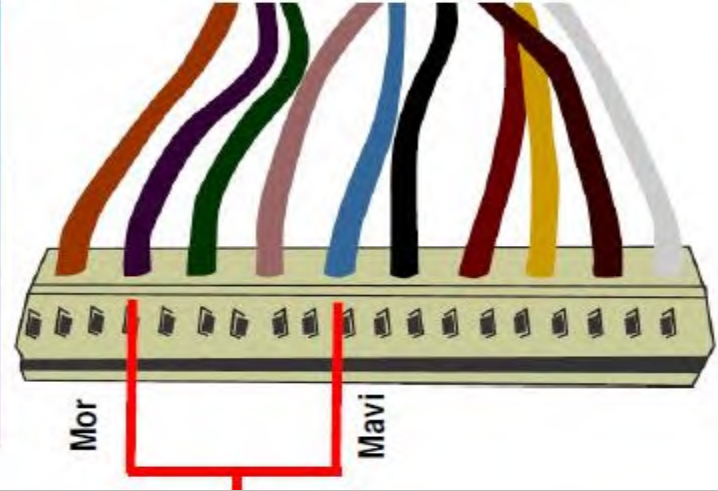
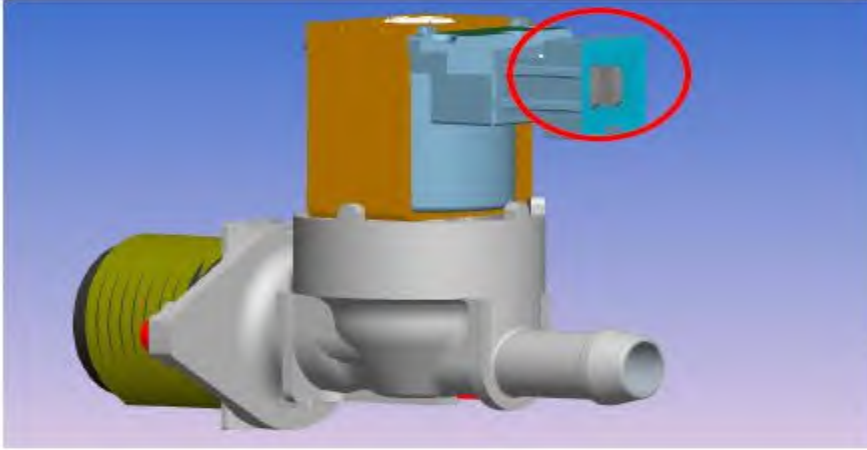
1. CIRCULATION PUMP



➤ Measurement of the secondary windings and primary windings of the washing pump

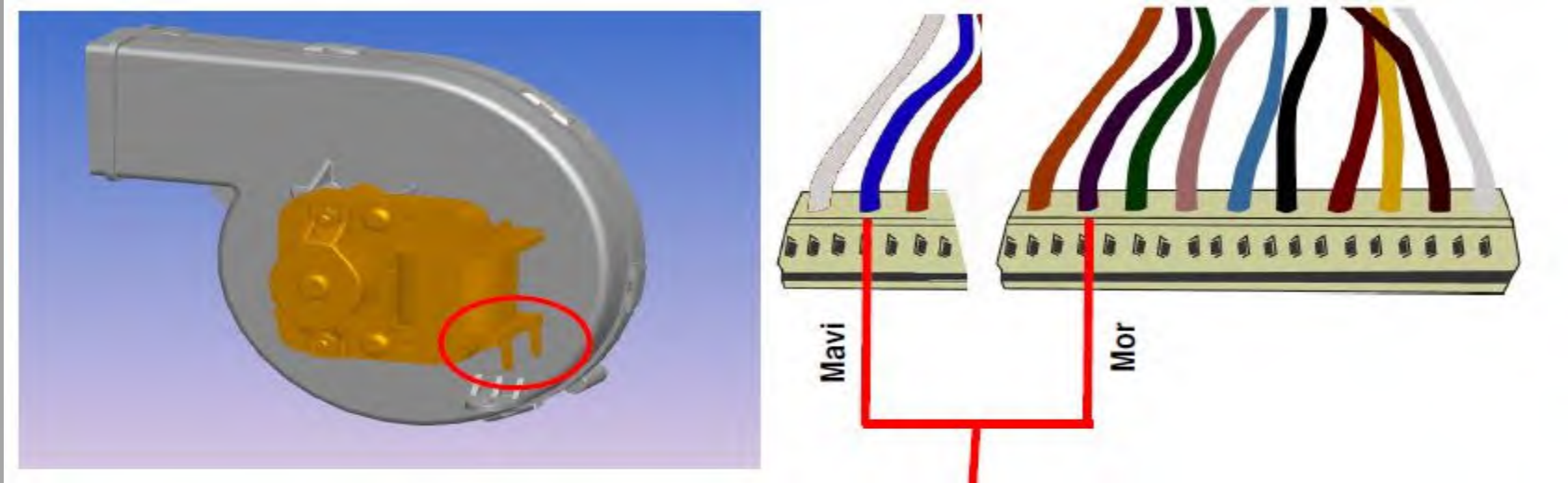
➤ Probes of the tester should be applied on to the related connectors. (purple and yellow cable))

2. WATER INLET VALVE



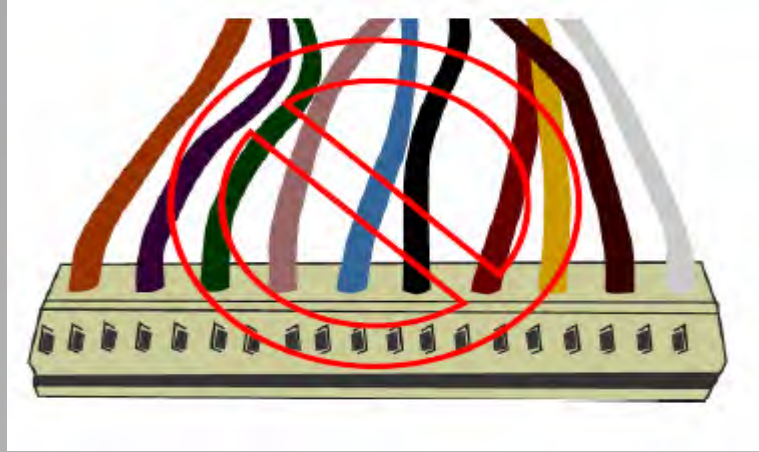
➤ Probes of the tester should be applied on to the related connectors. (purple and blue cable)

3. TURBO FAN MOTOR

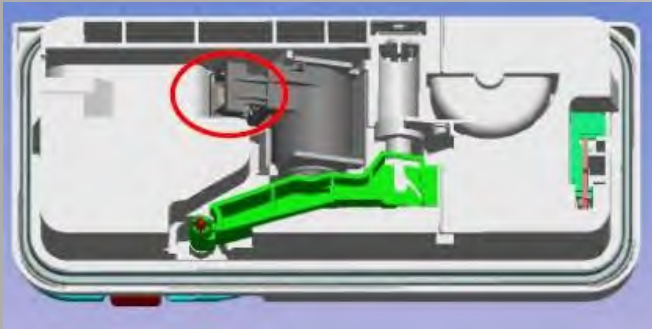


➤ Probes of the tester should be applied on to the related connectors. (blue and purple cable))

COMPONENTS COULD NOT BE MEASURED FROM THE ELECTRONIC CARD



DETERGENT DISPENSER



TURBIDITY SENSOR

