

# **SERIES DT2T**

## **MANUEL DE SERVICE**

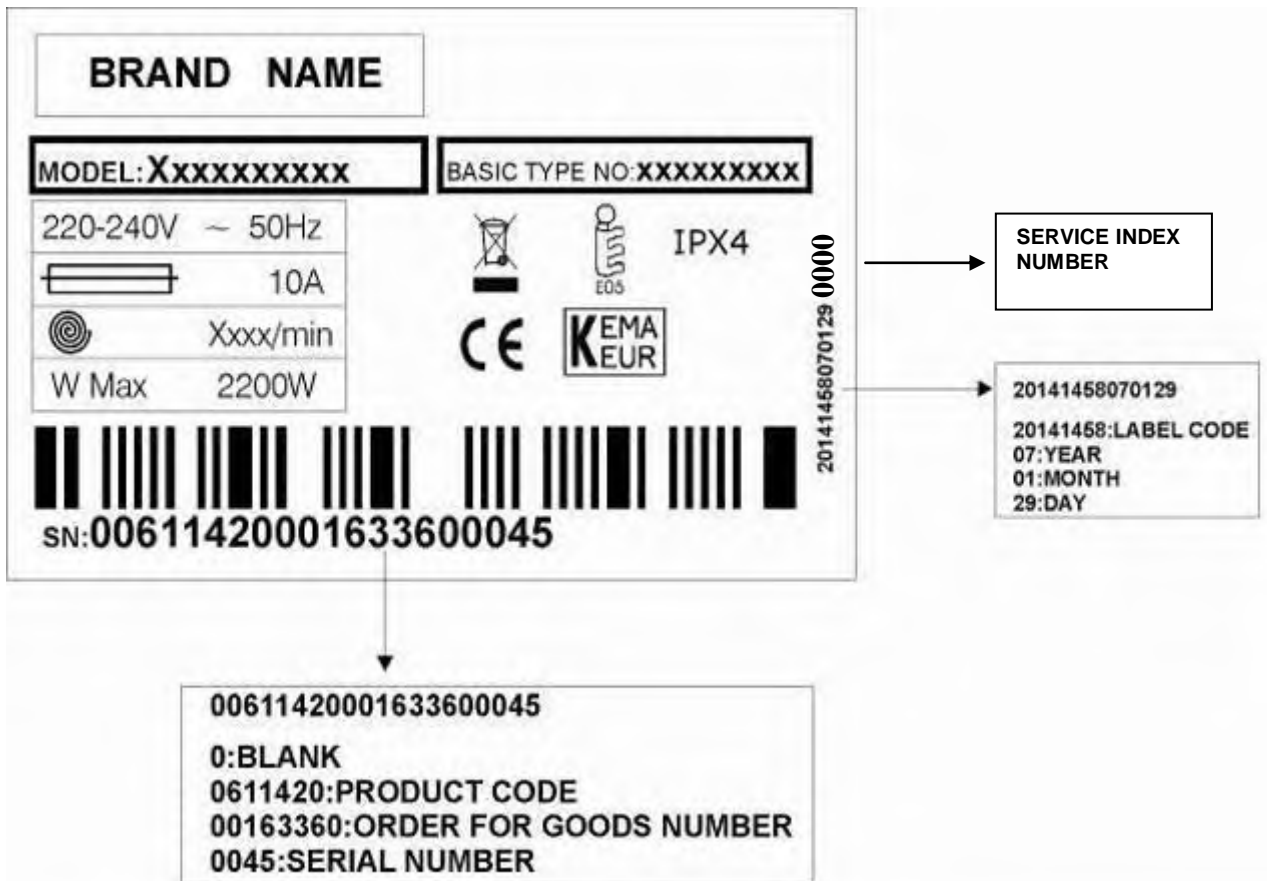


# 1. Specifications

## 1.1. Product Specifications

	60 LT	60 LT	61 LT BLDC	61 LT TOUCH	61 LT TOUCH BLDC	62 LT BLDC	62 LT TOUCH BLDC	62 LT TOUCH BLDC
Product Type	Front Loader							
Max Was Load Capacity	7 kg	8 kg	9 kg	9 kg	9 kg	9 kg	10 kg	10 kg
Max Dry Load Capacity	5 kg	6 kg						
Max Spin Speed (r/min)	1400 rpm							
Control Panel	LED display							
Wash Programs	15 settings							
Dimensions	Height	84,5 cm						
	Width	59,7 cm						
	Depth	58,2 cm						
Other Features	Child Lock							
	Delay Time							

## 1.2. Name Plate

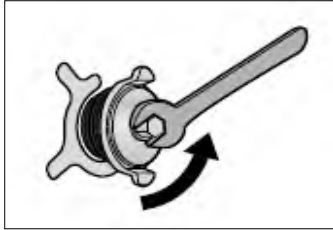


## 2. Installation Instructions

### 2.1. Moving and Installing

#### 2.1.1. Removal of Transportation Screw

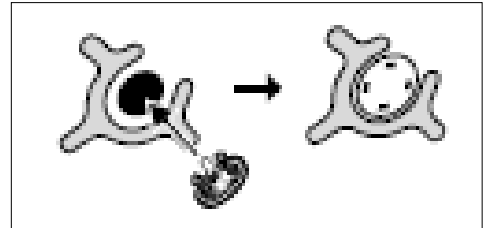
1. Transportation screws, which are located at the back side of the machine, must be removed before running the machine.
2. Loosen the screws by turning them anticlockwise with a suitable spanner.



3. Pull out the screws and rubber washers.



4. The holes where the transport screws have been removed should be covered with the plastic transport caps found in the accessories bag.

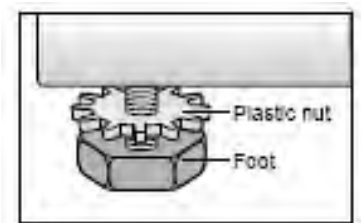


5. The transportation screws that have been removed from the machine must be re-used in any future transporting of the machine.

#### 2.1.2. Foot Adjustment

1. Do not install machine on rugs or similar surfaces.
2. For machine to work silently and without any vibration, it should be installed on a flat, non-slippery firm surface. Any suspended floor must be suitably strengthened.
3. You can adjust the level of machine using its feet.
4. First, loosen the plastic adjustment nut away from the cabinet base.

5. Change the level by adjusting the feet upwards or downwards.
6. After level has been reached, tighten the plastic adjustment nut again by rotating it upwards against the base of the cabinet.
7. Never put cartons, wooden blocks or similar materials under the machine to balance irregularities of the floor.



#### 2.1.3. Electrical Connection

1. Washing machine requires a 50Hz supply of 220-240Volts.
2. A special earthed plug has been attached to the supply cord of washing machine. This plug must be fitted to an earthed socket. The fuse value fitted to this plug should be 13 amps. If you have any doubts about electrical supply, consult a qualified electrician.

**THIS APPLIANCE MUST BE EARTHED.  
Insert the machine's plug to a grounded  
socket which you can easily reach.**

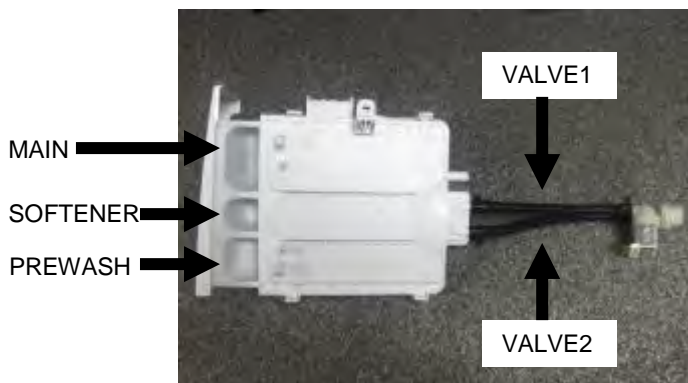
### 2.1.4. Water Supply Connection

1. Washing machine is supplied with a single (cold) water inlet.
2. To prevent leakage from the connection joints, a rubber washer is included in the hose packing. Fit this washer at the end of water inlet hose on the tap side.
3. Connect the hose to the water inlet valve. Tighten the plastic connector by hand. Please call a qualified plumber if you are unsure about this.
4. Water pressure of 0,1-1 MPa from tap will enable machine to work more efficiently.(0,1 MPa pressure means water flow of more than 8 litres in 1 minute from a fully opened tap)
5. After connection is complete, check for leakage by turning on tap completely.
6. Make sure that water inlet hoses can not become folded, damaged, stretched or crushed when the washing machine is in its final position.
7. Mount the water inlet hose to a ¾" threaded water tap.

### 2.1.5. Drain Connection

1. Make sure that water inlet hoses are not folded, twisted, crushed or stretched.
2. The drain hose should be mounted at a minimum height of 60 cm, and a maximum height of 100 cm from the floor.
3. The end of the drain hose can be connected directly to a drainage stand-pipe or alternatively to a specific connection point designed for that purpose on the waste outlet of a sink unit.
4. Do not extend the drain hose or guarantee will be invalidated.

## 2.2. Detergent Box Group



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

### 3. Operating Instructions

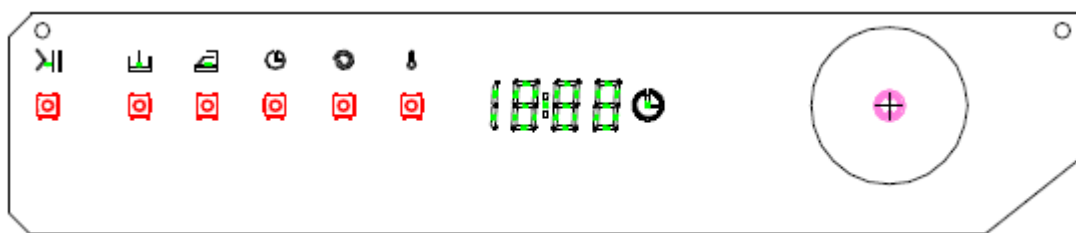
#### 3.1. LCD Screen, Function Buttons & Knobs



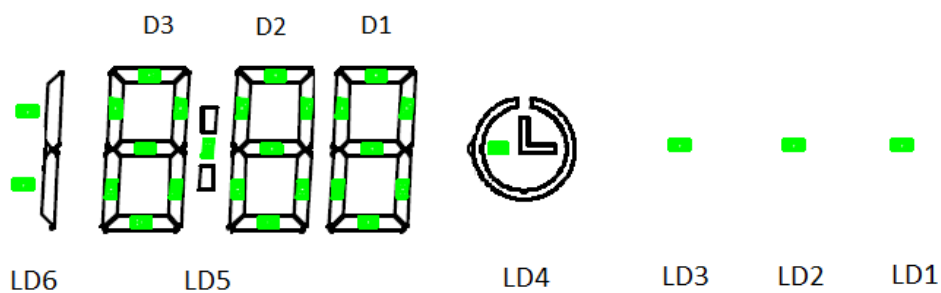
T2 Touch Control Panel



T2 Mechanic Control Panel



T2 Rotated



PR	Program Selector with ON/OFF
SW1	Start / Pause
SW2	Dry Option Selection
SW3	Time Dry Option Selection
SW4	Spin Speed Selection
SW5	Temperature Selection
SW6	Temperature Selection
LD1	Start/Pause Led
LD2	KG
LD3	Time Dry Option Led
LD4	Delay Timer Led
LD5	Double dot led
LD6	Led of "1"
LD7 – LD10	Options Led
LD11 - LD16	Spin Speed Led
LD17 - LD22	Temperature Led
LD23 - LD26	Time Dry Led
LD27 - LD30	Dry Option Led
LD31 - LD34	Eco Time Energy Leds
LD35 - LD38	Eco Time Water Leds
LD39	Delay Timer Led
D3-D3	7-segment display

### 3.2. Program List

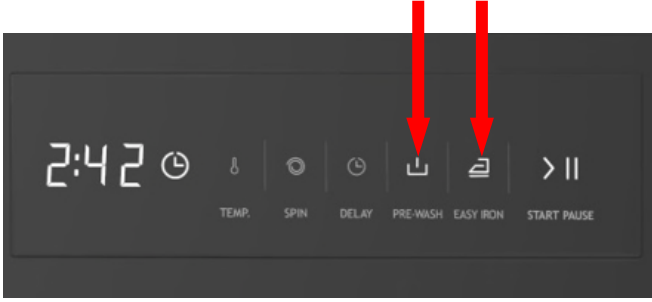
KNOB POSITION	PROGRAM
1	Cotton 60°C
2	Cotton 40°C
3	Eco 20°C
4	Synthetics
5	Wool & Silk
6	Duvet
7	Rinse
8	Allergy Safe
9	Spin
10	Rapid 15/12***
11	Daily Fast 60' 60°C
12	Gentle Dry
13	Cotton Dry
14	Quick Wash & Dry
15	Cotton Wash & Dry
16	OFF

*\*\*Rapid 15 is available for without twinjet model, Rapid 12 is available for with twinjet model.*

### 3.3. Child Lock

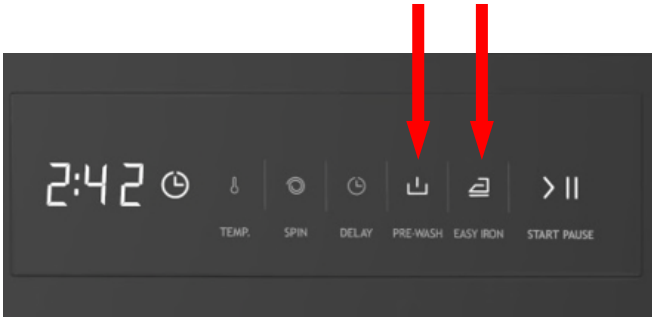
#### Activation

1. Press the SW2 and SW3 buttons simultaneously for 3 sec.



#### Deactivation

1. Press the SW2 and SW3 buttons simultaneously for 3 sec



#### Child lock during selection:

Machine does not respond to any pressing of buttons or changing position of program knob. CL at 7 segment display will make fast blink for 2 sec to indicate child lock is activated.

#### Child lock during the program:

Machine does not respond to any pressing of buttons or changing position of program knob. "CL" is visualized on display for 2 sec to indicate child lock activation with tone D buzzer in models having buzzer option. After 2 sec "CL" indication if fixed off and remaining time is visualized on display.

#### In end condition

When cycle is finished child lock is automatically deactivated. It is not possible to activate child lock during End mode.

#### In Error Mode

Child lock will be automatically deactivated when error is detected

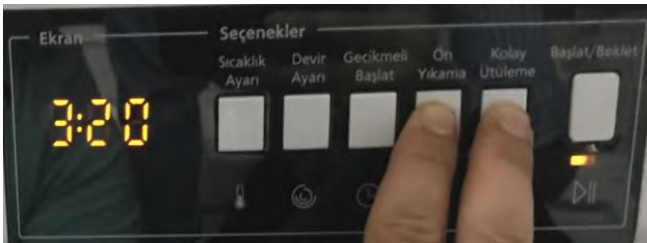
#### Child lock during delay mode:

Child lock can be activated / deactivated during delay mode. If child lock is active during delay mode, it will be kept locked until the end of washing (unless user deactivates by pressing SW2 and SW3 buttons simultaneously for 3 sec.)

#### Activation



#### Deactivation



## 4. Test Mode

### 4.1. Autotest

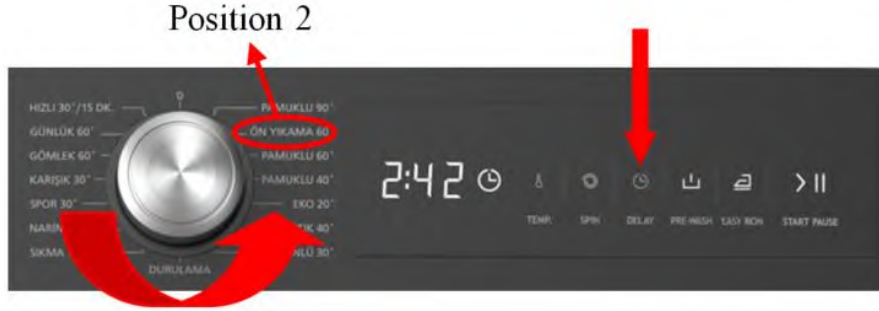
#### 4.1.1. Touch Button Model Version

*\* This test is for quick checking of the product. You can not see the failure codes.*

1. Set program knob at position 3
2. Push SW4 button



3. Keeping SW4 button pushed, turn program knob to position 2

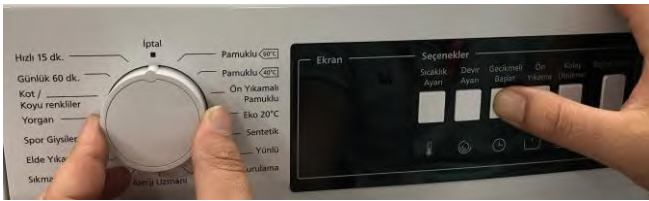


4. After 3 sec, door will be locked and machine enters autotest mode.
5. Release SW4 button.
6. "AU" will be visualized on LCD.

#### 4.1.1. Mechanic Button Model Version

*\* This test is for quick checking of the product. You can not see the failure codes.*

1. Push SW4 button. Keeping SW4 button pushed, turn program knob to position 1.
2. After 3 sec, door will be locked and machine enters autotest mode. Release SW4 button. "AU" will be visualized on LCD.



The test steps are as below;

**Step1:** The pump is activated for 3 seconds (if pump connector is disconnected it should show pump error screen (E03) on display) and there is EPS check, the frequency value should be between the 46.04 Hz and 43.40 Hz. It checks the EPS and if it is OK it continues the autotest; if it is NOK then it should give E10 ERROR & cancel the autotest (goes to the selection mode). Also if any frequency can not be detected, then it means there is a problem with connection or EPS, so it gives E10 which is EPS error and cancels the autotest.

**Step2:** The motor ramps to max spin for 20 seconds. While its speed is rising up to the maximum speed the EV1 (prewash valve) is activated for 5 seconds and then the EV2 (wash valve) is activated for 5 seconds.

**Step3:** The motor reduces speed to stop (depends on the motor stop time) for 5 seconds. While it is slowing down it activates EV1 and EV2 valve, concurrently.

**Step4:** The motor turns to right. Also, dryer valve is activated between sec46-50 for 5 sec.

**Step5:** The motor turns to left for 5 seconds.

**Step6:** Twin Jet will be activated for 3 sec (For twinjet models only)

**Step7:** The EV1 and EV2 are activated concurrently until it reaches pressure sensor's first level frequency (Hz) for 5 seconds.

**Step8:** Software will detect NTC's resistance value and will check if the temperature is between  $5^{\circ}\text{C} < T_{\text{detected}} < 40^{\circ}\text{C}$ . If it is inside the range, heating step will be done. If temperature value is outside the range, then it means NTC is detecting the temperature in a wrong way and heating step will be skipped. Additionally if NTC connector is disconnected it should show NTC failure code (E05) on display.

**Step9:** Software will detect NTC's resistance value and will check if the temperature is between  $0^{\circ}\text{C} < T_{\text{detected}} < 50^{\circ}\text{C}$ . If it is inside the range, autotest continues. If temperature value is outside the range, then it means NTC is detecting the temperature in a wrong way, autotest is canceled and error is released. (E18)

**Step10:** Dryer resistance I and I&II are checked for 5sec in each.

**Step11:** Dryer NTC is checked for 2sec.

**Step12:** Fan is activated for 5 sec.

Autotest ends and "End" screen is visualized.

## AUTOTEST

Time in seconds (to be adjusted)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
Entering autotest	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Changing power to 220 50Hz	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Main Voltage 50 Hz	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Door Lock Powered (Depends on door lock)	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Pump	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
EPS measurement	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Motor Ramp to max spin (max. is 20 sec.)	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
EV1 (flowrate dependent of washer)	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
EV2 (flowrate dependent of washer)	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Dryer valve	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Time until motor is stopped (Depends on the motor stop time)	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Motor Preferred Run (Direction to Right)	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Motor Inverse Run (Direction to Left)	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Twin Jet	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
EV1 + EV2 valves up to first level frequency	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Washer NTC check	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Washer heater resistance	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Dryer resistance I	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Dryer resistance I + II	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Dryer NTC	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Fan	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
End Visualization	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

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Depends on motor stop time.

**Washer Ntc detection :** Software will detect NTC's resistance value and will check if the temperature is between  $5^{\circ}\text{C} < T_{\text{detected}} < 40^{\circ}\text{C}$ . If it is inside the range, heating step will be done.  
 If temperature value is outside the range, then it means NTC is detecting the temperature in a wrong way and heating step will be skipped. **Additionally if NTC connector disconnected it should shows NTC failure code(E05) on display.**

**EPS measurement:** It checks the EPS and if it OK, it continues the autotest; if it is NOK then cancel the Autotest and go to the selection mode. Also if any frequency can not be detected, then it means there is problem with connection or EPS, so it gives E10 which is EPS error and cancels the autotest & goes to the selection mode.

**Dryer Ntc detection :** Software will detect NTC's resistance value and will check if the temperature is between  $0^{\circ}\text{C} < T_{\text{detected}} < 50^{\circ}\text{C}$ . If it is inside the range, heating step will be done.  
 If temperature value is outside the range, then it means NTC is detecting the temperature in a wrong way, **autotest is canceled and error is released. (E18)**

**Without TJ models;**

AUTOTEST																				
Time in seconds (to be adjusted)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Entering autotest	█	█																		
Changing power to 220 50Hz		█																		
Main Voltage 50 Hz			█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Door Lock Powered (Depends on door lock)			█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Pump				█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
EPS measurement				█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Motor Ramp to max spin (max. is 20 sec.)				█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
EV1 (flowrate dependent of washer)				█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
EV2 (flowrate dependent of washer)					█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
<b>Dryer valve</b>																				
Time until motor is stopped (Depends on the																				
Motor Preferred Run (Direction to Right)																				
Motor Inverse Run (Direction to Left)																				
Test stopped until option 1 is pressed																				
<b>(REMOVED)</b>																				
EV1 + EV2 valves up to first level frequency																				
Washer NTC check																				
Washer heater resistance																				
<b>Dryer resistance I</b>																				
<b>Dryer resistance I + II</b>																				
<b>Dryer NTC</b>																				
<b>Fan</b>																				
End Visualization																				

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## 5. Service Mode

### 5.1. Service Autotest

*End users can only see E1-E2-E3-E4. During service autotest, other failures can be seen.*

- To activate service autotest mode in touch models, set program knob at position 3, push SW3 button.



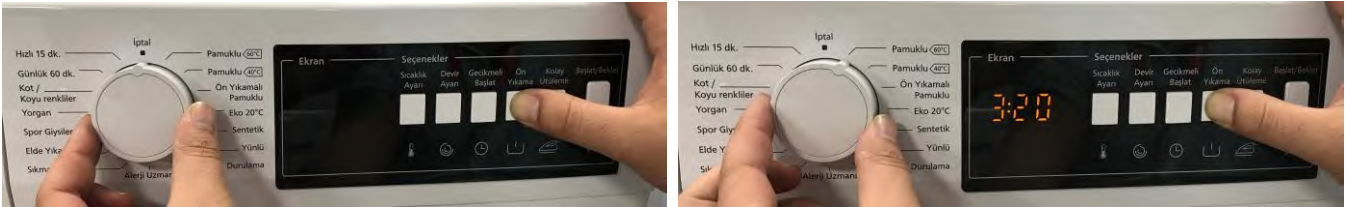
- Keeping SW3 button pushed, turn program knob to position 2.



- After 3 sec, door will be locked, and machine enters service autotest mode. Release SW3 button.

#### 5.1.1. Mechanic Button Model Version

- To activate service autotest, Press SW3 button and simultaneously position program knob to 1.



- After 3 sec, door will be locked, and machine enters service autotest mode. Release SW3 button. In TO "SA" will be visualized on LCD. In rest of the models "SAU" will be visualized on LCD.



	SELECTOR POSITION 1	SELECTOR POSITION 2	SELECTOR POSITION 3	SELECTOR POSITION 4	SELECTOR POSITION 5	SELECTOR POSITION 6
	Result	Result	Result	Result	Result	Result
	WASHER HEATER ON	PUMP ON	DRYER HEATER 1 & FAN ON	DRYER HEATER 2 & FAN ON	RAPID 15' Program	Drying program
Comments:	When entering the service test, door will be locked. If any error is detected E01 is visualized. Then 3D will be checked. If any error is detected E12 is visualized.				TEST IS OVER Door will be unlocked, machine will go to END state.	

The test steps are as below ;

**Step1:** Selector position 1 will be “washer heater on”

Before heating it should take water till first level frequency then start heating.

Heater will be on max. 8 minutes. After 8 minutes if the temp. Doesn't change more than 2°C, it will release ntc failure. ( E05 ). Or if the ntc connection is broken then it should give again E05 ntc failure. At the end of heating, "sau" visualization should make slow blink to indicate that the step is over.

\*During this step if eps detects high water level, overflow algorithm is applied and e04 is released.

Note : if user changes the selector position, machine will do what is defined for the new selected position.

**Step2:** Selector position 2 will be “pump on”

Temperature will be measured, if it is higher than 50°C, it should take 80sec. Cooling water , and then make "drain+ 5sec.) If pump error is detected e03 will be released.

At the end of pump activation, "sau" visualization should make slow blink to indicate that the step is over.

**Step 3:** Selector position 3 will be "dryer heater 1 & fan on "

At the beginning of the step, dryer ntc should detect and record the temperature.

Dryer heater 1 and fan should be activated for 3 min. At the end of 3 min dryer ntc should again detect the temperature, if  $\Delta t < 10^\circ\text{C}$ , it will release e14 failure.

If  $\Delta t \geq 10^\circ\text{C}$ , "sau" visualization should make slow blink to indicate that the step is over.

**Step 4:** Selector position 4 will be "dryer heater 2 & fan on "

At the beginning of the step, dryer ntc should detect and record the temperature.

Dryer heater 2 and fan should be activated for 3 min. At the end of 3 min dryer ntc should again detect the temperature, if  $\Delta t < 10^\circ\text{C}$ , it will release e14 failure.

If  $\Delta t \geq 10^\circ\text{C}$ , "sau" visualization should make slow blink to indicate that the step is over.

**Step 5:** Selector position 5 will be “ rapid 15' ”

So machine will make exactly the same algorithm of rapid 15'.

So, time for selector position 5 is 12 minutes.

During rapid 15 program if eps detects high water level, overflow algorithm is applied and e04 is released.

**Step 6:** Selector position 6 will be “drying 5” step.

Machine will make below algorithm;

So, time for selector position 6 is 5 minutes.

Phase	Function	Heator 1	Heator 2	Fan	Valve	Pump	Service Autotest
<b>FILLING</b>	1 Filling				Time PW		3 sec filling, NM Dryer valve: OFF Fan: OFF Pump: OFF Heator I & II: OFF
<b>MAIN HEATING</b>	2 Drying	A	A	A	A	A	WD1, 5 min.  Heator 1: Continuous ON  Heator 2: Becomes OFF when temp. increases to 130°C, and becomes ON when temp. decreases to 120°C.  Fan: Continuous ON  Valve: Continuous ON  Pump: Continuous ON

At the end of drying 5, “end” is visualized and door is unlocked. During test pressing other buttons makes no change.

During service mode if any failure is detected error code is shown in 7 segement display.

At the end of drying the door will be unlocked and machine will go to end mode.

7-segment display 1, 2, 3 :



## 5.2. Failure Codes

Error Indication	Error Number	Indication For User	Indication For Service
		Yes/No	Yes/No
Door is not locked	E01	Yes	Yes
Door is unlocked during programme	E01	Yes	Yes
Lack of water	E02	Yes	Yes
Pump failure	E03	Yes	Yes
Overflow	E04	Yes	Yes
NTC or Heater Failure	E05	No	Yes
Motor Failure - 1 (Tachometer open-short circuit or motor connector is disconnected)	E06	No	Yes
Configuration Failure	E07	No	Yes
Motor Triac Failure	E08	No	Yes
Voltage Error	E09	Yes	Yes
Electronic Pressure Sensor	E10	No	Yes
Dryer Card Communication Error	E11	No	Yes
3D Communication Error	E12	No	Yes
LCD Communication Error	E13	No	No
Dryer Resistance Failure	E14	No	Yes
Twinjet Failure	E15	No	No
High Temperature Error	E16	No	Yes
Flowmeter Failure	E17	No	Yes
Dryer NTC Failure	E18	No	Yes
BLDC Failure	E19	No	Yes
Pyrojet Failure	E20	No	Yes
Detergent Dosage Pump Failure	E21	No	Yes
Softener Dosage Pump Failure	E22	No	Yes
Communication Failure Between PCB and BLDC Card	E23	No	Yes
Wrong LCD Software	E50	No	Yes
Wrong BLDC Software	E51	No	Yes

*\*Some of the error codes can not be seen based on changing the product types*

## 6. Troubleshooting Guide

All repairs which must be done on the machine should be done by authorized agents only. When a repair is required for machine or you are unable to eliminate the failure with the help of the information given below:

- Unplug the machine.
- Close the water tap.

FAILURE	PROBABLE CAUSE	METHODS OF ELIMINATION
<b>Machine does not operate.</b>	It is unplugged.	Insert the plug into the socket.
	Fuse is defective.	Change fuse.
	Start / Pause button has not been pressed.	Press the start / pause button.
	The program knob is in 0 (off) status.	Bring the program knob on the desired status.
	The door is not shut properly.	Shut the door properly. You should hear the click.
	Child lock is active.	See page 9.
<b>Machine does not receive water.</b>	Water tap is closed.	Open water tap.
	The water inlet hose may be bent.	Check the water inlet hose.
	The water inlet hose is obstructed.	Clean the filters of water inlet hose.
	The water inlet filter is obstructed.	Clean the valve inlet filters.
	The door is not shut properly.	Shut the door properly. You should hear the click.
<b>Machine is not draining water.</b>	The drain hose is obstructed or bent.	Check the drain hose.
	The pump filter is obstructed.	Clean the pump filter.
	The clothes are not placed inside the machine in a well-balanced manner.	Spread the clothes inside the machine in an orderly and well-balanced manner.
<b>Machine is vibrating.</b>	The feet of machine are not adjusted.	Adjust the feet.
	Transportation screws are not removed.	Remove transportation screws.
	There is a small amount of clothes in the device.	It does not prevent operation of the machine.
	Excessive amount of clothes are filled in the machine or the clothes are not placed in a well-balanced manner.	Do not exceed the recommended quantity of clothes and spared clothes in the machine in a well-balanced manner.

FAILURE	PROBABLE CAUSE	METHODS OF ELIMINATION
<b>Excessive foam in the detergent drawer</b>	Too much detergent has been used.	Press the start/pause button. In order to stop the foam, dilute one table-spoon of softener in half liter of water and pour it in the detergent drawer. Press the start/pause button after 5-10 minutes. Arrange the amount of the detergent properly in the next washing process.
	Wrong detergent has been used.	Use only the detergents produced for full automatic machines.
<b>The washing result is bad.</b>	Laundry too dirty for the program you have selected.	Select a suitable program.
	The amount of detergent used is not sufficient.	Use more detergent according to the detergent.
<b>The washing result is not good.</b>	Clothes exceeding the maximum capacity has been filled in machine.	Put the clothes in machine in a manner not to exceed its maximum capacity.
	Water may be hard.	Use the amount of detergent according to the declaration of the detergent producer.
	Distribution of the clothes in machine is not well-balanced.	Spread the clothes inside the machine in an orderly and well-balanced manner.
<b>The water is seen in the drum during washing.</b>	No failure. The water is at the lower part of the drum.	
<b>There are residues of detergent on the clothes.</b>	The pieces of some detergents which do not dissolve in water may stick to clothes as white stains.	By calibrating machine for "Rinsing" program, make an additional rinsing or eliminate the stains After drying with the help of a brush.
<b>There are grey stains on the</b>	These stains may be caused by oil, cream or ointment.	In the next washing operation, use the maximum detergent amount declared by the

clothes.		detergent producer.
<b>The spinning process is not done or starts with delay.</b>	No failure. The unbalanced load control works in that way.	The unbalanced load control system will try to distribute clothes in a homogenous manner. After clothes are distributed, passage to spinning process will be realized. In the next washing process, place clothes into the machine in a well-balanced manner.

## 7. Disassembly and Assembly Instructions

### 7.1 Top Plate

1



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

2



Push the top-plate back and pull it up.

### 7.2 Door

1



T25

Remove two screws that fix the door. (by using T25 tool)

2



Pull the door up.

3











Remove screws that fix the door group.

4



Put the door outside plastic with helping screwdriver.

5		6	
Remove the door inside plastic.		Remove six screws that fix the door hinge.	
7*		8*	
Remove the door handle.		Remove the door handle pin.	
<b>7.3 Spring Wire</b>			
1		2	
First remove the spring wire fixing the tub bellows seal by using the small size screw driver. Pull the tub bellows seal.		Remove the tub bellows seal-body fixing spring.	
<b>7.4 Detergent Drawer</b>			
1		2	
Gently pull the detergent drawer.		While pressing siphon cover keep pulling drawer to remove it.	

## 7.5 Control Panel & Electronic Card

1



Remove the screw which fixes the control panel to the front panel.

2



Remove two screws fixing control panel.

3



Pull the control panel out

4



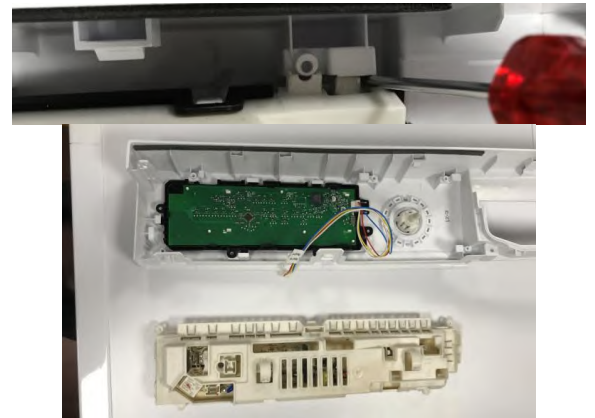
Release the cable group as shown in the picture.

5



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

6



Remove electronic card cover as it is shown in the picture by using small screw driver.

7







Remove the Lightguide cover by pressing the clip that fixes it.

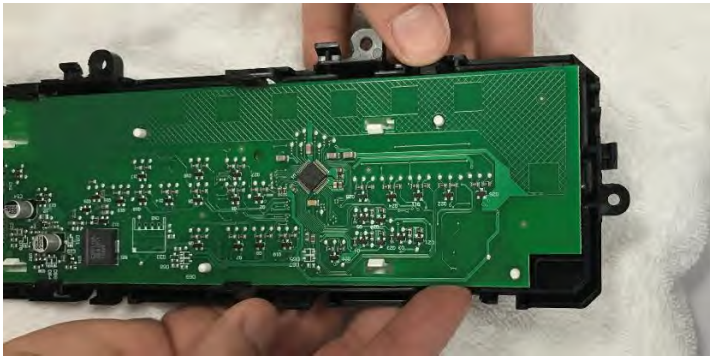
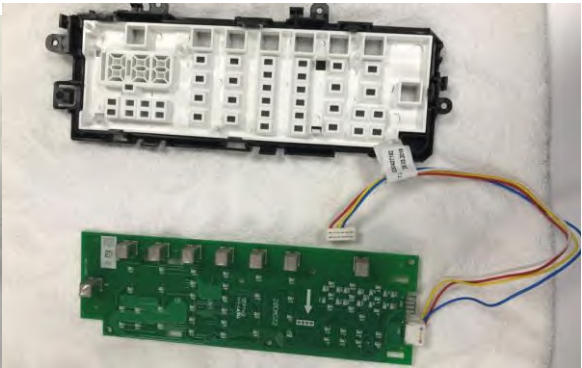
8












Remove the lightguide by pressing the clip that fixes it.

9		10	
Remove PCB box using a small screw driver		Remove the clip fixing the cover.	

11		
Remove the display card as it is shown in the picture by using small screw driver.		

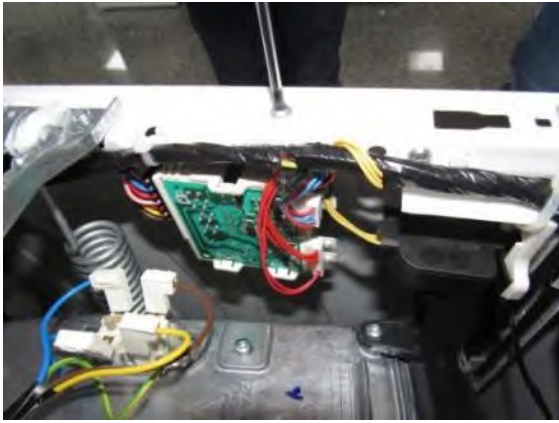
12		
Remove the display card and buttons as it is shown in the picture		

<b>7.6 Front Panel</b>			
1		2	
Remove the screw under the pump cover		Remove the emergency open pull	

3		4	
Remove the pump inside cover by pressing the clip		Remove the screw fixing the front panel at the bottom	
5		6	
Remove the screws fixing the door lock remove the door lock by pressing.		Remove the tub bellows seal.	
7		8	
Remove two screws fixing front panel to body		Remove the screw fixing twinjet elbow	
9		10	
Pull front panel up		Remove front panel	

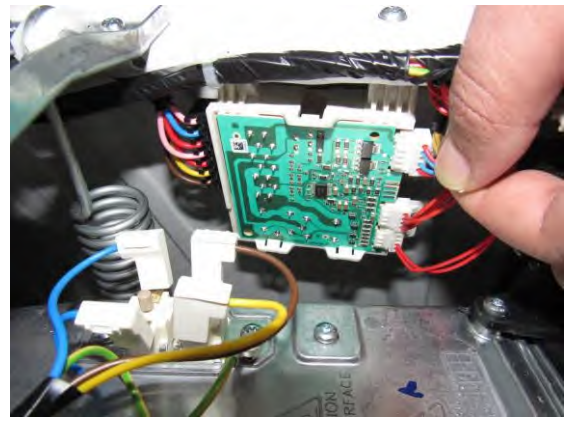
## 7.7 Dryer Card

1



Remove the screws that fixes the dryer card

2



Remove the sockets.

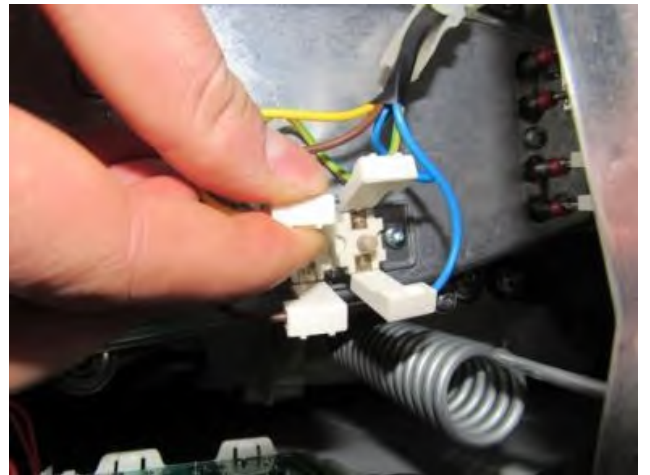
## 7.8 Dryer Unit

1



Remove the screws that fixes the heater unit of the dryer

2



Remove the sockets of the heater unit

2

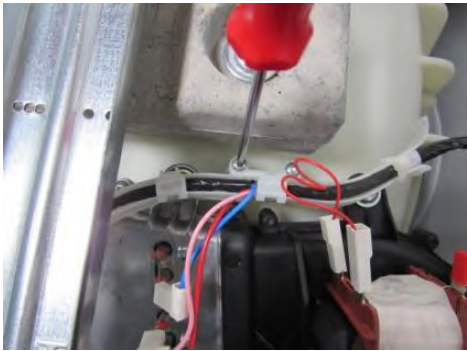
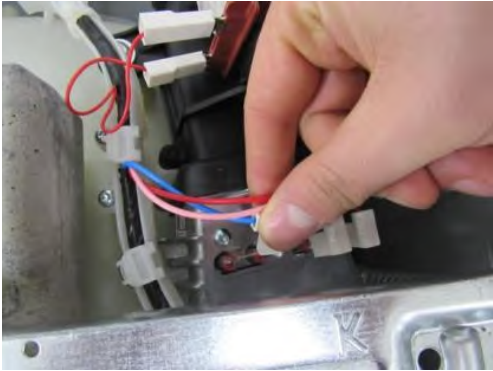






Remove the screws that fix the fan group.



3







Release the cable group by cutting the cable connection.

4		5	
Remove the Cable group of the dryer unit		Remove the sockets of the heater group	
6		7	
Remove the sockets of the fan group.		Remove the screws that fix the fan group.	
8		9	
Cut the connection plastic of the dryer unit.		Cut the cable connection of the dryer NTC and remove the sockets.	





## 7.9 Support Bracket

1		2	
Remove two screws fixing the body group on the upper part		Remove two clips fixing detergent drawer housing to upper support bracket	




## 7.10 Detergent Drawer Housing

1		2	
Remove the tub bellow hose by releasing the holder extensions of bellow hose		Unplug connectors from feed valve	
3		4	
Slightly turn the feed valve counter-clockwise to remove		Remove the detergent drawer housing assembly	

## 7.11 Power Cable Group and EMI Filter

1		2	
Remove the five connectors that is connected to the EMI filter		Remove two screws fixing EMI filter.	
3		4	
Pull the power cable group up		Remove EMI filter	



### 7.12 Electronic Pressure Switch (EPS)



1		2	
Unplug EPS connector		Pull EPS up	
3			
Remove clamp from EPS hose			

### 7.13 Door Lock\*



1	
Unplug door lock connector	

### 7.14 Drain Pump




1		2	
Remove clamp holding drain hose by using a nipper.		Unplug drain pump connector	

3		4	
Remove screws holding drain pump		Remove the pump entrance hose and pyrojet hose by using the nippers	









### 7.15 Front Counterweight\*

1		2	
Remove three screws on the front counterweight. (Wrench size 13 mm)		Gently pull counterweight out	

### 7.16 Heater

1		2	
Unplug heater connectors		Remove nut (8 mm) fixing the heater	
3			
Pull heater out gently holding both sides.			

## 7.17 Twinjet System\*

1		2	
Remove twinjet hoses from tub bellow seal pulling them up		Remove the tub gasket clip by using small screwdriver	
3		4	
Remove the cover that placed under the machine by removing the screws		Remove screw fixing circulation pump	
5		6	
Lay the appliance down and press on ratchet holding circulation pump		Remove circulation pump	
7		8	
Remove cable connector		Remove the hose on the circulation pump	

### 7.18 Tub Bellow Seal\*

1



Remove the tub gasket clip by using small screwdriver

2



Hold the tub bellows seal and gasket-body fixing spring together, and pull them out.

### 7.19 Transport Screw

1



Remove four transport screws

2



Hold the transport screw and pull it out.

### 7.20 Upper Counterweight\*

1



Remove two screws fixing the upper counterweight by using box wrench size 13 mm

2



Hold and carry upper-counterweight out.

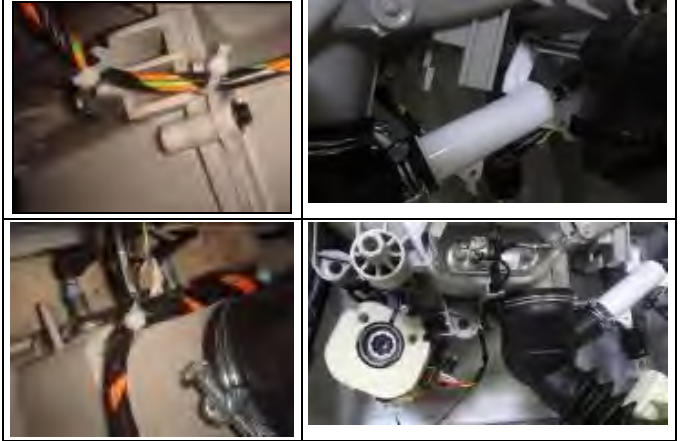
## 7.21 Washing Group

1



Unplug motor connectors

2



Cut all the cable ties which fix cable group

3



Remove the screws fixing hanger bracket

4



Remove the washing group carrying it out through front side

## 7.22 Shock Absorber Pin

1



Remove shock absorber pins squeezing the ratchet by a pliers

## 7.23 Driven Pulley

1



Remove the belt rotating the driven pulley

### 7.24 Driven Pulley

1



Remove the bolt at the center of pulley by tucking a wooden bar avoids rotation

1



Remove pulley

### 7.25 Motor

1



Remove two screws holding motor by using box wrench

2



Pull the motor upwards.

### 7.26 Tub

1



Remove tub inlet bellow hose loosening the clamp squeezing it by using a pliers

2



Remove screw holding EPS reservoir

3





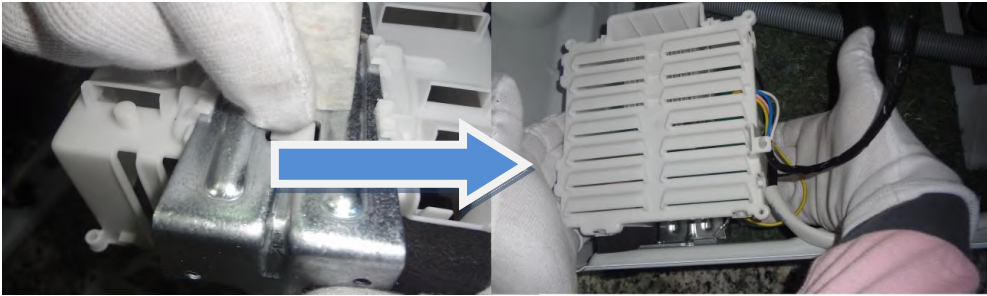


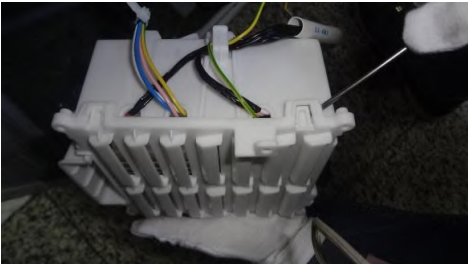



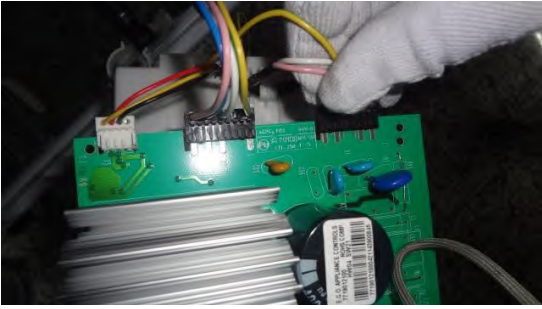



Remove tub outlet bellowed hose loosening screwed-clamp

4



Remove 19 screws around tub using box wrench size 8 mm

5		6	
Remove front tub		Remove drum	
<b>7.27 BLDC Card</b>			
1		2	
Remove the bottom plate by tilting the machine		This is the only way to remove the card without removing the washer group	
3			
Remove the card by pressing the clip that placed behind (it could be seen on the first image) of the card and pushing the card.			
4		5	
Remove the connection		Remove the cable group that belongs to card	
6			
Remove the card box that belongs to the pyrojet unit, by pressing the clips with screw driver.			
Remove the card by pressing the clips around with screw driver.			

8		9	
Remove the connections.		Remove the card completely	
10		11	
Remove the BLDC motor card fixing screws.		Remove the ground connection and make sure this connection is plugged during the assembly.	

## 8. Component Specifications

### 8.1 Drain Pump

Drain pump is both a mechanical and electrical component which is used to drain water inside the washing machine. It has an synchronous motor inside. For better performance maintenance, pump filter should be cleaned regularly.



Drain pump

#### **Technical features**

Nominal voltage	220-240 V	Resistor (coil)	136 $\Omega$ ( $\pm 5\%$ )
Nominal current	0.28 A ( $\pm 10\%$ )	Water flow	17 L/min(to 1 m height)
Nominal power	37 W	Thermal protector	YES
Frequency	50 Hz		

#### **Testing component**

Check the resistance value on the component with multi meter as shown below.  
Resistance value should be between 131- 141  $\Omega$



You can determine the ohm value by measuring from the blue cable at 2nd and blue cable at 11th position in the large socket (refer wiring diagram in section 12) as shown below figure. Resistance value should be between 131- 141  $\Omega$

## 8.2 Circulation Pump\*

The component is used for circulation of water inside the drum in order to increase washing performance.



Circulation Pump

### *Technical features*

Nominal voltage	220 - 240 V
Frequency	50 Hz
Resistor (ci)	169,5 $\Omega$ ( $\pm 5\%$ )

### *Testing component*

Check the resistance value on the component with multi meter as shown below.  
Resistance value should be between 160- 180  $\Omega$



You can determine the ohm value by measuring from the red cable at 5th and red cable at 12th position in the small socket (refer wiring diagram in section 12) as shown below figure. Resistance value should be between 160- 180  $\Omega$

### 8.3. Heater

Heating element (Resistance) is a component which is designed to regulate temperature of water inside the drum. It has three connections: Phase, notral and ground connections.



Resistance

#### **Technical features**

Heater type	Tubular heating element with NTC – sensor	Nominal power	varies
Nominal voltage	230 V	Resistance	varies
		Thermal fuse	2 sided

#### **Testing component**

Check the resistance value on the component with multi meter as shown below. Please contact WMCS for nominal measurement values of resistance used in your appliance. Do not forget to provide serial number information of appliance in your inquiry.



## 8.4 NTC

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



NTC

### Technical features

Tem (°C)	R min (kΩ)	R max (kΩ)
-10	54.9	62.6
-5	43.0	48.6
0	33.9	38.1
5	27.0	30.1
10	21.6	23.9
15	17.4	19.1
20	14.1	15.4
25	11.5	12.5
30	9.4	10.2
35	7.8	8.3
40	6.4	6.9
45	5.4	5.7

Tem (°C)	R min (kΩ)	R max (kΩ)
50	4.5	4.7
55	3.8	3.9
60	3.2	3.3
6	2.7	2.8
70	2.3	2.4
75	1.9	2.0
80	1.7	1.8
85	1.4	1.5
90	1.2	1.3
95	1.1	1.1
100	0.9	1.0

NTC Resistance vs. NTC Temperature

### Testing component

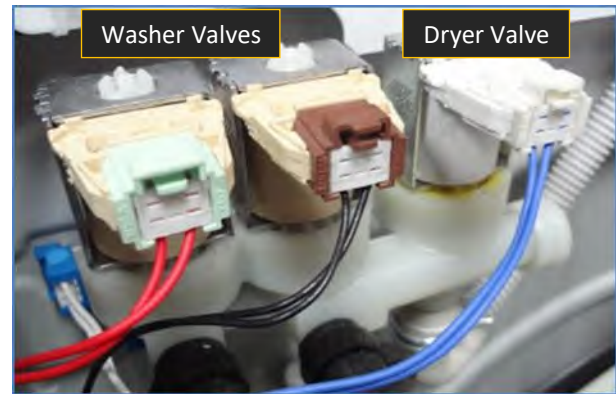
Check the resistance value on the component with multi meter as shown below.



You can determine the ohm value by measuring from the black cable at 3rd and black cable at 11th position in the small socket (refer wiring diagram in section 12) as shown in below figure. NTC resistance value varies depending on temperature.

## 8.5 Valve

Valve is an electrical and mechanical component which is designed to take water from network system into the washing machine. It is operated by PCB card.



Valves

### Technical features

Nominal voltage 220-240 V  
Frequency 50-60 Hz

Flow rate (washer valves) 7 L/min ( $\pm 15\%$ )  
Flow rate (dryer valve) 1.2 L/min ( $\pm 15\%$ )  
Operating water pressure 1-10 bar

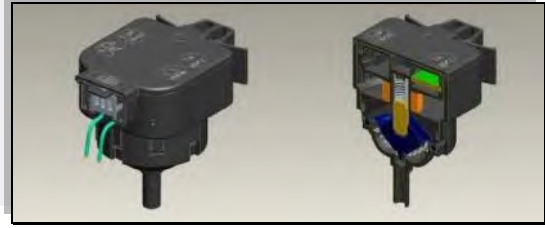
### Testing component

Check the resistance value on the component with multimeter as shown below. Washer valves' water flow rate should be 7 L/min  $\pm 15\%$ . Dryer valve's water flow rate should be 1.2 L/min  $\pm 15\%$ . Washer valves' coil resistance values should be  $3750\Omega \pm 10\%$ . Dryer valve's coil resistance value should be  $5190\Omega \pm 10\%$ .



## 8.6 Electronic Pressure Sensor (EPS)\*

Electromagnetic field occurs due to movement of pressurized membrane. The spring moves vertically by nucleus due to electromagnetic field. The water level is regulated according to the frequency changes of the spring by electronic card.



EPS

### Testing component

Press the door lock with using screw driver.



Select a program and press the start button.  
Bring program knob to position 1 (Cotton 90°C program)



Wait for water intake step to finish. You can recognize it by listening the water sound or slightly opening and observing detergent drawer

As soon as water intake is over turn program knob to position 0 (Off position)



Check water level from door glass. The water level should be just below door glass as seen in the picture below: (There is a %10 tolerance with this level)



## 8.7 Motor

The washing machine has an asynchronous motor. It is controlled by the PCB. It is essential to check the motor for correct diagnosis and quick servicing. In the below picture, socket points on the motor is shown to measure with multi meter.



UNIVERSAL MOTOR

BLDC MOTOR



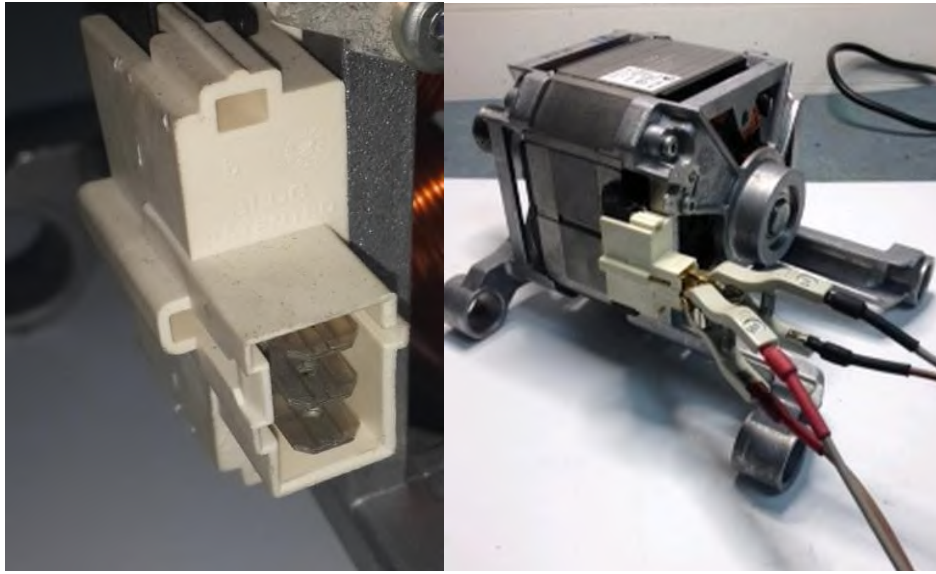
Motor

3 phase brushless DC Motor.

Ferrite Magnet

Stator resistance (phase- Neutral)  $2,38 \pm 7\% \Omega$

### *Motor socket terminals*



Measurement of resistance and inductance are done between the terminals.

## 8.8 Door Lock\*

The type of door lock is the solenoid fixed hook door lock. Since the locking could be done with the fixed hook, door handle is not used on model. The door is opened at the end of the program and also as long as the condition of the water level and temperature in the drum is safe, door could be open.

In order to intervene to the door lock in emergency cases, the door could be opened by pulling the emergency handle which placed under the pump cover. But the user needs to be make sure that the water level and temperature condition in the drum is safe.



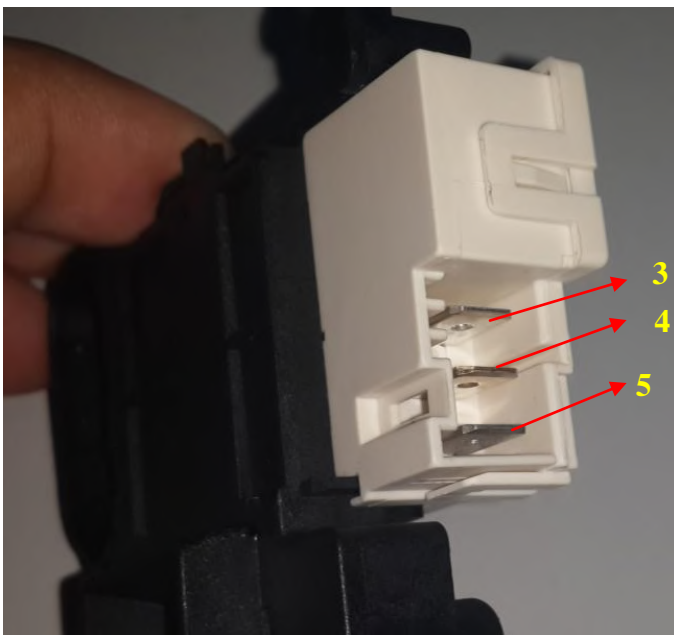
Door lock

### Technical features

Nominal voltage (Rated)	170 - 250 V
Current (Rated)	16 (6) A

### Testing component

Check the resistance value on the component with multi-meter as shown in below figures. Resistance value on the (PTC overload + solenoid) should be  $240\Omega \pm 20\%$  at 25 °C. That resistance value can be measured from terminal 3-4 (refer to section12 Wiring Connection Diagram).



This socket shows the connection between terminal 3-4 (See wiring diagram below). The resistance read from terminal 3-4 is the resistance of PTC overload plus resistance of solenoid.

## 8.9 Fan Group

Air pump component for drying cycle. Pumps dry cold air from condenser to dryer heater.



Fan group

### *Technical features*

Nominal voltage	230 V	Resistance @ 20°C	82.7Ω ±3Ω
Frequency	50 Hz	Motor speed	1300 RPM
Rated Power	34 W	Air Flow Rate	70 m <sup>3</sup> /h

### *Testing component*

Check the resistance value on the component with multi-meter as shown in below figures. Resistance value should be 82.7Ω ±3Ω at 20 °C.



## 8.10 Dryer Heater

Air heater unit consist of two separate resistance with nickel diffusion technology.



Dryer

Heater

### Technical features

Nominal voltage 230 V  
Rated power (Heater I) 750 W  
Rated power (Heater II) 750 W

Resistance @ 20°C 65.5 – 72.6 Ω

### Testing component

Check the resistance value on the component with multi-meter as shown in below figures. Resistance value should be in 65.5 – 72.6 Ω range.



## 8.11 Dryer NTC

The component which sends signals to PCB about the flowing air temperature just after dryer heater. The resistance value of the NTC decreases as the temperature increases.



Dryer NTC

### Technical features

Temp. (°C)	R min (kΩ)	R max (kΩ)
25	19.40	20.60
30	15.56	16.67
40	10.19	11.10
50	6.82	7.54
60	4.65	5.23
70	3.25	3.70
80	2.32	2.68
90	1.69	1.97
100	1.24	1.47

Temp. (°C)	R min (kΩ)	R max (kΩ)
110	0.93	1.11
120	0.70	0.85
130	0.54	0.66
140	0.42	0.52
150	0.33	0.41
160	0.26	0.32
170	0.21	0.25
180	0.17	0.20

NTC Resistance vs. NTC Temperature

### Testing component

Check the resistance value on the component with multi-meter as shown in below figures.



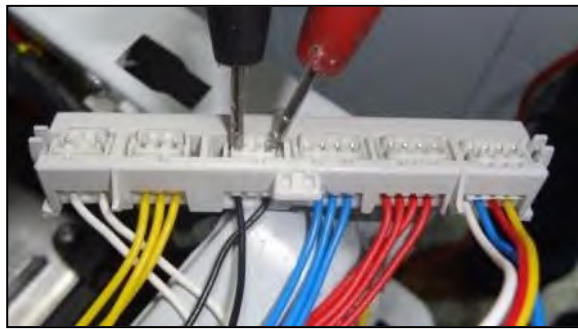
## 8.12 Component Control on PCB

### Scokets on the Dryer Board



### 8.12.1 Washer NTC

NTC resistance values are checked (black cables) as shown.  
Refer to the relevant table for the NTC resistance values..



## 8.12.2 Circulation Pump

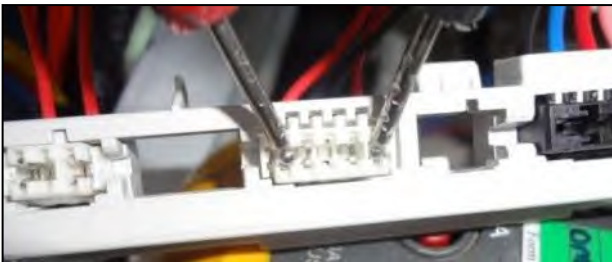
Resistance values are checked (red cables) as shown.



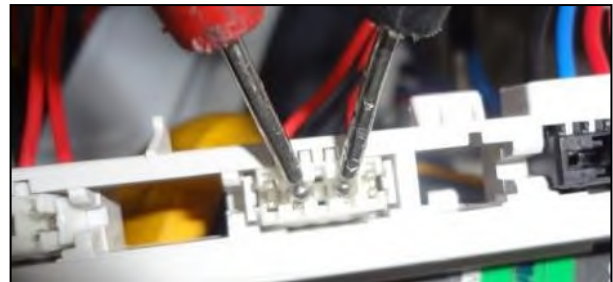
## 9.12.3 Washer Valves

Valve resistance value is checked with a multimeter as shown.  
Washer valves resistance values :  $3750 \Omega \pm 10\%$

Pre-Wash Valve:  
Check the red cables



Main Wash Valve:  
Check the black cables



### 8.12.4 Drain Pump

Check the blue-blue cables  
 Drain Pump resistance value: 125 - 140 Ω



### 8.12.5 Door Lock

Resistance value is checked with a multimeter as shown.

Check the white and blue cables

Resistance values  $240\Omega \pm 20\%$  (25 °C)



### 8.12.6 Dryer NTC

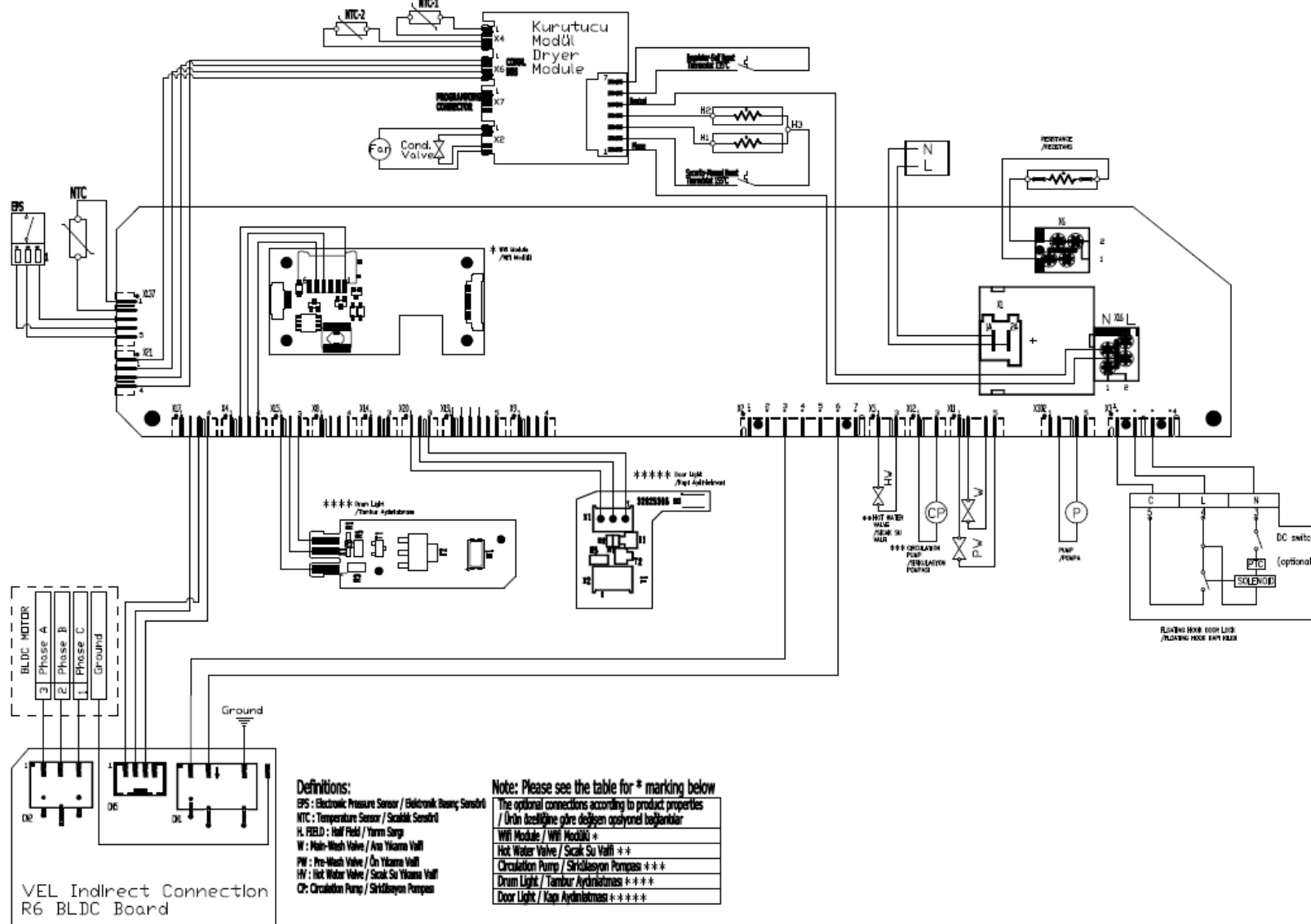
Component Control :  
 Check the socket at the bottom of the dryer board as shown.



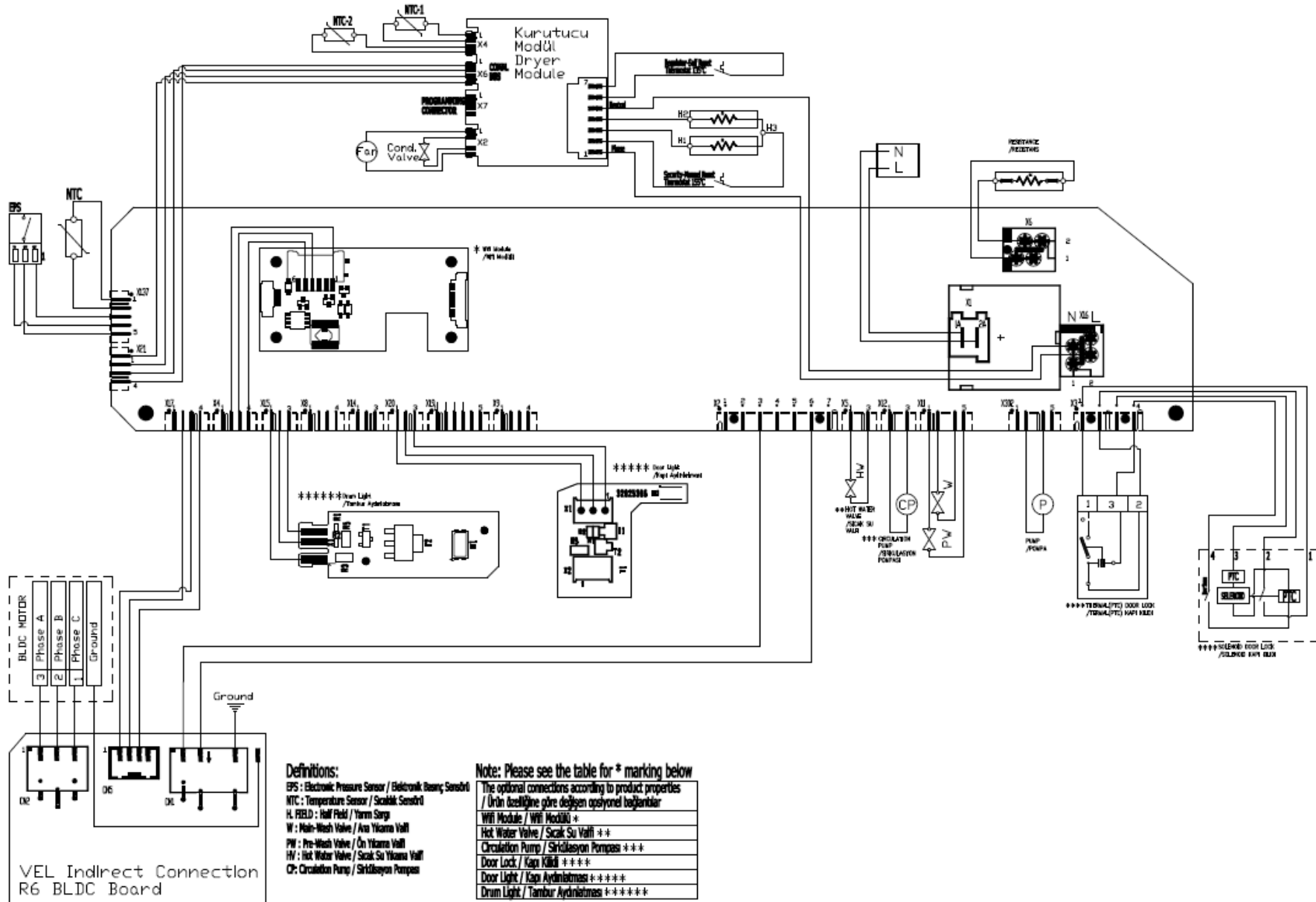
T°C	R(KΩ) MIN	R(KΩ) CEN	R(KΩ) MAX
25	19.40	20.00	20.60
30	15.56	16.11	16.67
40	10.19	10.64	11.10
50	6.819	7.176	7.544
60	4.653	4.933	5.225
70	3.246	3.466	3.697
80	2.322	2.495	2.679
90	1.688	1.825	1.972
100	1.244	1.353	1.471
110	0.9296	1.017	1.112
120	0.7042	0.7747	0.8516
130	0.5404	0.5976	0.6603
140	0.4198	0.4665	0.5180
150	0.3296	0.3681	0.4107
160	0.2614	0.2932	0.3286
170	0.2092	0.2357	0.2653
180	0.1690	0.1912	0.2161

## 9. Wiring Diagram\*

### VWM-10603 JD'SIZ BLDC WD Floating Hook Door

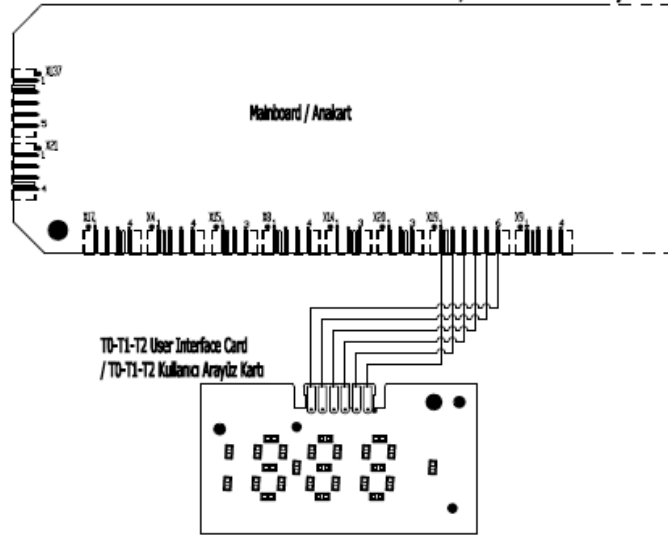


# VWM-10636 JD'SIZ- BLDC WD PTC Solenoid Door



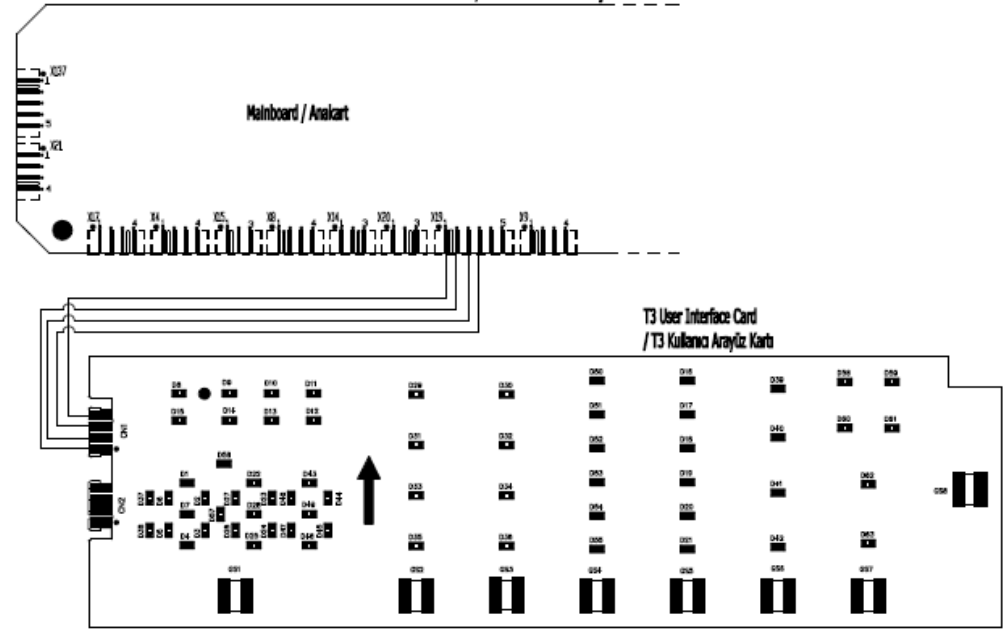
# T Series User Interface User Connection Diagram

T0-T1-T2 USER INTERFACE CONNECTION / T0-T1-T2 ARAYÜZ BAĞLANTI ŞEMASI

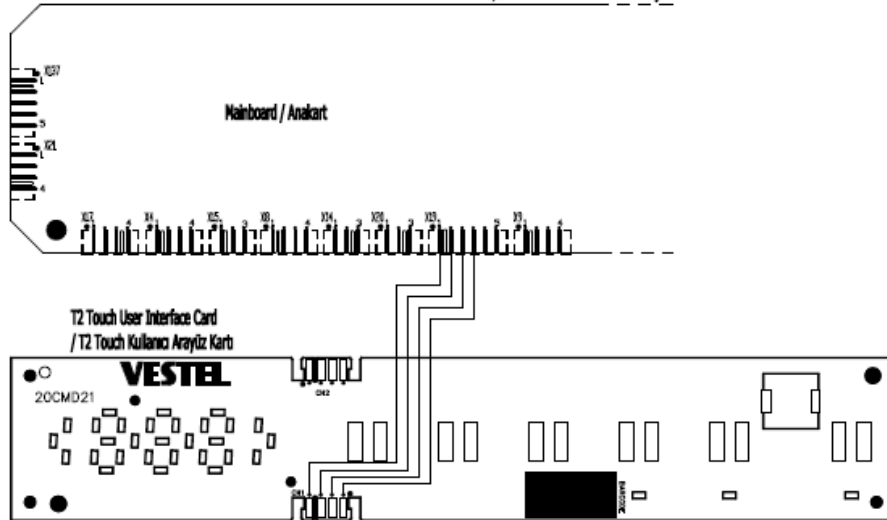


NOTE / NOT:  
The Led numbers change depends on T0, T1 or T2 user interface card.  
/ Led sayıları T0, T1 veya T2 arayüz kartına bağlı olarak değişmektedir.

T3 USER INTERFACE CONNECTION DIAGRAM / T3 ARAYÜZ BAĞLANTI ŞEMASI

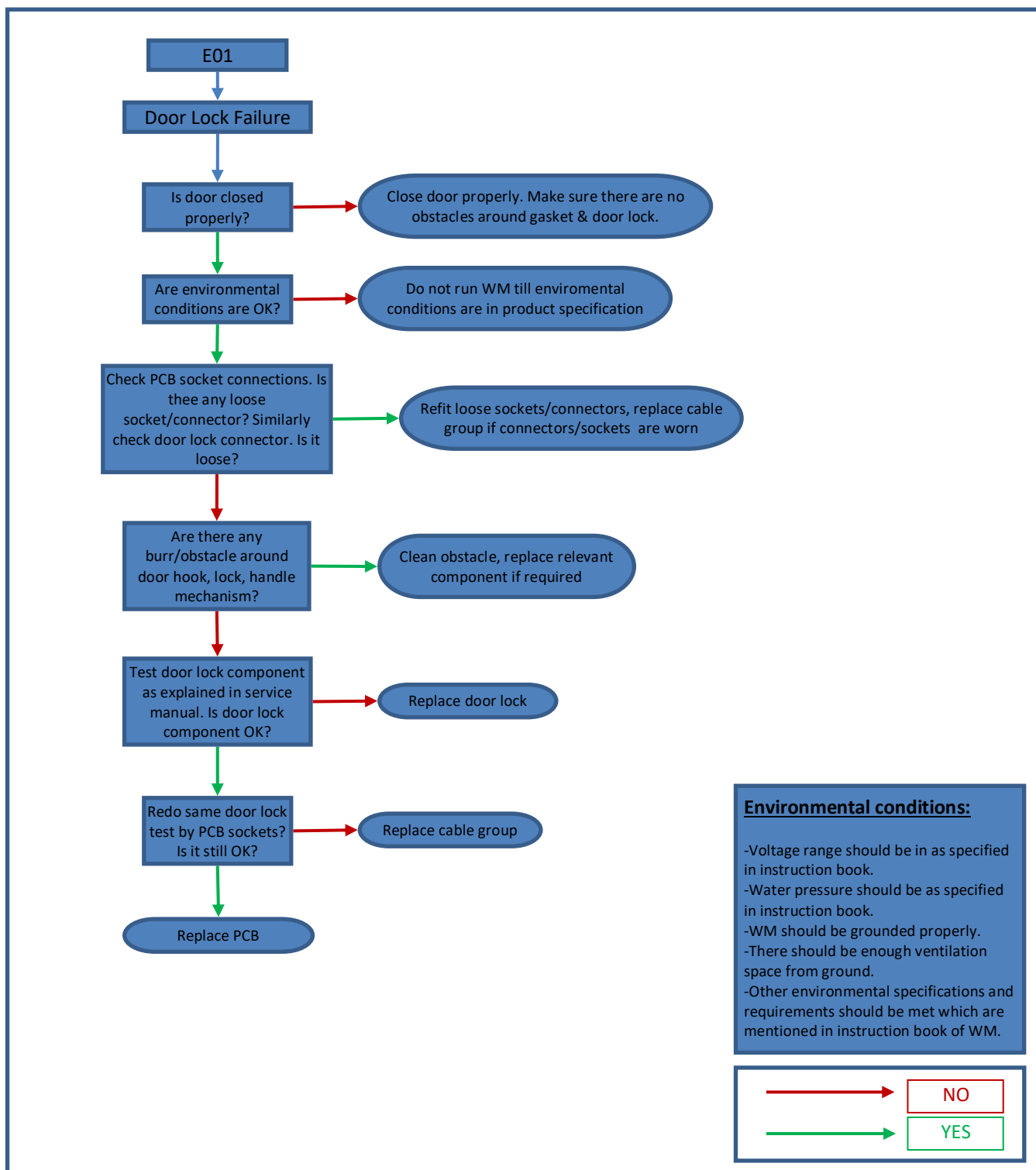


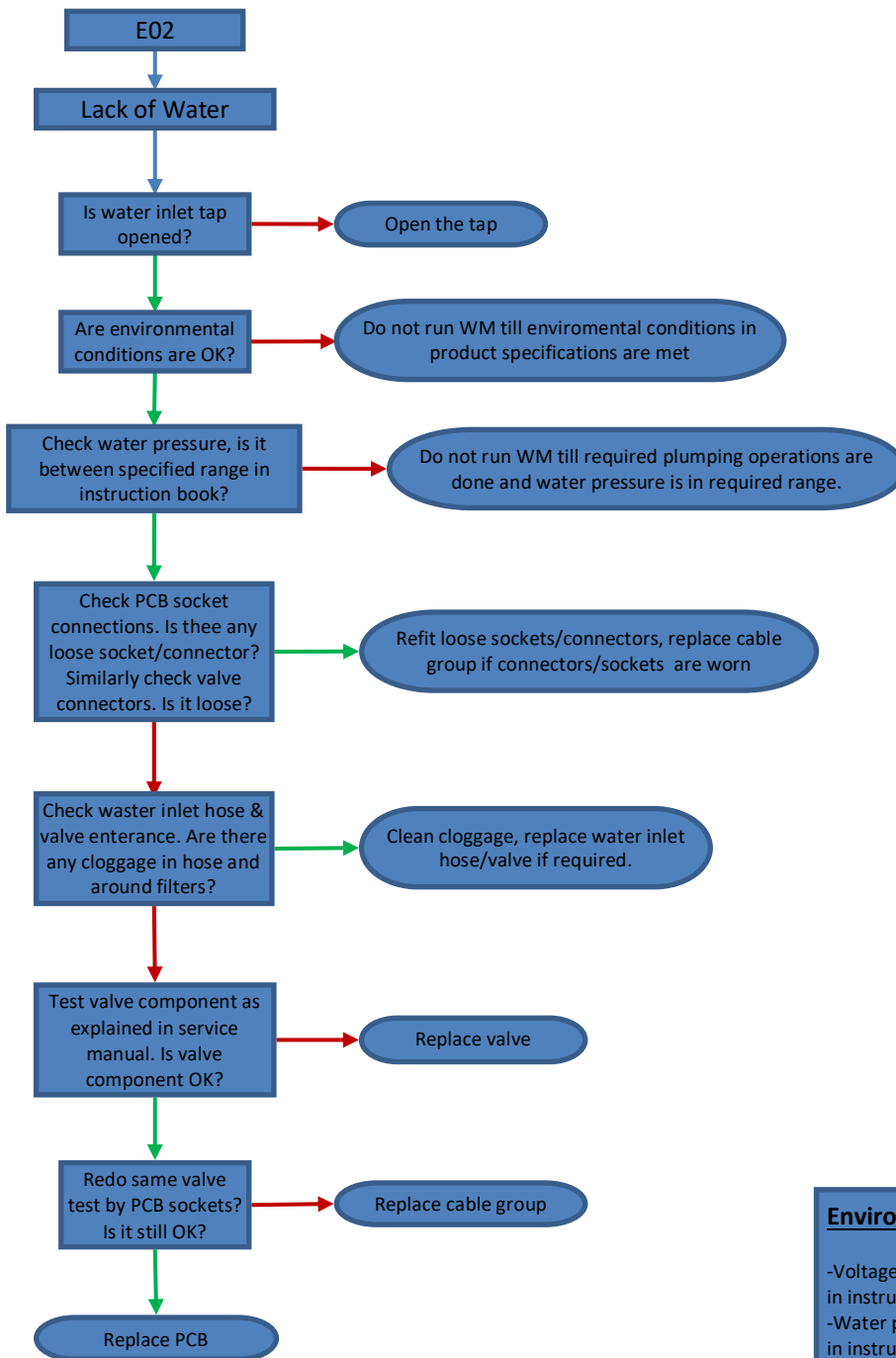
T2 TOUCH USER INTERFACE CONNECTION DIAGRAM / T2 TOUCH ARAYÜZ BAĞLANTI ŞEMASI



## 10. Troubleshooting

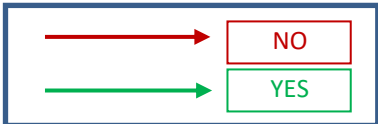
Please apply basic troubleshooting steps described in user manual. If you can not find a solution you should run service autotest and complete all steps. In case of an error encounter please follow the instructions through flowchart related with the error.

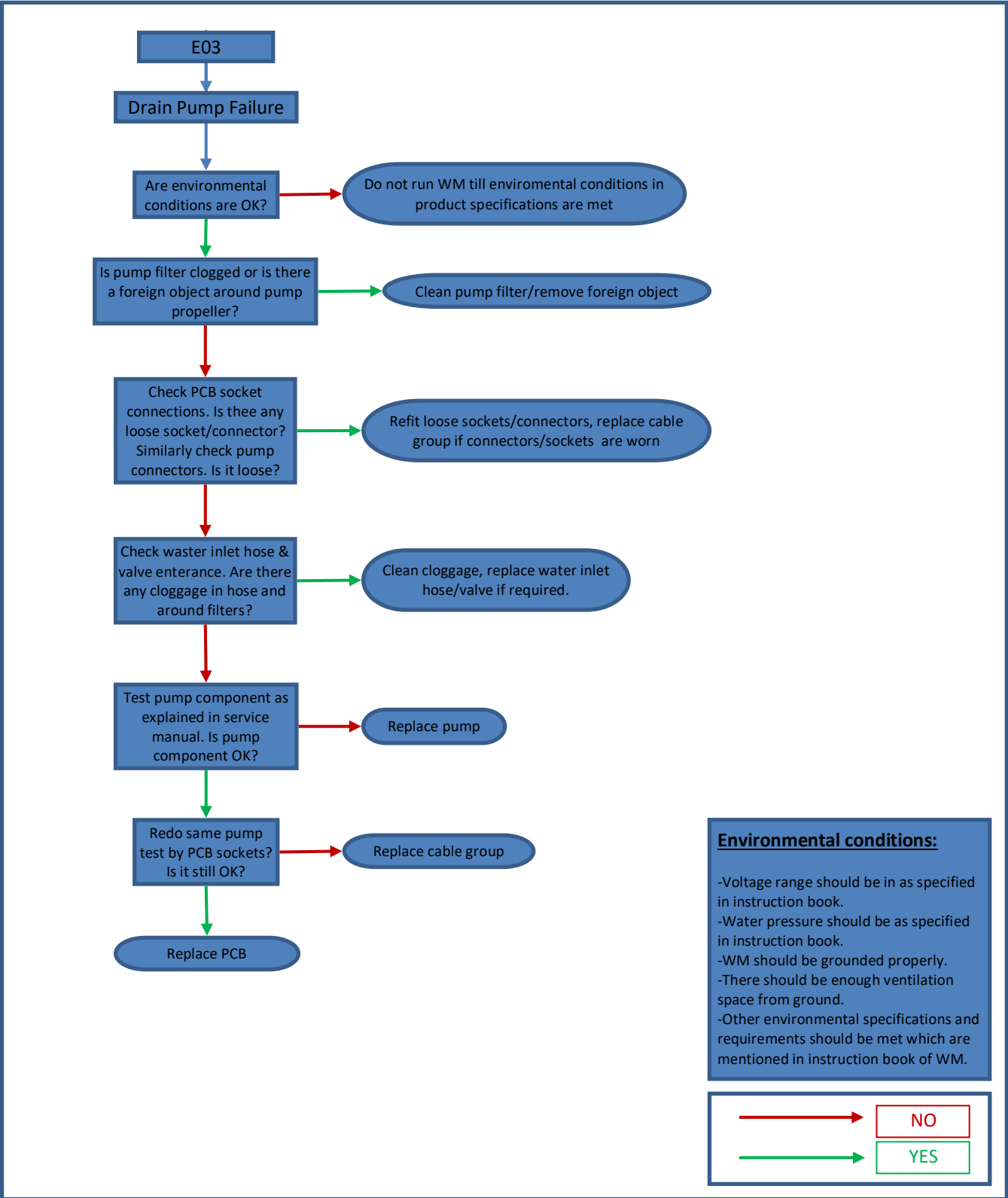




**Environmental conditions:**

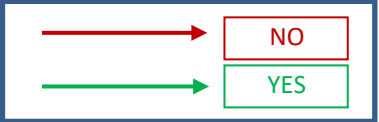
- Voltage range should be in as specified in instruction book.
- Water pressure should be as specified in instruction book.
- WM should be grounded properly.
- There should be enough ventilation space from ground.
- Other environmental specifications and requirements should be met which are mentioned in instruction book of WM.

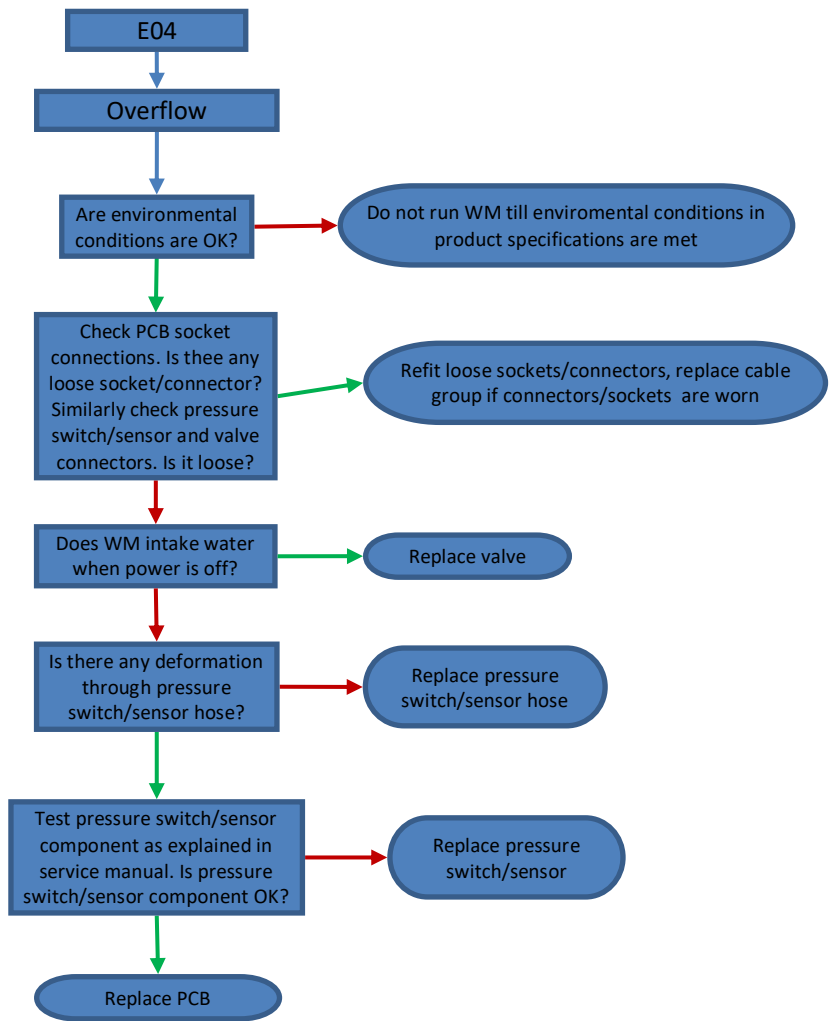




**Environmental conditions:**

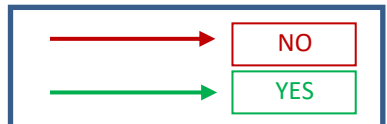
- Voltage range should be in as specified in instruction book.
- Water pressure should be as specified in instruction book.
- WM should be grounded properly.
- There should be enough ventilation space from ground.
- Other environmental specifications and requirements should be met which are mentioned in instruction book of WM.

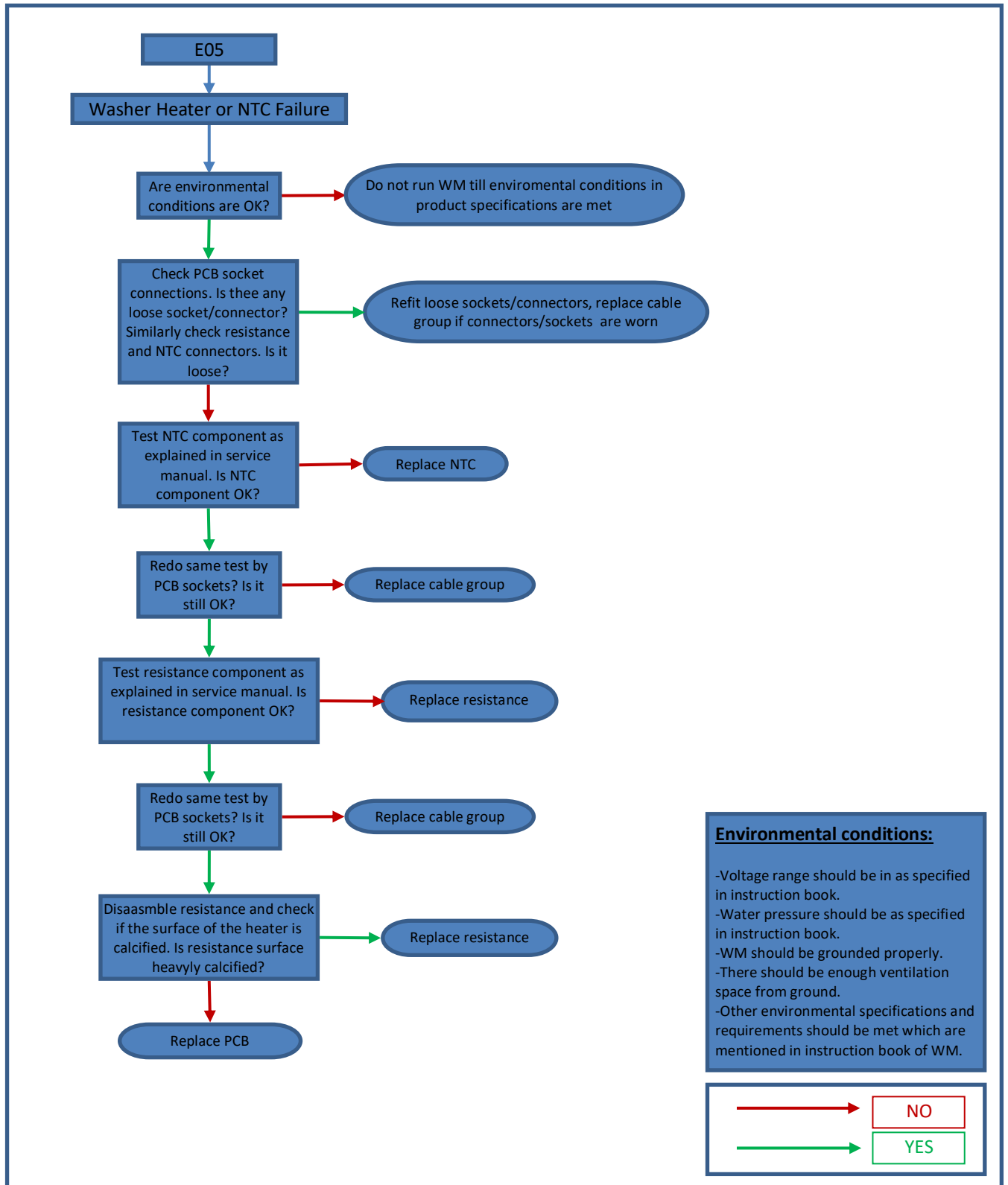




**Environmental conditions:**

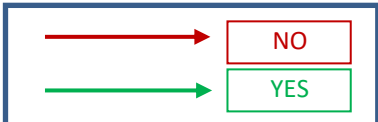
- Voltage range should be in as specified in instruction book.
- Water pressure should be as specified in instruction book.
- WM should be grounded properly.
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- Other environmental specifications and requirements should be met which are mentioned in instruction book of WM.

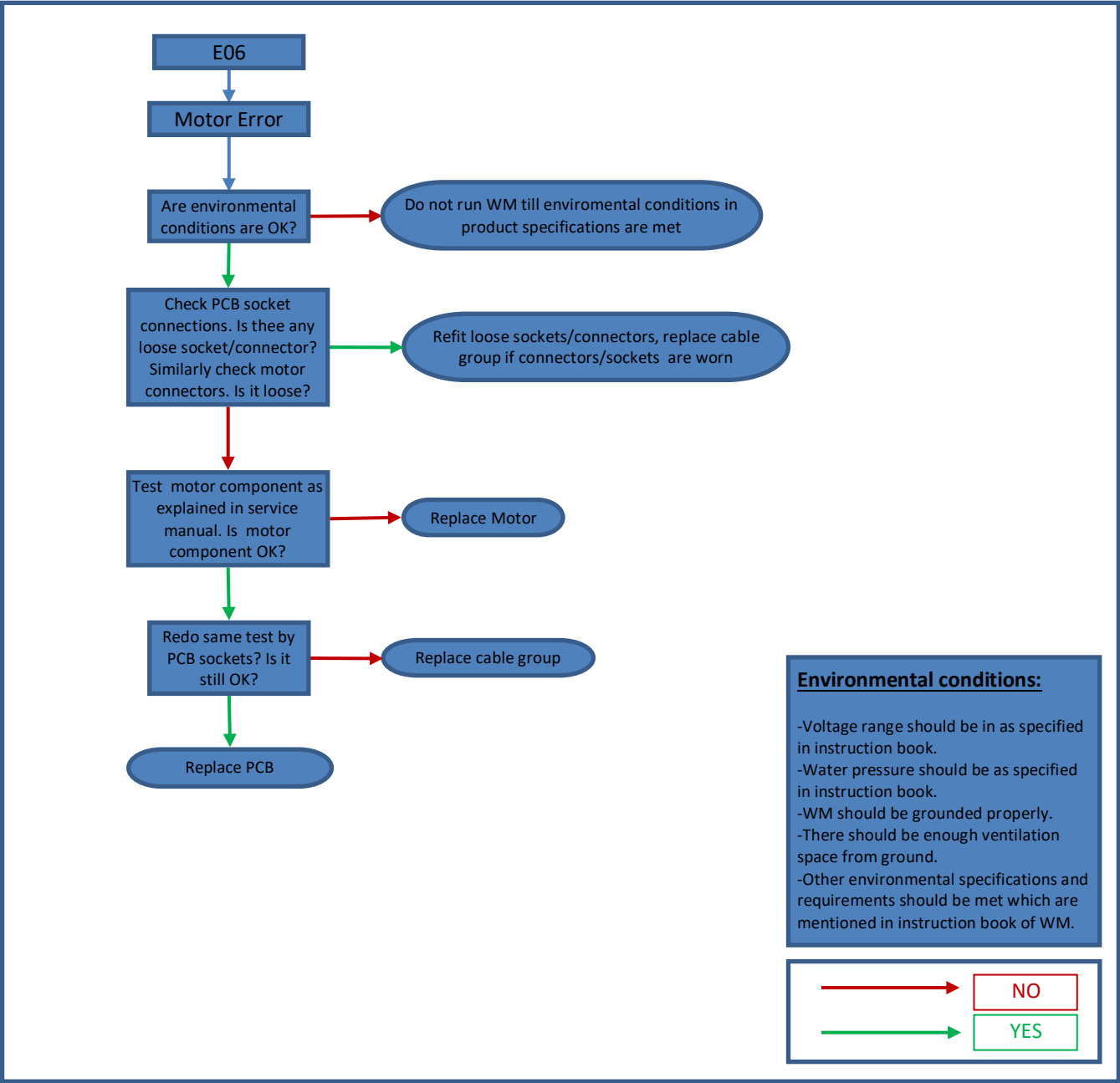




**Environmental conditions:**

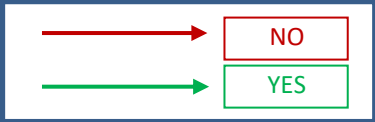
- Voltage range should be in as specified in instruction book.
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- WM should be grounded properly.
- There should be enough ventilation space from ground.
- Other environmental specifications and requirements should be met which are mentioned in instruction book of WM.

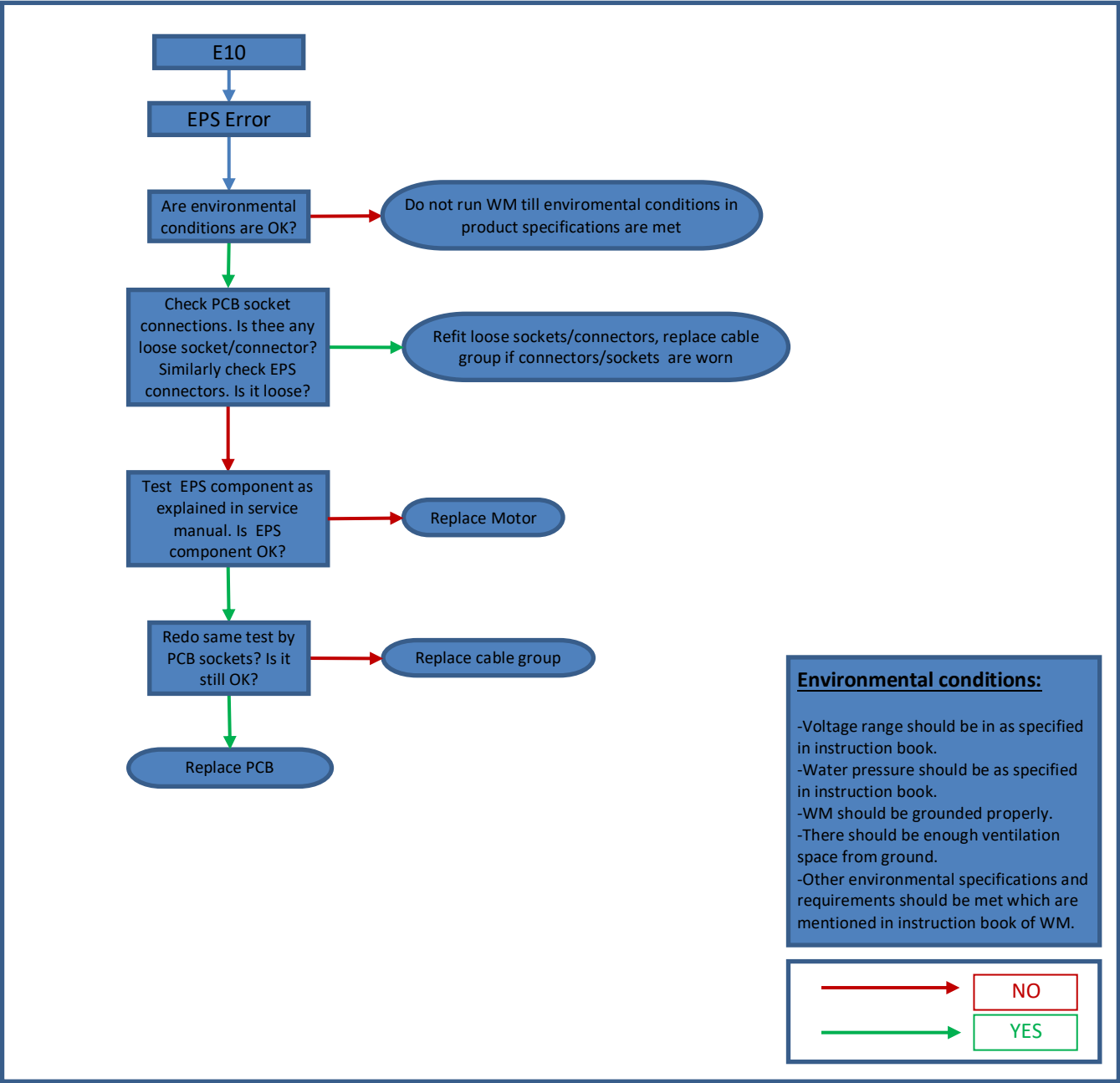




**Environmental conditions:**

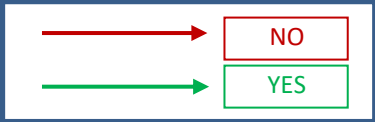
- Voltage range should be in as specified in instruction book.
- Water pressure should be as specified in instruction book.
- WM should be grounded properly.
- There should be enough ventilation space from ground.
- Other environmental specifications and requirements should be met which are mentioned in instruction book of WM.

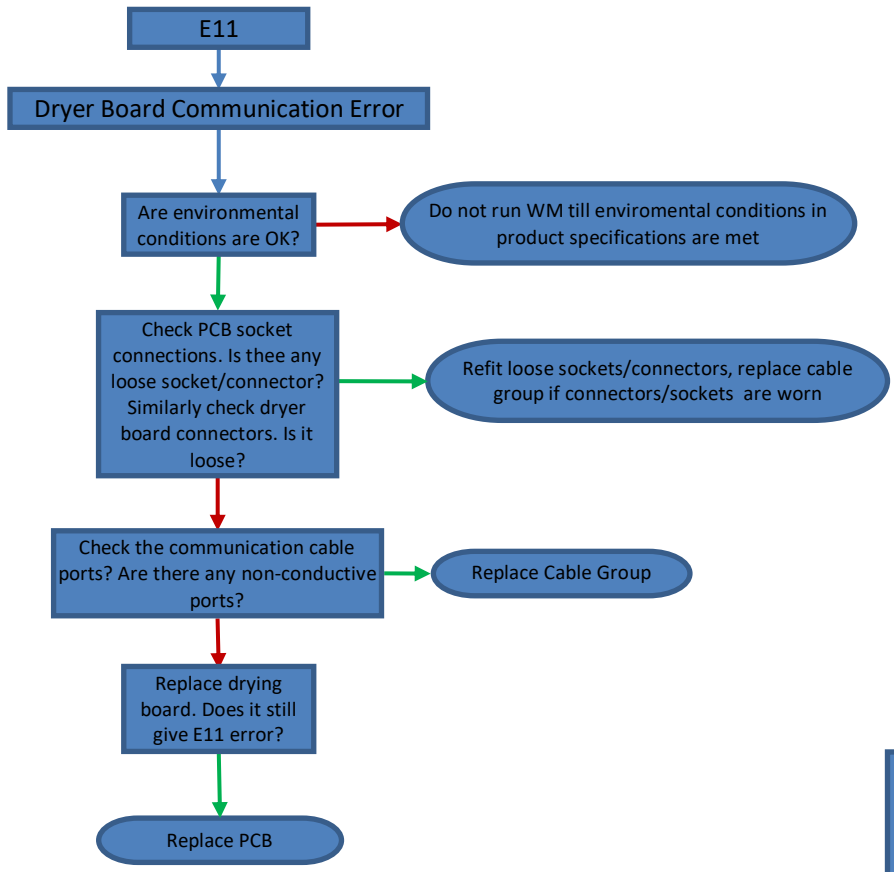




**Environmental conditions:**

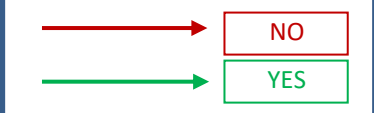
- Voltage range should be in as specified in instruction book.
- Water pressure should be as specified in instruction book.
- WM should be grounded properly.
- There should be enough ventilation space from ground.
- Other environmental specifications and requirements should be met which are mentioned in instruction book of WM.

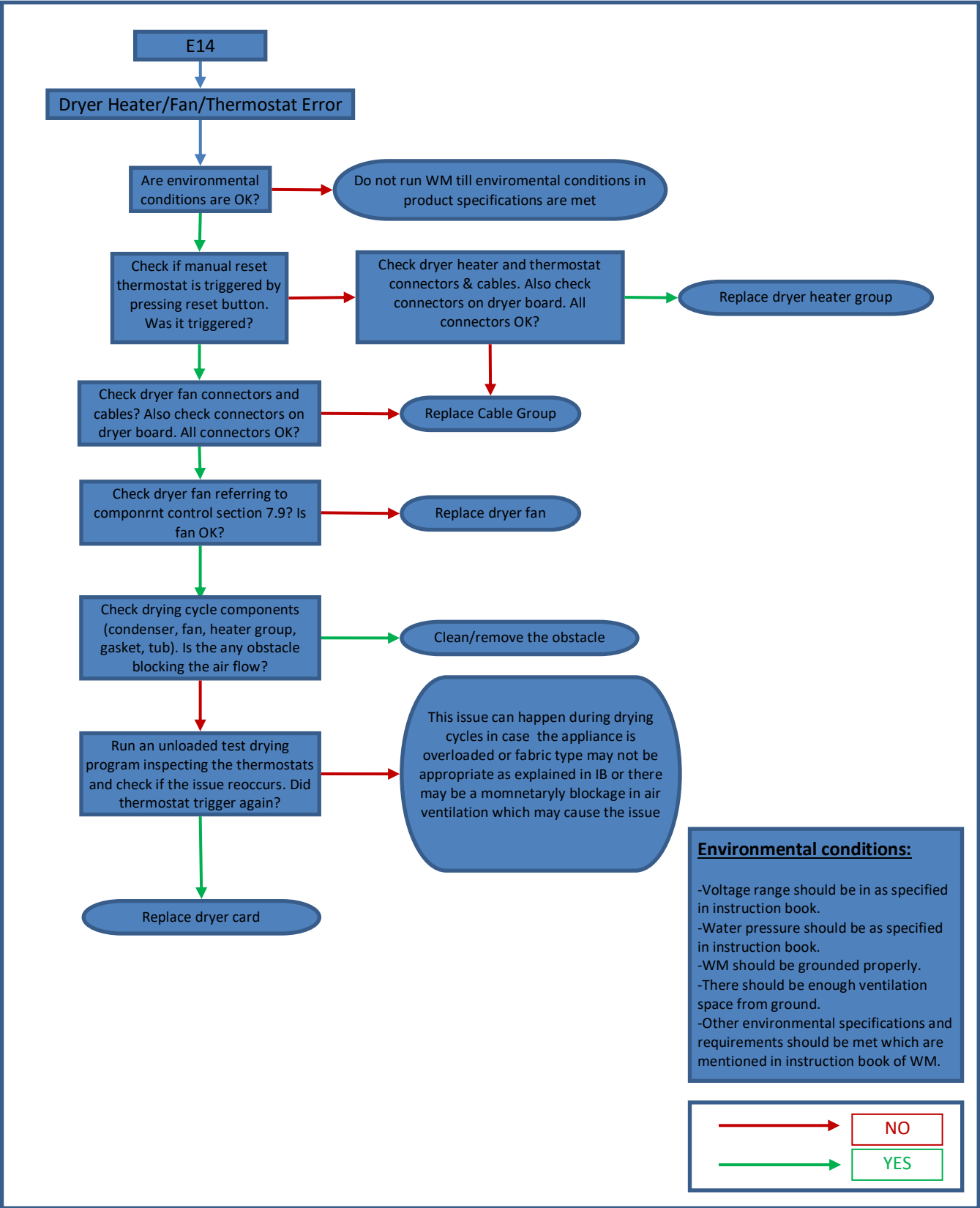




**Environmental conditions:**

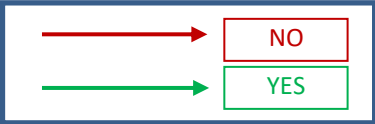
- Voltage range should be in as specified in instruction book.
- Water pressure should be as specified in instruction book.
- WM should be grounded properly.
- There should be enough ventilation space from ground.
- Other environmental specifications and requirements should be met which are mentioned in instruction book of WM.

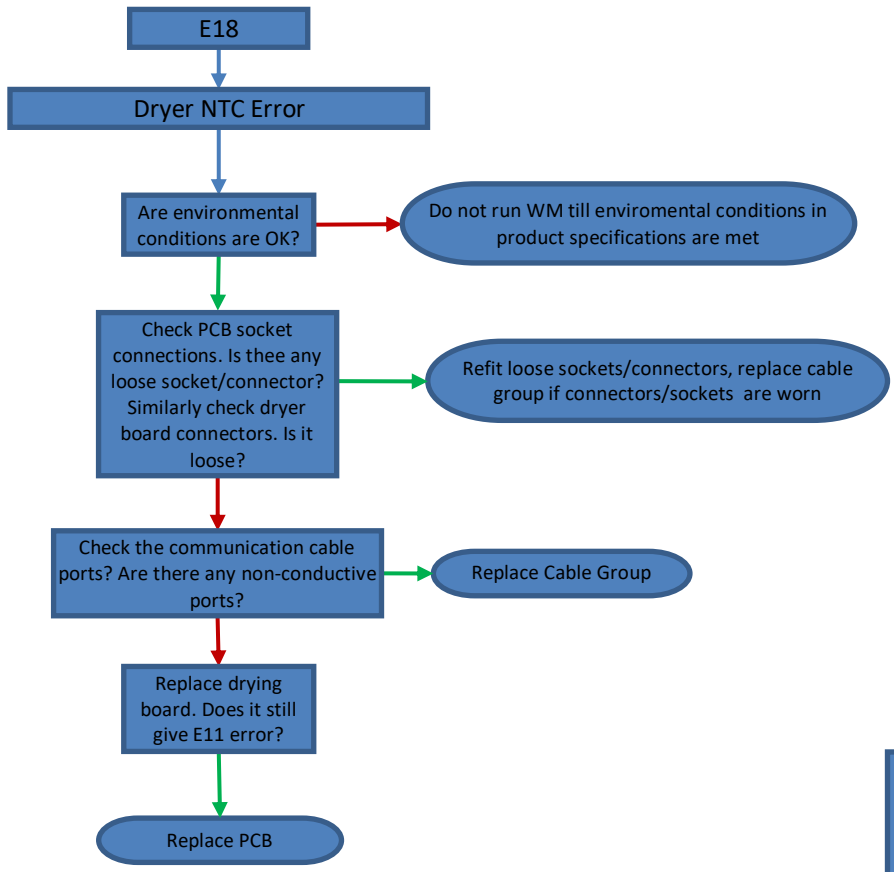




**Environmental conditions:**

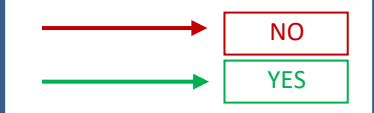
- Voltage range should be in as specified in instruction book.
- Water pressure should be as specified in instruction book.
- WM should be grounded properly.
- There should be enough ventilation space from ground.
- Other environmental specifications and requirements should be met which are mentioned in instruction book of WM.





**Environmental conditions:**

- Voltage range should be in as specified in instruction book.
- Water pressure should be as specified in instruction book.
- WM should be grounded properly.
- There should be enough ventilation space from ground.
- Other environmental specifications and requirements should be met which are mentioned in instruction book of WM.



## TUB BELLOWS SEAL REPAIR INSTRUCTION

### 1. Disconnection



1.1 Remove the plug



1.2 Turn off the tap and disconnect the hose from the valve



1.3 Disconnect the drain hose

### 2. Necessary Tools

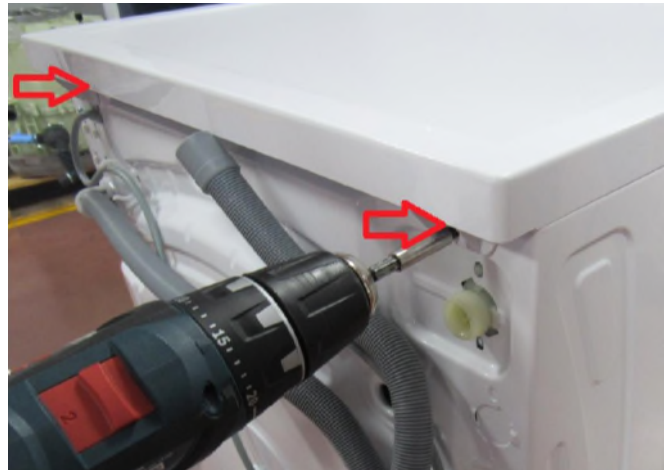


A. Pliers

B. Flat head thin screwdriver

C. Cordless screwdriver or classic screwdriver with torx bits (T20)

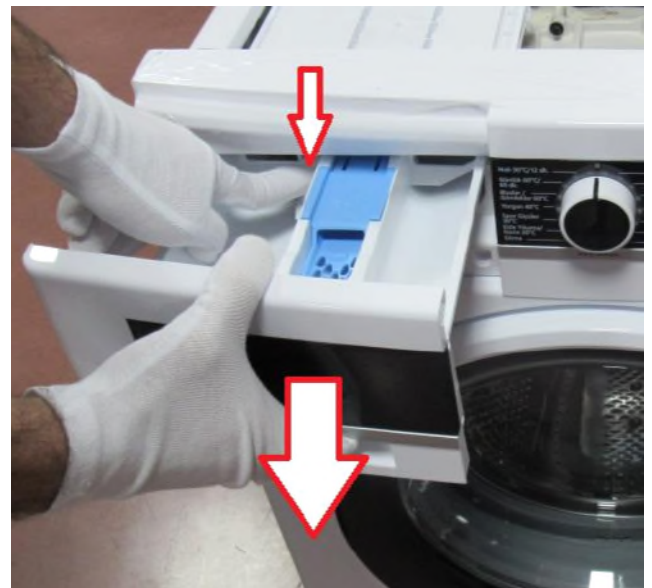
### 3. Disassembly Instructions



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



3.2 Push the top-plate back and pull it up.

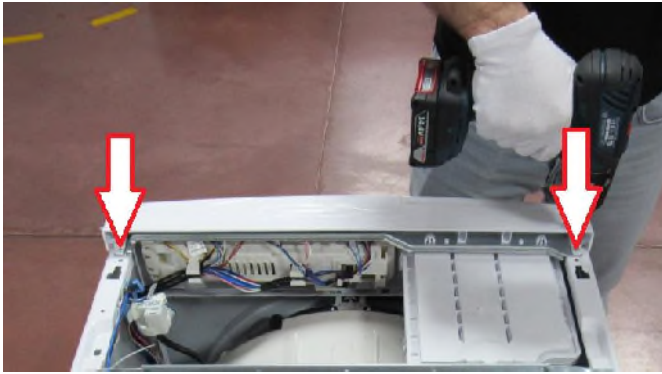


3.3 While pressing siphon cover keep pulling drawer to remove it.

## TUB BELLOW SEAL REPAIR INSTRUCTION



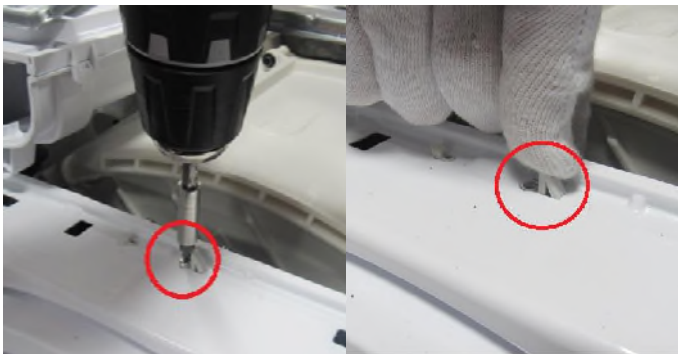
3.4 Remove the screw which fixes the control panel to the front panel.



3.5 Remove two screws fixing control panel.



3.6 Remove the screw on support bracket and two screws fixing front panel to body



3.7 Remove the screw fixing twinjet elbow.



3.8 Remove the screws fixing the door lock.

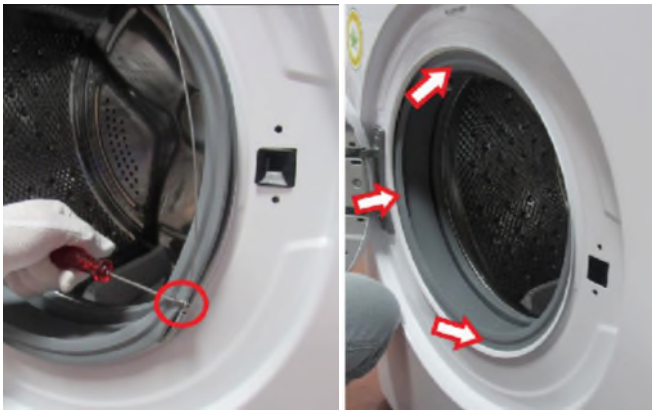


3.9 Remove the screw and plastic part located under the pump cover

## TUB BELLOW SEAL REPAIR INSTRUCTION



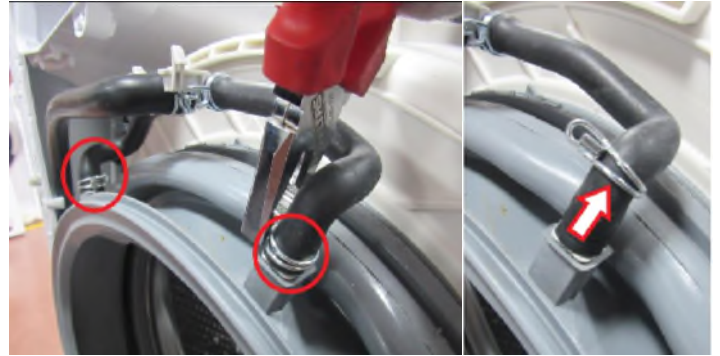
3.10 Remove the screw fixing the front panel at the bottom.



3.11 Remove the wire by using small screwdriver and push the seal to the inside



3.12 Pull up and remove the front panel.



3.13 Remove twinjet hoses from tub bellow seal pulling them up.



3.14 Remove the tub gasket clip by using small screwdriver.



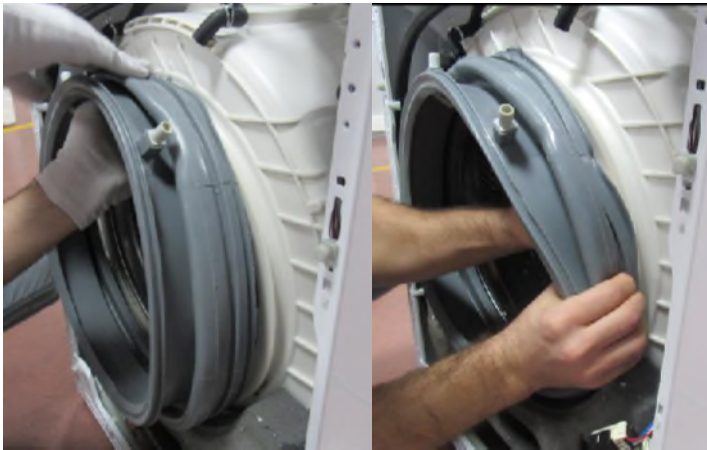
3.15 Hold the tub bellows seal and gasket-body fixing spring together, and pull them out.

## TUB BELLOW SEAL REPAIR INSTRUCTION

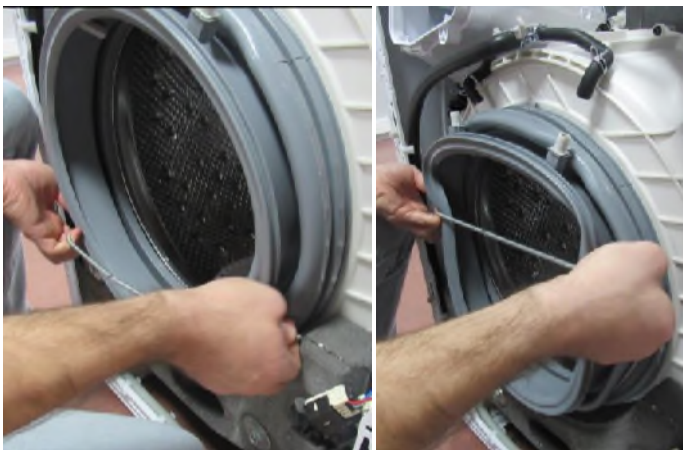
### 4. Assembly Instructions



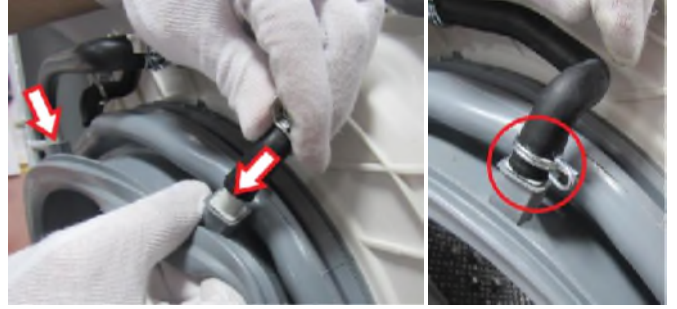
4.1 Guides must be matched



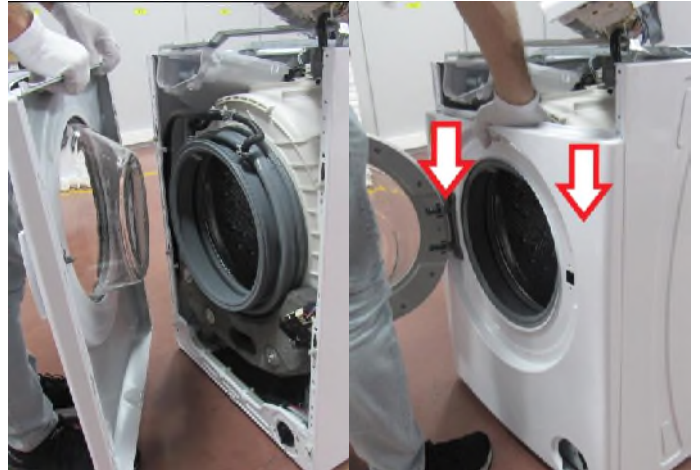
4.2 Fit the tub bellow seal to the front tub



4.3 Pull the tub gasket clip to the up by hand and fit it



4.4 Assemble the twinjet nozes and tighten the clips



4.5 Put the front panel to the cabinet and push down to set it



4.6 Tighten the door lock screw

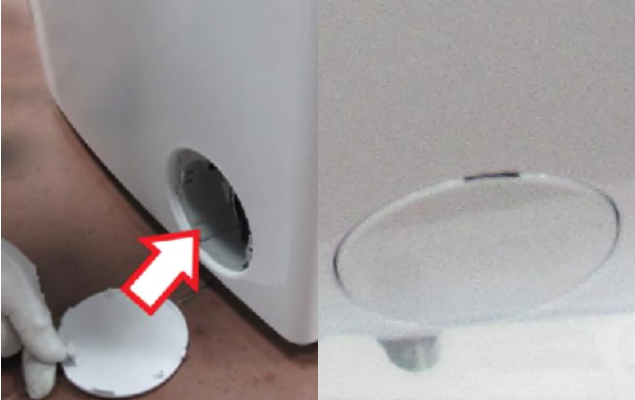
## TUB BELLOW SEAL REPAIR INSTRUCTION



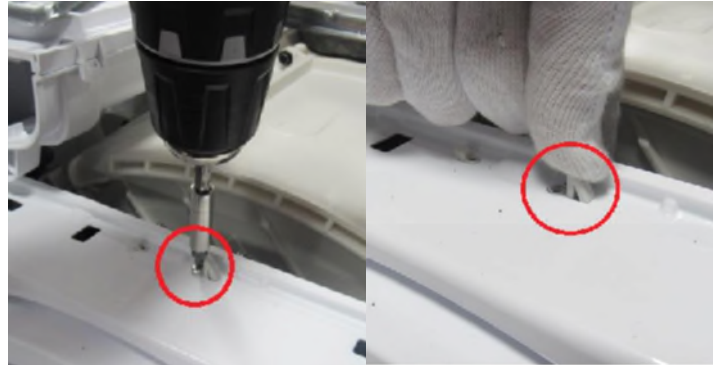
4.7 Pull the tub bellow seal to the outside and assemble the wire by using small screwdriver



4.8 Tighten the screw fixing the front panel at the bottom



4.9 Fit the screw and plastic part located under the pump cover



4.10 Assemble the twinjet elbow to the front panel



4.11 Tighten the screw on support bracket and two screws fixing front panel to body

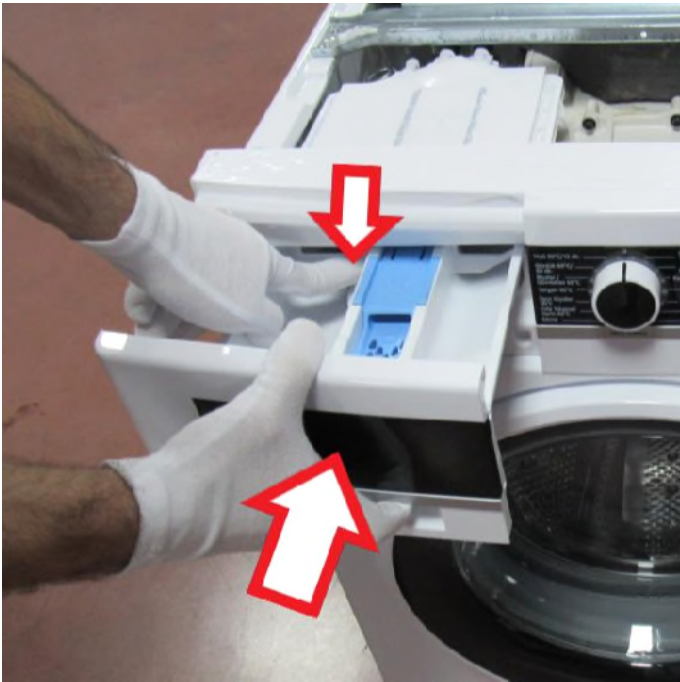


4.12 Tighten two screws fixing control panel.

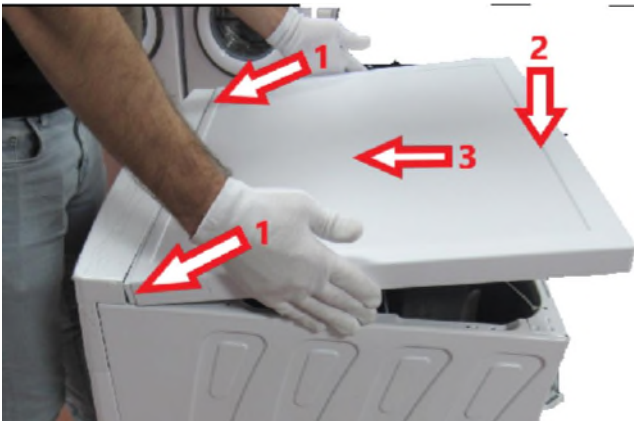


4.13 Tighten the screw which fixes the control panel to the front panel.

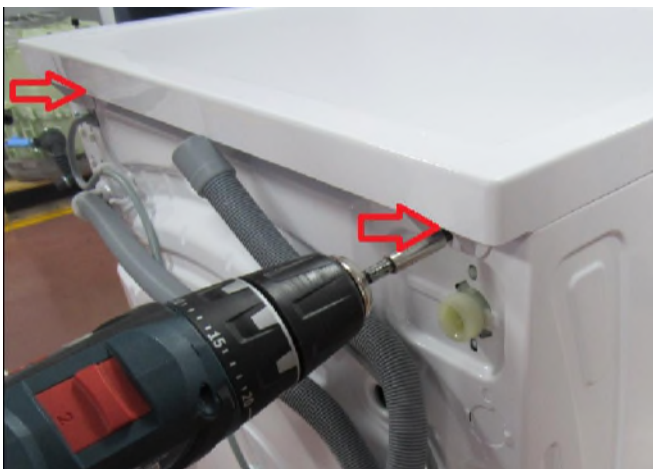
## TUB BELLOW SEAL REPAIR INSTRUCTION



4.15 While pressing siphon cover keep pushing drawer to fit



4.16 Fit the upper tray according to movement above



4.17 Tighten two screws that fix the top-plate at the back.

## DOOR LOCK REPAIR INSTRUCTION

### 1. Disconnection



1.1 Remove the plug



1.2 Turn off the tap and disconnect the hose from the valve



1.3 Disconnect the drain hose

### 2. Necessary Tools

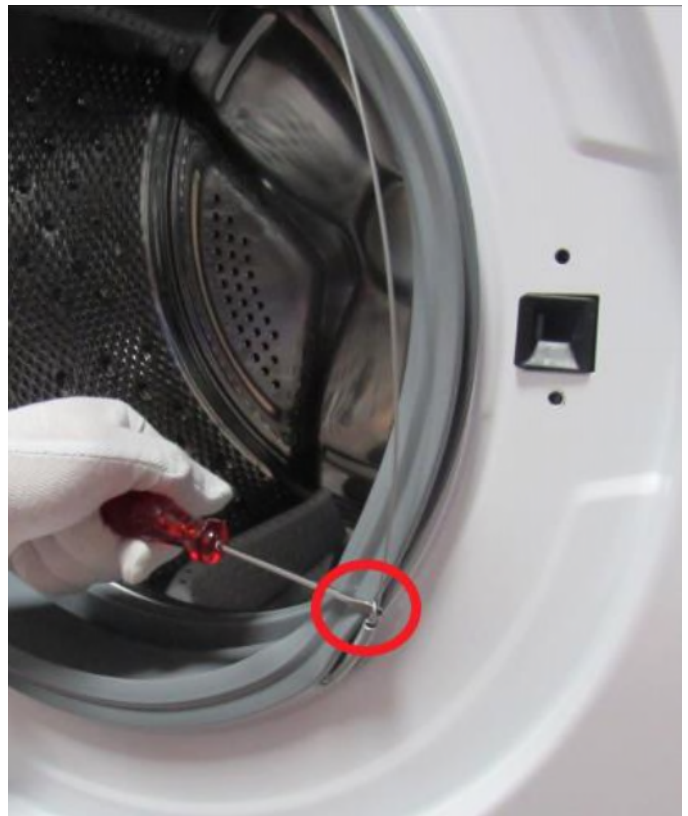


- A. Flat head thin screwdriver
- B. Torx T20
- C. Cordless screwdriver or classic screwdriver to use torx head (T20)

### 3. Disassembly Instructions



3.1 Remove the screws fixing the door lock.



3.2 Remove the wire by using small screwdriver

## DOOR LOCK REPAIR INSTRUCTION



3.3 Remove the right side of the tub bellows seal and reach to door lock

### 4. Assembly Instructions



4.1 Unplug the connector and remove the door lock. Connect the new door lock to connector.



4.3 Fix the tub bellow seal and fix the wire by using the small screwdriver



4.2 While supporting the door lock by hand, tighten the screws fixing the door lock.

<b>REPLACEMENT PROCEDURE</b>		<b>Applicable models</b>	<b>EN</b>
		<b>General</b>	
<b>Part name</b>	<b>Pump</b>		

### SAFETY PRECAUTIONS



Before any disassembly/repair operation make sure appliance is unplugged, water tap is closed and heating elements are cooled down. There is electrical shock, burning and flood risk.



Please replace whole cable group even in case there is any minor failure with cables / terminals / sockets. Never try to repair nor to solder cable group. It may cause smoke, ignition and there is major risk of electrical shock.



Straightly pull out or insert the terminals.  
Do not twist it. It may be the cause of damage or ignition.



Always use insulator gloves to prevent injury by metal edges or to prevent electrical shock during electrical tests.

Work with uniforms having long sleeves to protect your arms from metal edges.



Always use original spare parts. You may harm appliance, end user, environment or yourself using untested and unapproved 3rd party spare parts.



Use right tools to prevent any wear or damage to components during assembly/disassembly.



Do not touch any rotating object with hand unless it stops completely. Slow rotation may also roll in your hands and cause injury.



Rebuilding is prohibited. Do not rebuild machine parts and components when repairing service. It may be the cause of damage or ignition.

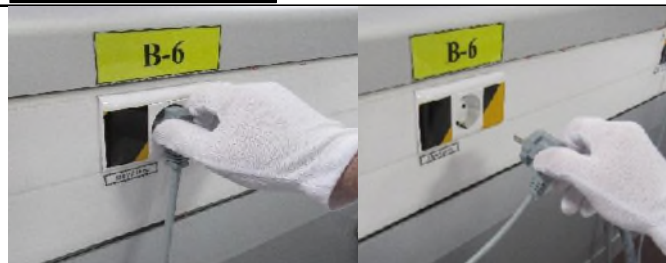
<b>REPLACEMENT PROCEDURE</b>		<b>Applicable models</b>	<b>EN</b>
		<b>General</b>	
<b>Part name</b>	<b>Pump</b>		

**Necessary Tools**



- A) Plier
- B) Flat head thin screwdriver
- C) Cordless screwdriver or classic screwdriver with torx head (T20)

**1. Disconnection**



1.1. Remove the plug

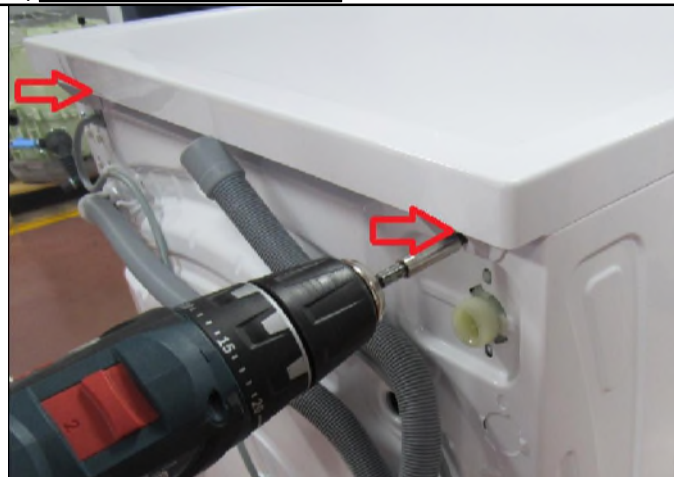


1.2. Turn off the tap and disconnect the hose from the valve

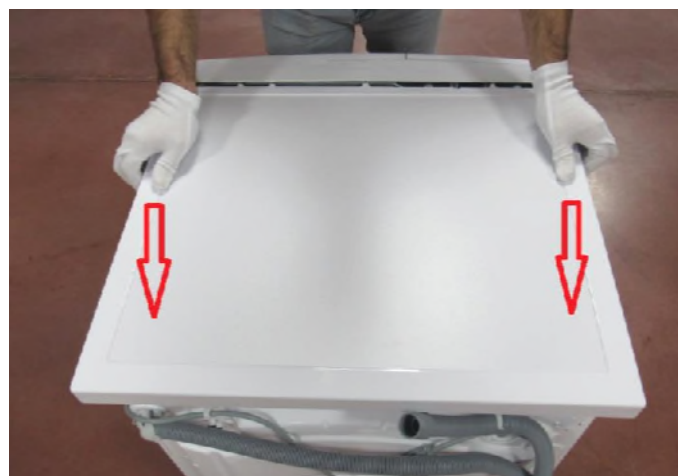


1.3. Disconnect the drain hose

**2) Disassembly Instructions**

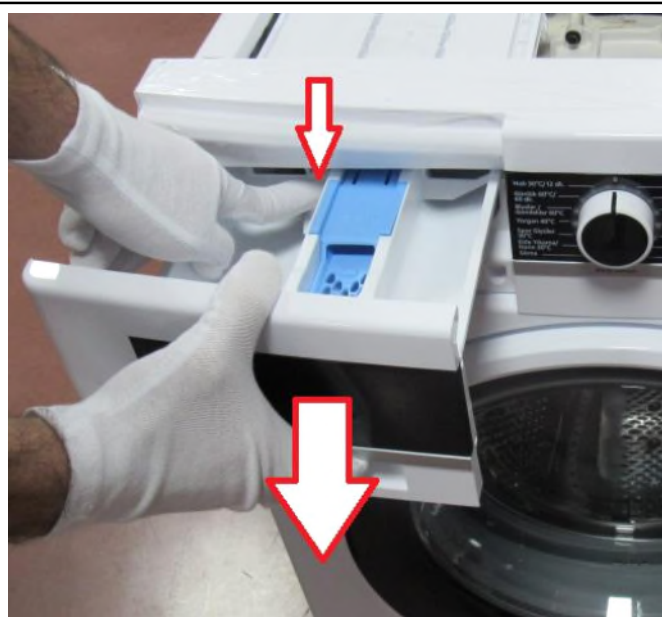


2.1. Remove two screws that fix the top-plate at the back.

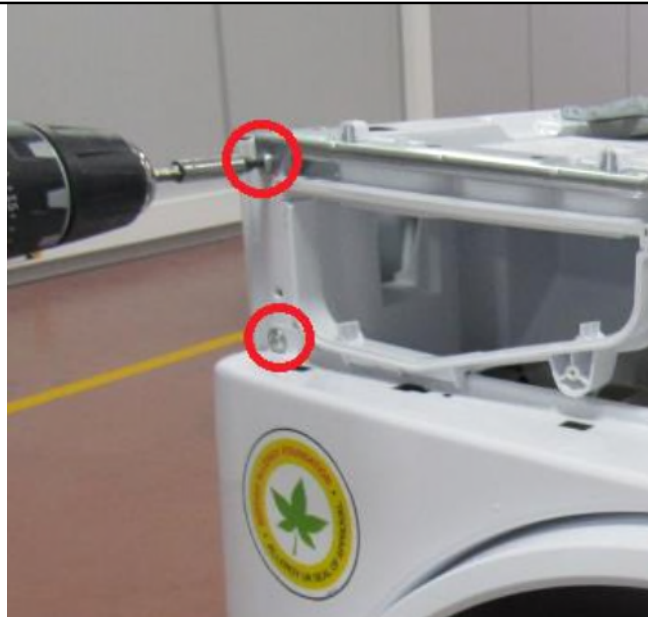


2.2. Push the top-plate back and pull it up.

REPLACEMENT PROCEDURE		Applicable models	EN
Part name	Pump	General	



2.3. While pressing siphon cover keep pulling drawer to remove it.



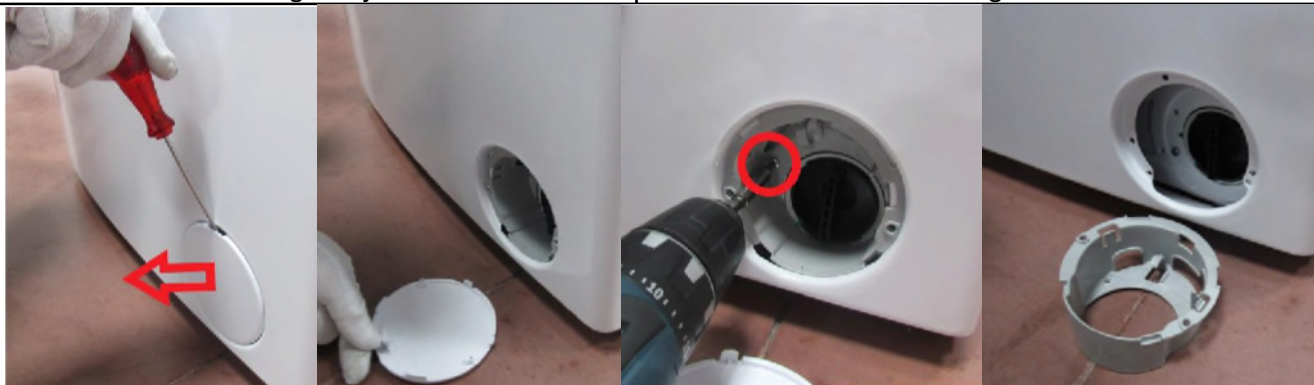
2.4. Remove the screw on support bracket and two screws fixing front panel to body



2.5. Remove the screw fixing twinjet elbow.

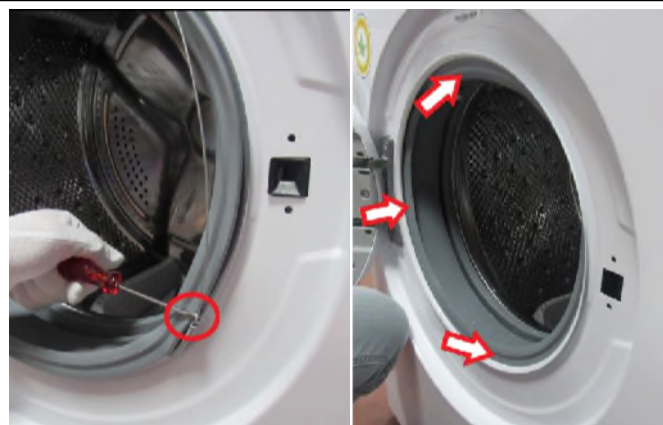


2.6. Remove the screws fixing the door lock.



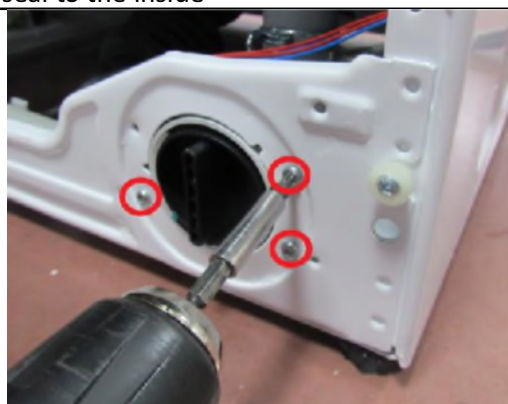
2.7. Remove the screw and plastic part located under the pump cover

REPLACEMENT PROCEDURE		Applicable models	EN
		General	
Part name	Pump		



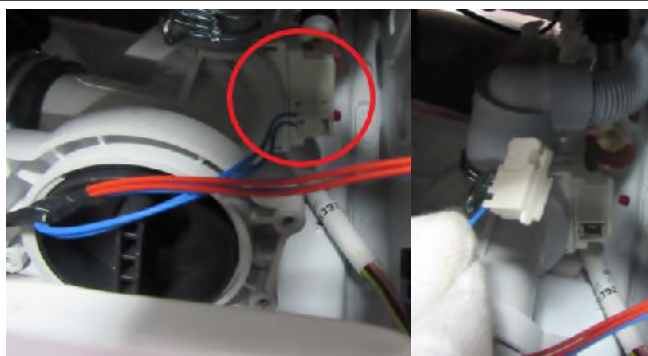
2.8. Remove the screw fixing the front panel at the bottom.

2.9. Remove the wire by using small screwdriver and push the seal to the inside



2.10. Pull up and remove the front panel.

2.11. Remove screws holding drain pump



2.12. Remove the drain pump connector

2.13. Remove clamp fixing tub outlet hose by using a plier



2.14. Remove clamp holding drain hose by using a plier.

2.15. Remove clamp holding twinjet hose by using a plier.

<b>REPLACEMENT PROCEDURE</b>		<b>Applicable models</b>	<b>EN</b>
		<b>General</b>	
<b>Part name</b>	<b>Pump</b>		

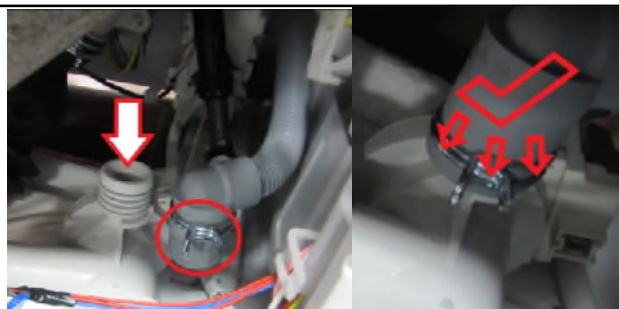


2.16. Remove the drain pump and change with the new one

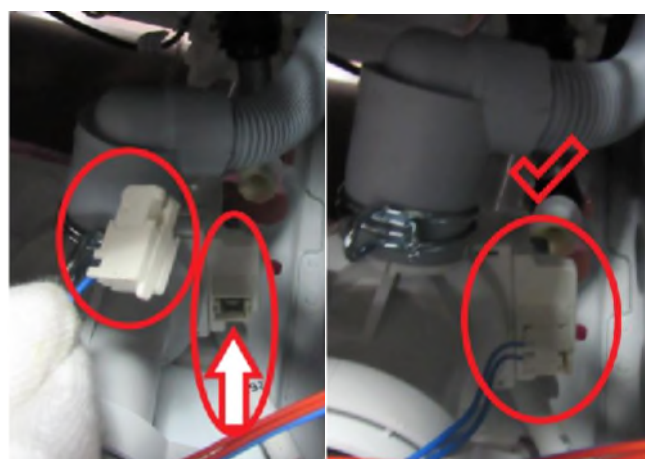
**3. Assembly Instructions**



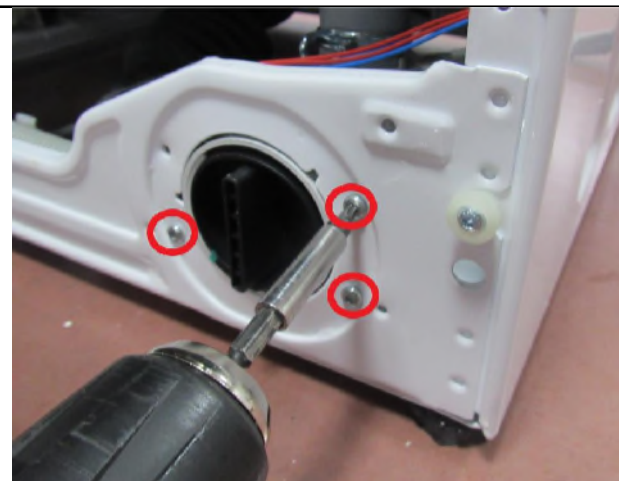
3.1. Connect the twinjet hose by using a plier to fix the clamp



3.2. Connect the drain hose by using a plier to fix the clamp



3.3. Connect the drain pump connector



3.4. Tighten the screws holding drain pump

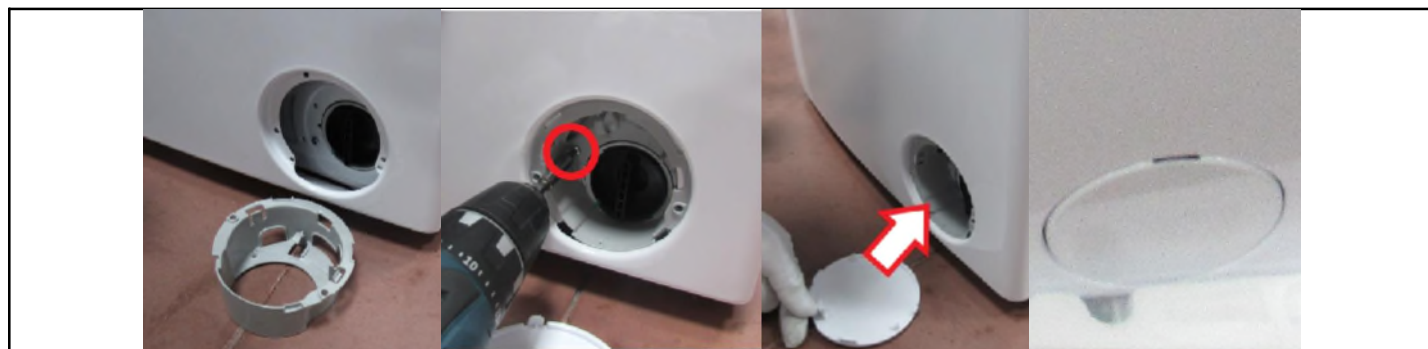


3.5. Pull the tub bellow seal to the outside and assemble the wire by using small screwdriver

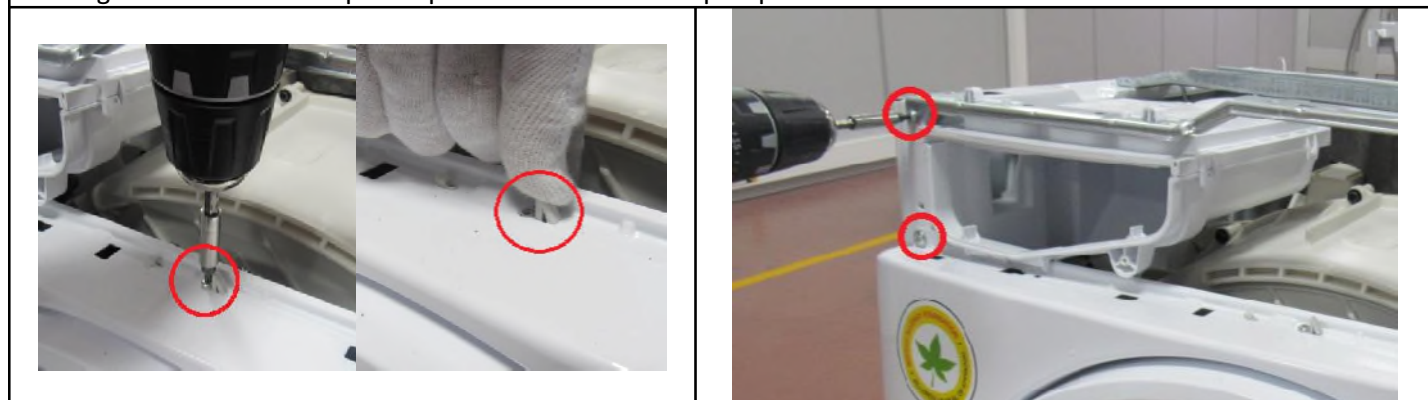


3.6. Tighten the screw fixing the front panel at the bottom

<b>REPLACEMENT PROCEDURE</b>		<b>Applicable models</b>	<b>EN</b>
		<b>General</b>	
<b>Part name</b>	<b>Pump</b>		



3.7. Tighten the screw and plastic part located under the pump cover



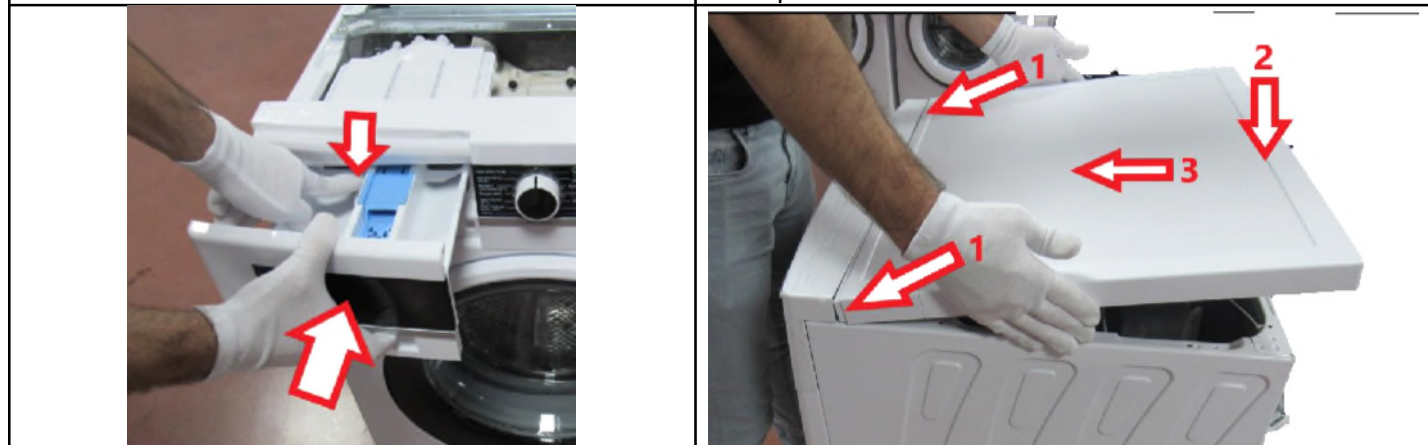
3.8. Assemble the twinjet elbow to the front panel

3.9. Tighten the screw on support bracket and two screws fixing front panel to body



3.10. Tighten two screws fixing control panel.

3.11. Tighten the screw which fixes the control panel to the front panel.

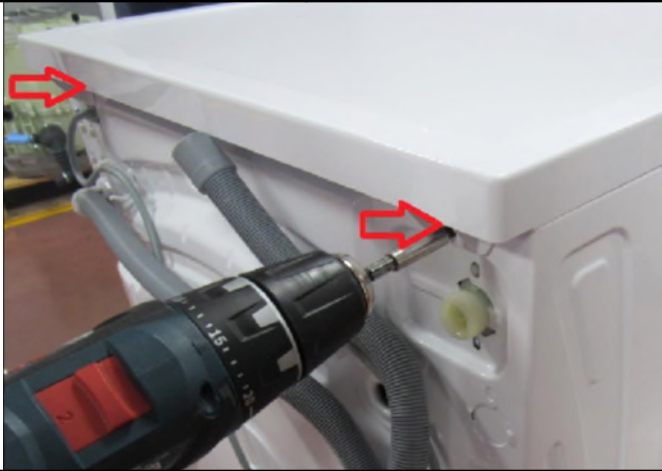


3.12. While pressing siphon cover keep pushing

3.13. Fit the upper tray according to movement above

<b>REPLACEMENT PROCEDURE</b>		<b>Applicable models</b>	<b>EN</b>
<b>Part name</b>	<b>Pump</b>	<b>General</b>	

drawer to fit it.



3.14. Tighten two screws that fix the top-plate at the back

# PCB REPAIR INSTRUCTION

## 1. Disconnection



1.1 Remove the plug



1.2 Turn off the tap and disconnect the hose from the valve



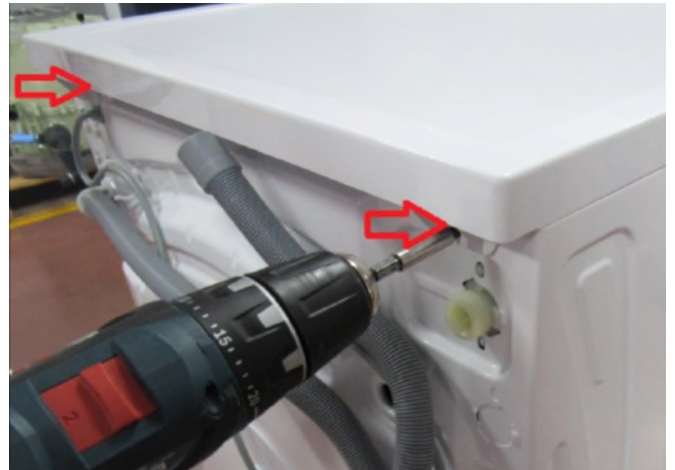
1.3 Disconnect the drain hose

## 2. Necessary Tools

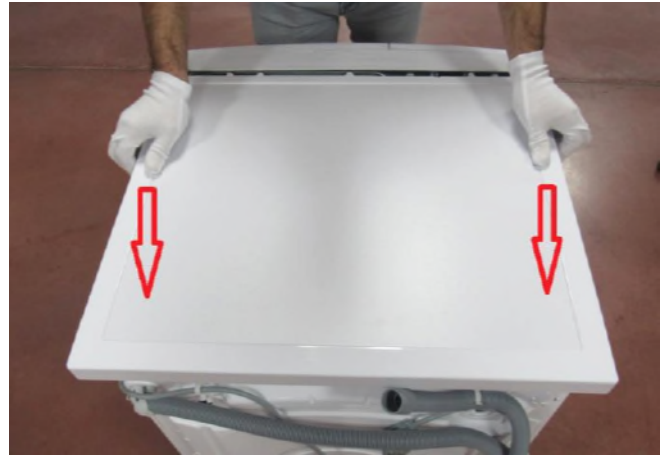


- A. Cordless screwdriver with torx T20 head
- B. or classic screwdriver with torx T20 head
- C. Flat head thin screwdriver

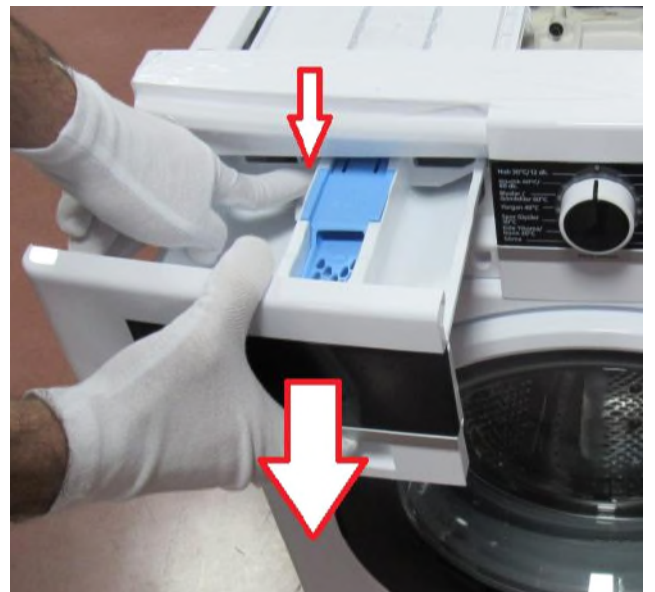
## 3. Disassembly Instructions



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



3.2 Push the top-plate back and pull it up.

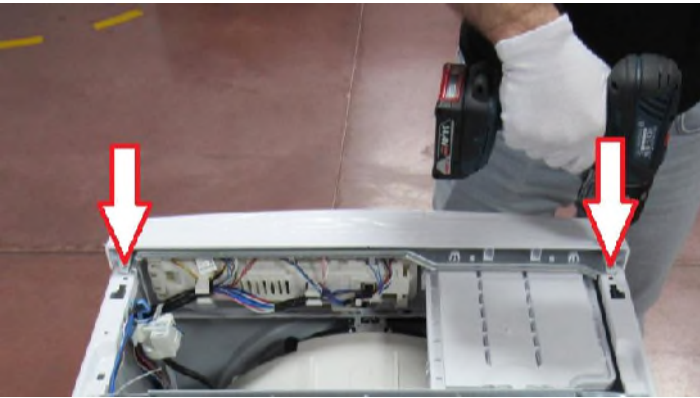


3.3 While pressing siphon cover keep pulling drawer to remove it.

## PCB REPAIR INSTRUCTION



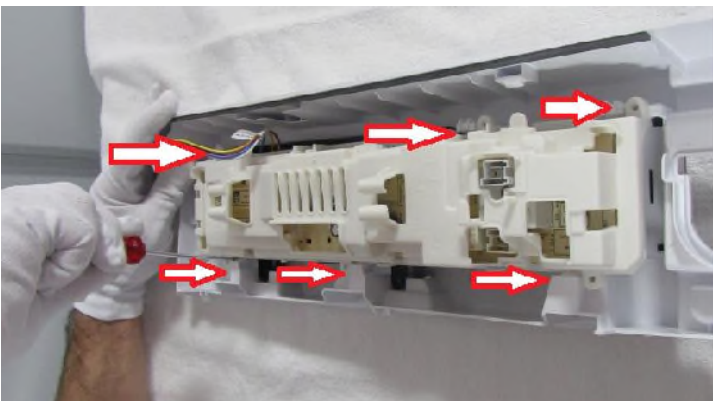
3.4 Remove the screw which fixes the control panel to the front panel.



3.5 Remove two screws fixing control panel.



3.6 Remove the sockets on the card.

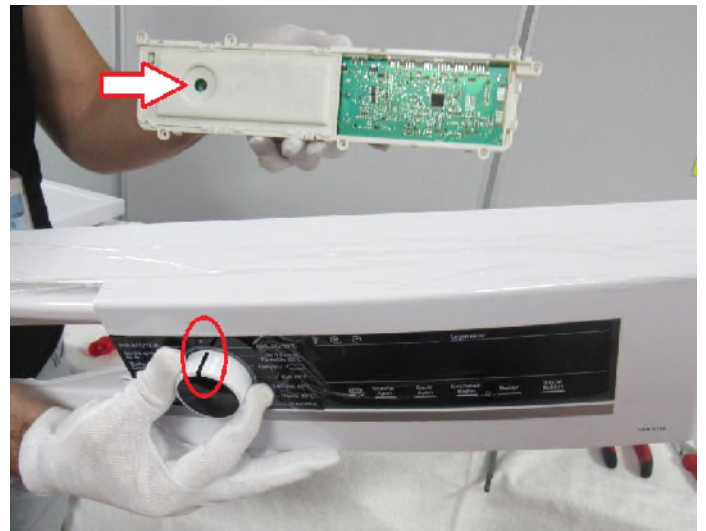


3.7 Depress the taps fixing the card by using a screwdriver

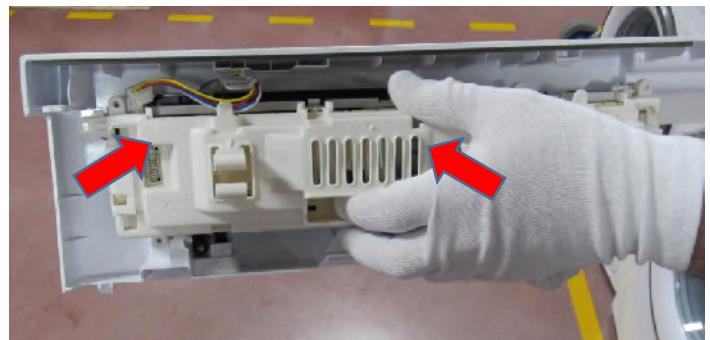


3.8 After releasing sockets, remove PCB box from its housing

## 4. Assembly Instructions

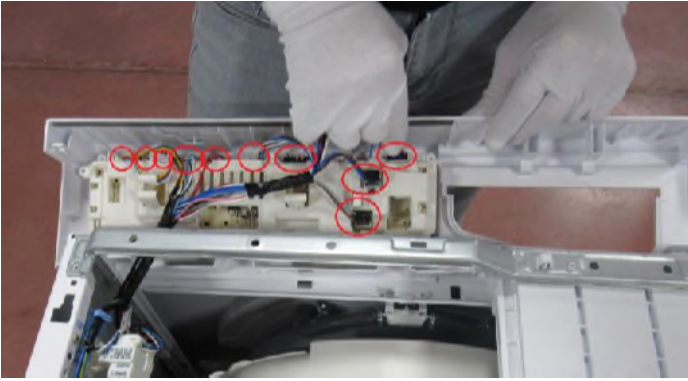


4.1 Be sure the knob is in the "zero" position

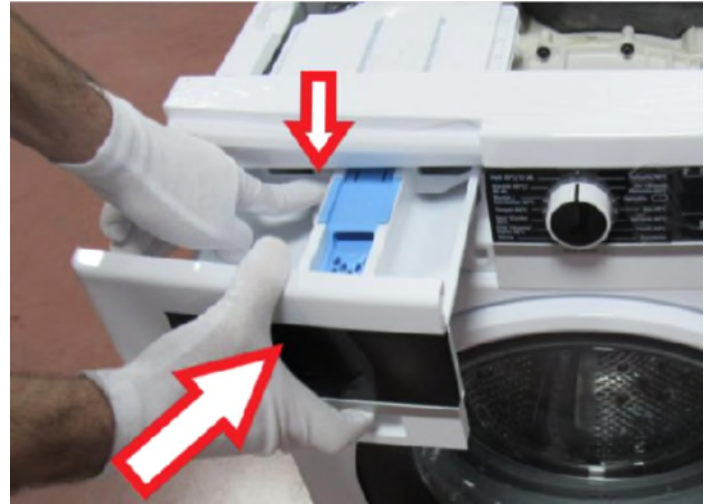


4.2 Push the PCB box and fit to the housing

## PCB REPAIR INSTRUCTION



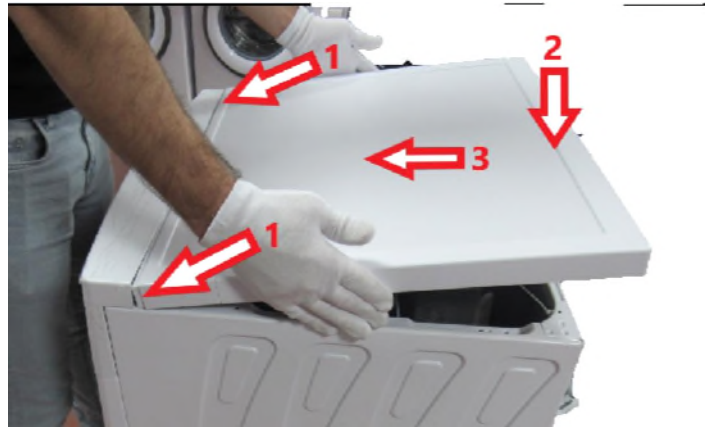
4.3 Connect the all sockets on the card according to the wiring diagram.



4.6 While pressing siphon cover keep pushing drawer to assemble it.



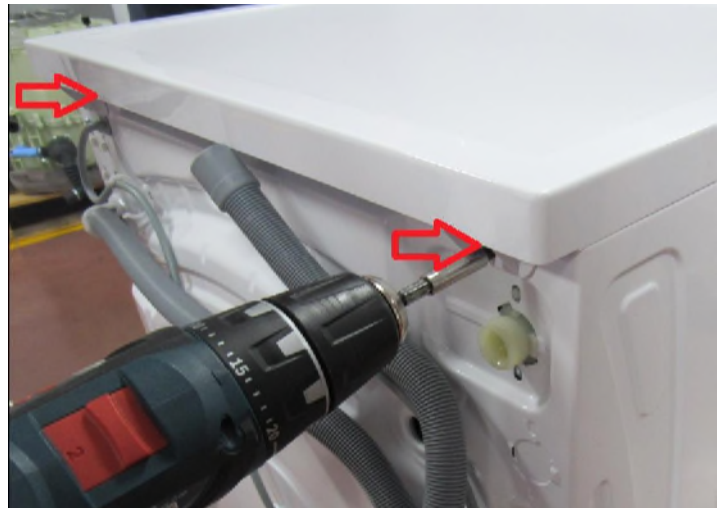
4.4 Tighten the two screws on control panel.



4.7 Fit the upper tray according to movement above



4.5 Tighten the screw which fixes the control panel to the front panel.



4.8 Tighten two screws that fix the top-plate at the back.

## HEATER REPAIR INSTRUCTION

### 1. Disconnection



*Remove the plug*



*Turn off the tap and disconnect the hose from the valve*



*Disconnect the drain hose*

### 2. Necessary Tools

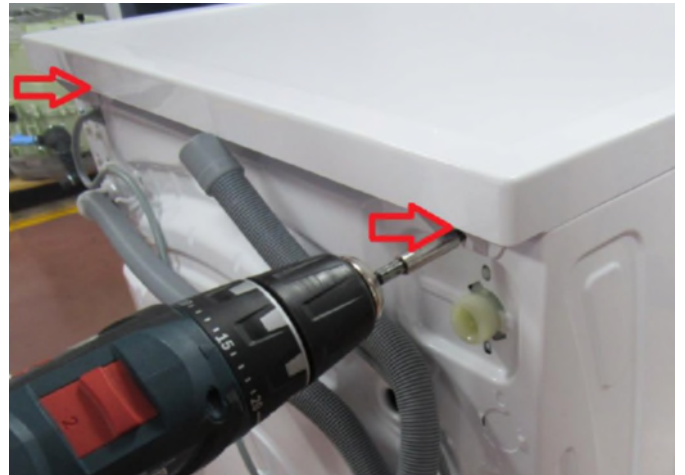


A. Plier

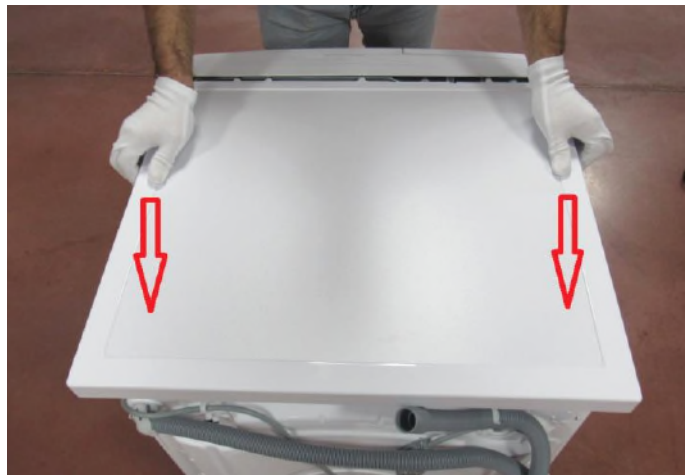
B. Flat head screwdriver

C. Ratchet Wrench with M8 head

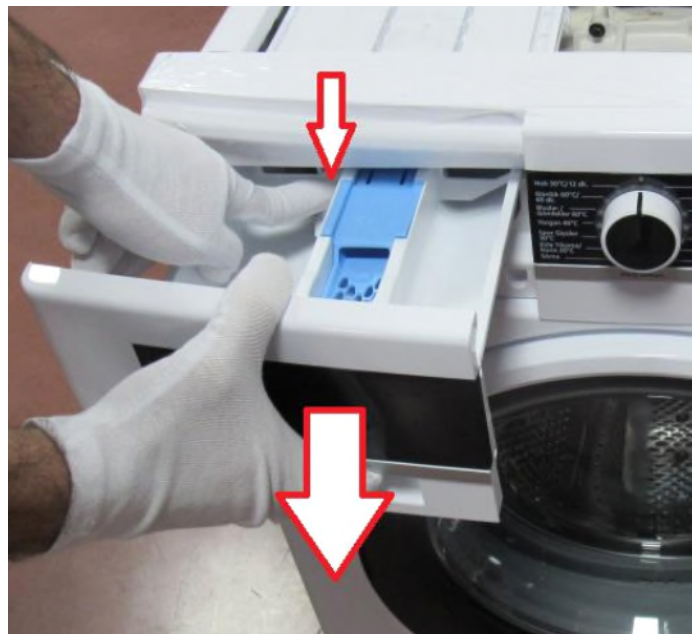
### 3. Disassembly Instructions



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



*Push the top-plate back and pull it up.*

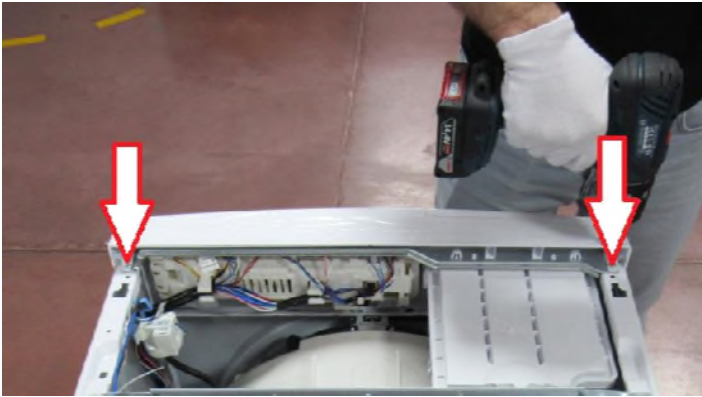


*While pressing siphon cover keep pulling drawer to remove it.*

## HEATER REPAIR INSTRUCTION



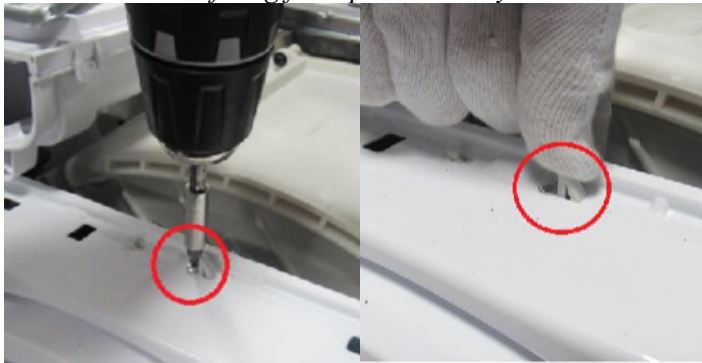
*Remove the screw which fixes the control panel to the front panel.*



*Remove two screws fixing control panel.*



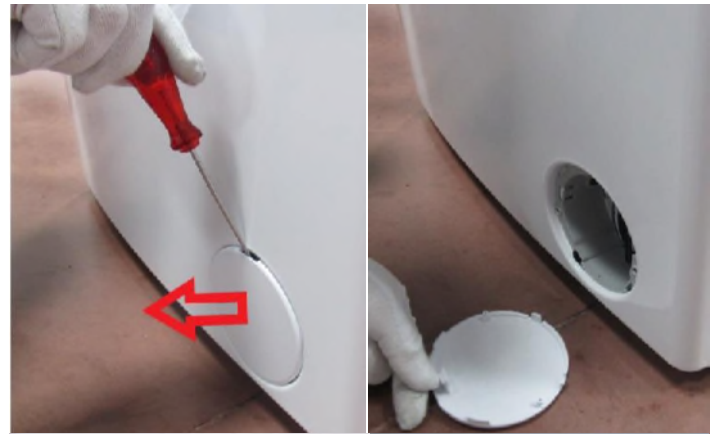
*Remove the screw on support bracket and two screws fixing front panel to body*



*Remove the screw fixing twinjet elbow.*



*Remove the screws fixing the door lock.*

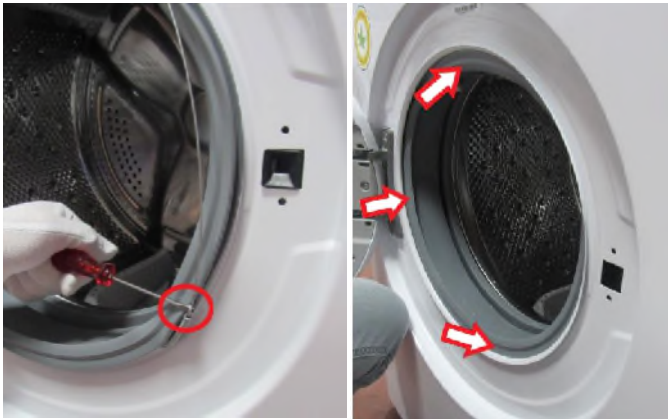


*Remove the screw and plastic part located under the pump cover*

## HEATER REPAIR INSTRUCTION



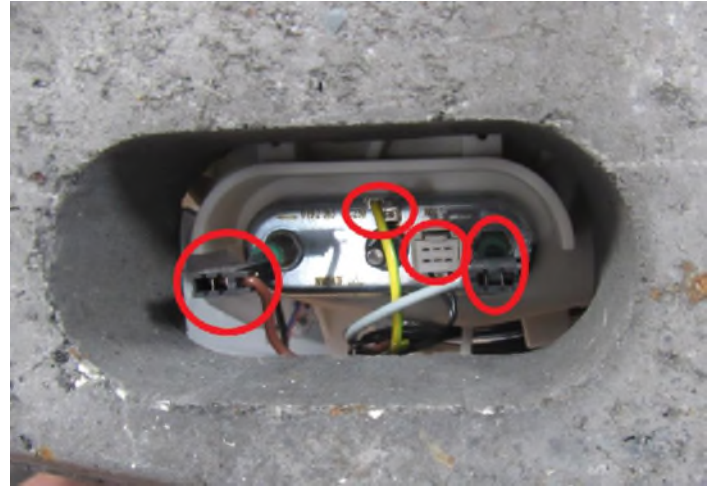
Remove the screw fixing the front panel at the bottom.



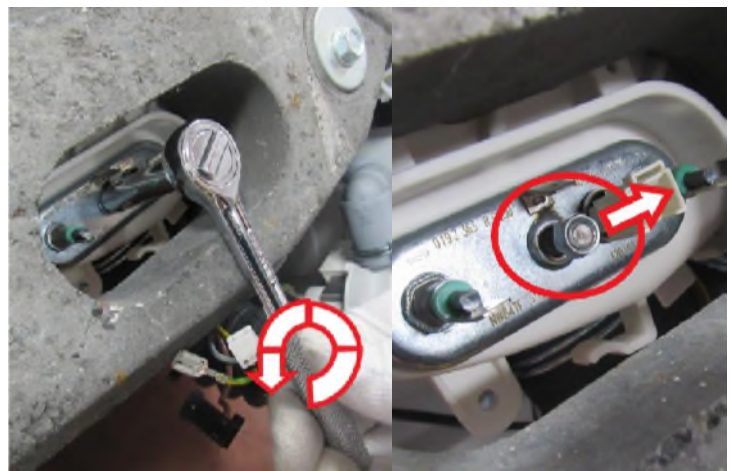
Remove the wire by using small screwdriver and push the seal to the inside



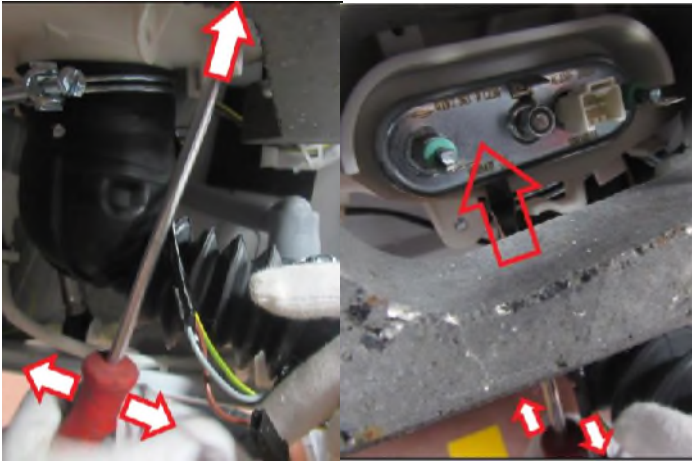
Pull up and remove the front panel.



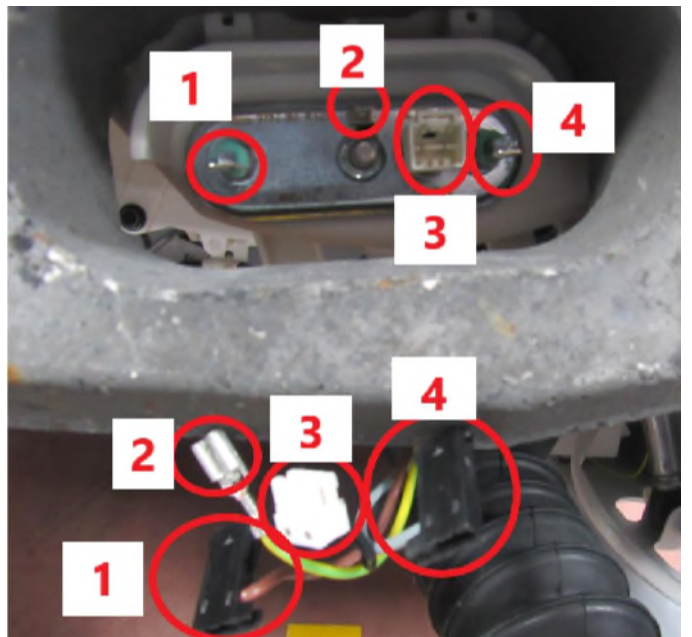
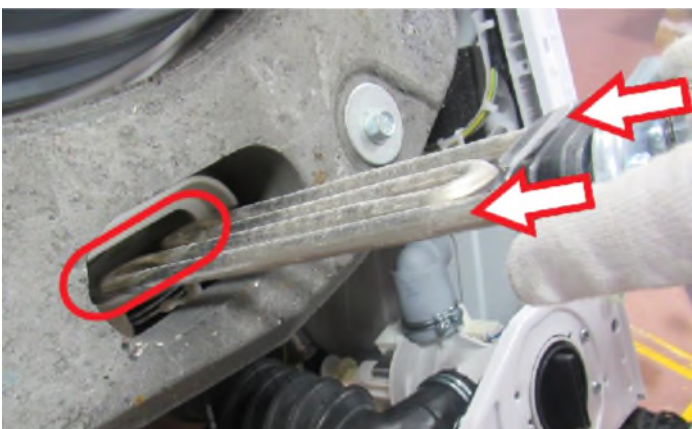
Remove the heater sockets



# HEATER REPAIR INSTRUCTION



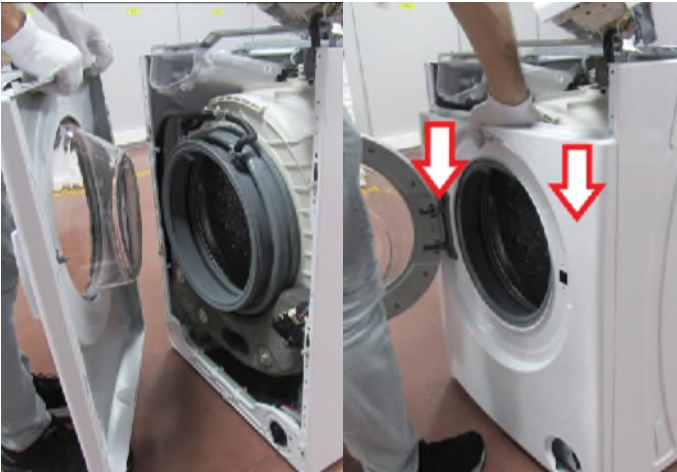
## 4. Assembly Instructions



## HEATER REPAIR INSTRUCTION



*Pull the tub bellow seal to the outside and assemble the wire by using small screwdriver*



*Put the front panel to the cabinet and push down to set it*



*Tighten the screw fixing the front panel at the bottom*



*Tighten the door lock screw*



## HEATER REPAIR INSTRUCTION

*Tighten the screw and plastic part located under the pump cover*



*Assemble the twinjet elbow to the front panel*



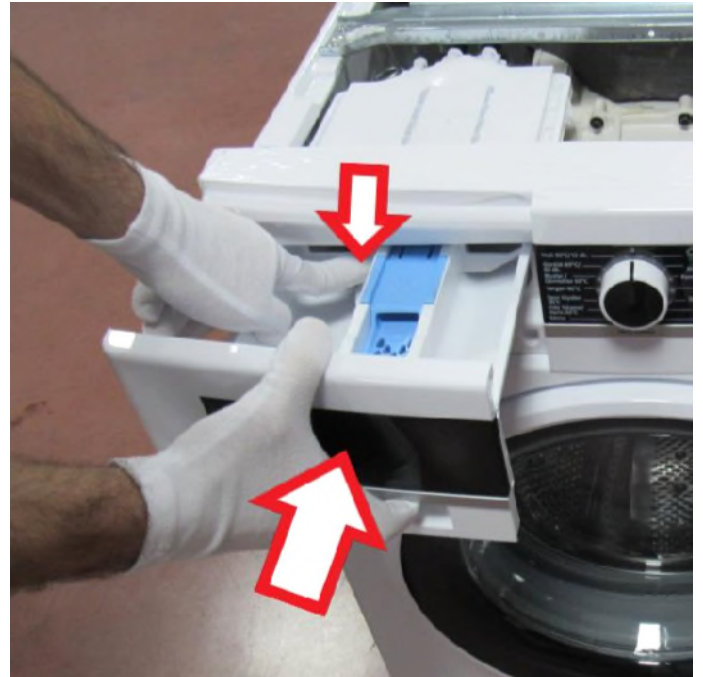
*Tighten the screw on support bracket and two screws fixing front panel to body*



*Tighten two screws fixing control panel.*



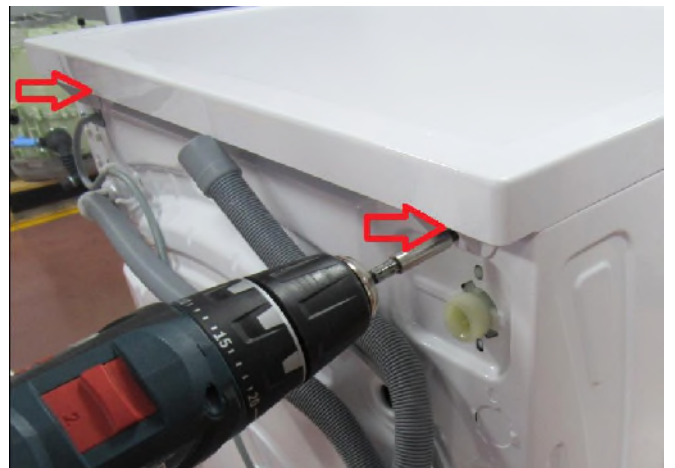
*Tighten the screw which fixes the control panel to the front panel.*



*While pressing siphon cover keep pushing drawer to fit it*



*Fit the upper tray according to movement above*



*Tighten two screws that fix the top-plate at the back.*

<b>REPLACEMENT PROCEDURE</b>		<b>Applicable models</b>	<b>EN</b>
		<b>General</b>	
<b>Part name</b>	<b>Door, Hinge ve Handle</b>		

### SAFETY PRECAUTIONS



Before any disassembly/repair operation make sure appliance is unplugged, water tap is closed and heating elements are cooled down. There is electrical shock, burning and flood risk.



Please replace whole cable group even in case there is any minor failure with cables / terminals / sockets. Never try to repair nor to solder cable group. It may cause smoke, ignition and there is major risk of electrical shock.



Straightly pull out or insert the terminals.  
Do not twist it. It may be the cause of damage or ignition.



Always use insulator gloves to prevent injury by metal edges or to prevent electrical shock during electrical tests.

Work with uniforms having long sleeves to protect your arms from metal edges.



Always use original spare parts. You may harm appliance, end user, environment or yourself using untested and unapproved 3rd party spare parts.



Use right tools to prevent any wear or damage to components during assembly/disassembly.



Do not touch any rotating object with hand unless it stops completely. Slow rotation may also roll in your hands and cause injury.

<b>REPLACEMENT PROCEDURE</b>		<b>Applicable models</b>	<b>EN</b>
		<b>General</b>	
<b>Part name</b>	<b>Door, Hinge ve Handle</b>		



Rebuilding is prohibited. Do not rebuild machine parts and components when repairing service. It may be the cause of damage or ignition.

### Necessary Tools



- A) Plier
- B) Flat head thin screwdriver
- C) Cordless screwdriver or classic screwdriver with torx head (T25)

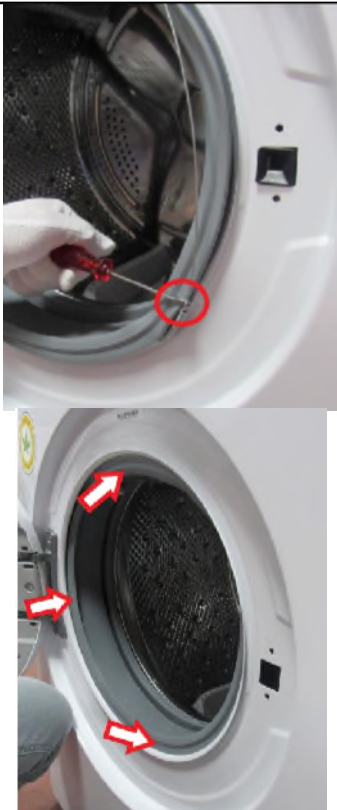



### 1. Disconnection



Remove the plug

### 2) Disassembly Instructions

<b>REPLACEMENT PROCEDURE</b>		<b>Applicable models</b>	<b>EN</b>
		<b>General</b>	
<b>Part name</b>	<b>Door, Hinge ve Handle</b>		

	
<p>2.1. Remove the wire by using small screwdriver and push the seal to the inside</p>	<p>2.2. Remove the door hinge screws by using a Tx25 head screwdriver</p>
	
<p>2.3. Remove the door</p>	<p>2.4. There is hinge support sheet behind the front panel. Please keep it stable while operation and do not forget to assemble it to the front panel.</p>
<p>Follow the hinge and handle changing instructions if needed after this step. If not required to replace the hinge and handle, you can skip to the door assembly section.</p>	

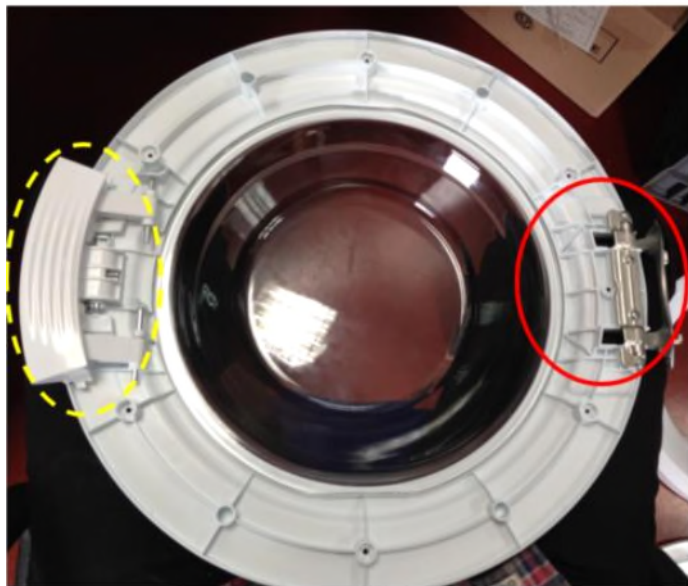
<b>REPLACEMENT PROCEDURE</b>		<b>Applicable models</b>	<b>EN</b>
		<b>General</b>	
<b>Part name</b>	<b>Door, Hinge ve Handle</b>		



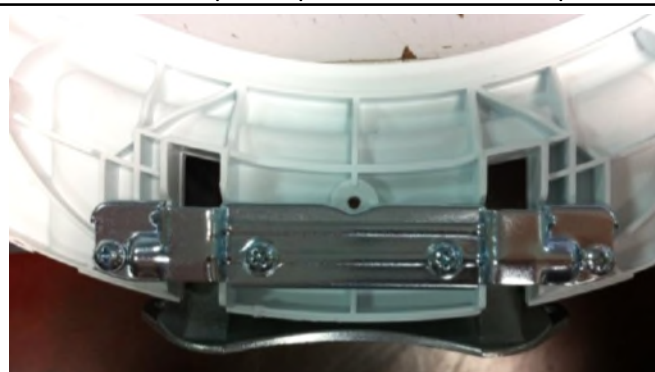
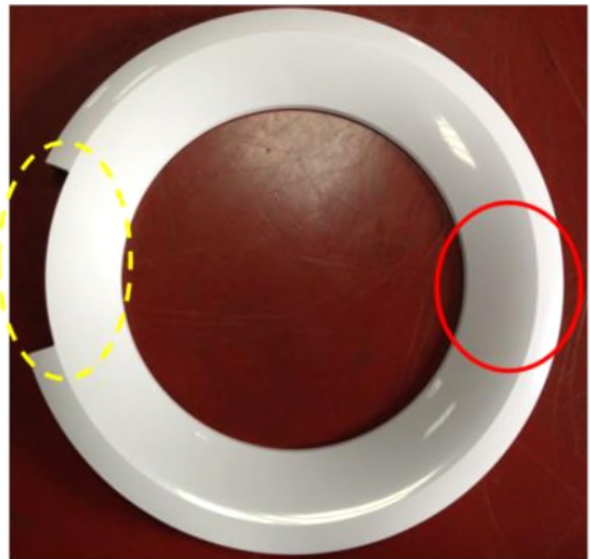
2.5. Remove the screws on the door, a number of the screws may change based on the door type.



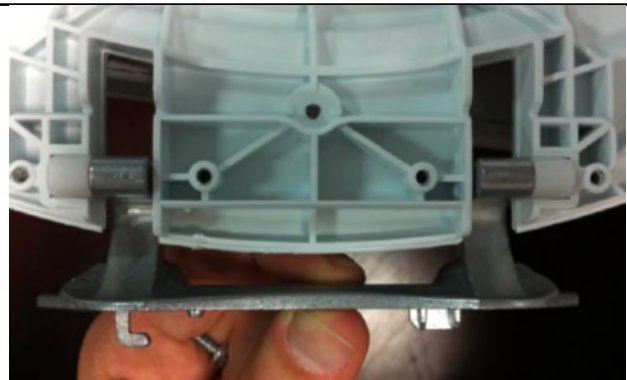
2.6. You can use a screwdriver to separate the front and back plastics from the area in the photo.



2.7. Remove the plastic parts as shown in the photo above.



2.8. Remove the hinge sheet by screwdriver



2.9. Remove the hinge

IF THE PRODUCT HAS PLASTIC HINGE PLEASE FOLLOW THE INSTRUCTIONS BELOW

<b>REPLACEMENT PROCEDURE</b>		<b>Applicable models</b>	<b>EN</b>
		<b>General</b>	
<b>Part name</b>	<b>Door, Hinge ve Handle</b>		

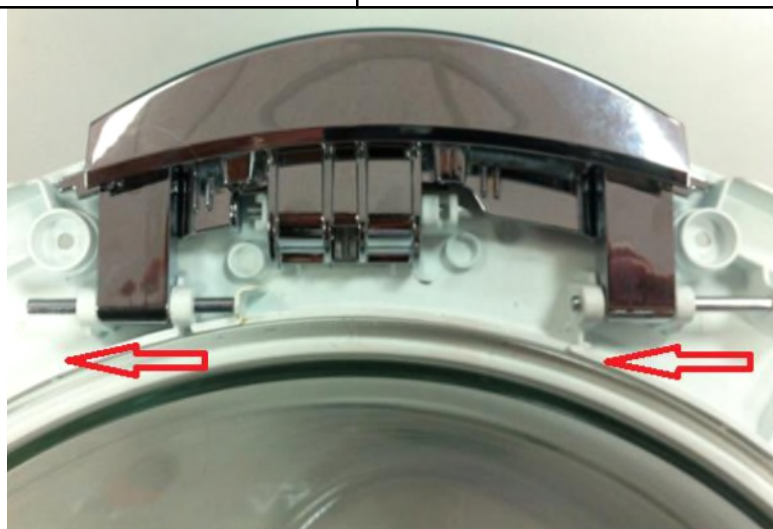


2.10. Hinge needs to be changed as a group for the door which has no handle.

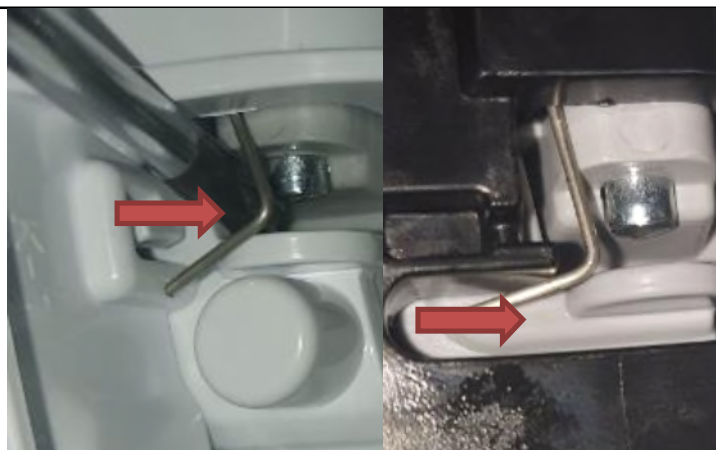
2.11. Remove the screws and assemble the new part as a group.

DISASSEMBLY FOR THE OUTSIDE HANDLE

DISASSEMBLY FOR THE INSIDE HANDLE



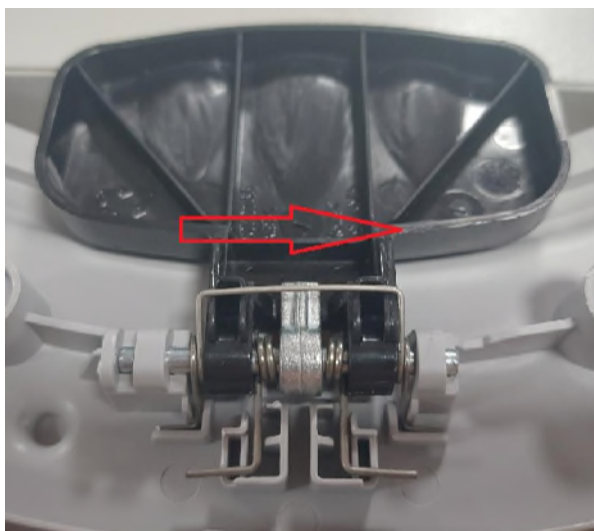
2.12. Remove the pins in the direction of the arrows



<b>REPLACEMENT PROCEDURE</b>		<b>Applicable models</b>	<b>EN</b>
		<b>General</b>	
<b>Part name</b>	<b>Door, Hinge ve Handle</b>		

2.13. Remove the spring from the hosue (depends on the model)

INSIDE HANDLE DISASSEMBLY



2.14. Remove the pin in the direction of the arrow.

2.15. Use the knife or thin flat head screwdriver to remove the pin.



2.16. Take the pin by a plier. Then please take off the door handle and assemble the new one.

**3. Assembly Instructions**

Please pay attention to intructions according to the door handle type. If you have not dropped the hinge support sheet to inside the machine, you can skip the tub bellow seal disassembly step.

<b>REPLACEMENT PROCEDURE</b>		<b>Applicable models</b>	<b>EN</b>
		<b>General</b>	
<b>Part name</b>	<b>Door, Hinge ve Handle</b>		



3.1 Remove the wire by using small screwdriver and push the seal to the inside



3.2 Push the seal to the inside

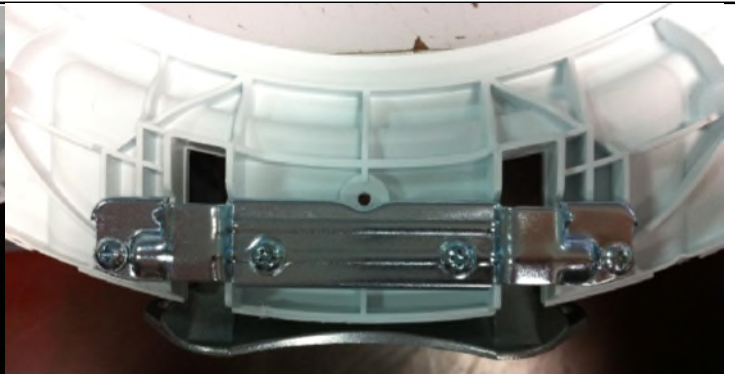
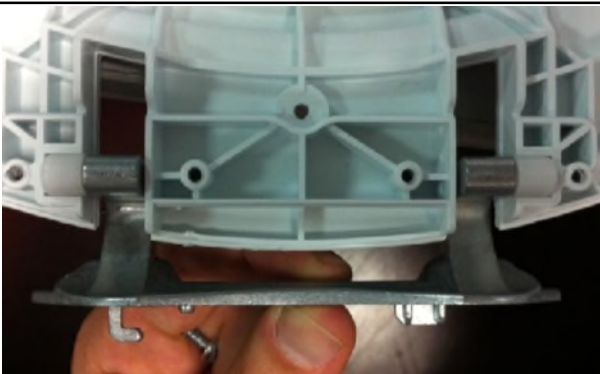


3.3 Take the hinge support sheet



3.4 Fit the hinge support sheet to the housing on the front panel.

**DOOR HINGE ASSEMBLY INSTRUCTIONS (Please follow the instructions which is related to your type)**



3.5 Fit the door hinge to the housing on the door and place the hinge sheet over it. The screw number may change depends on the door model.

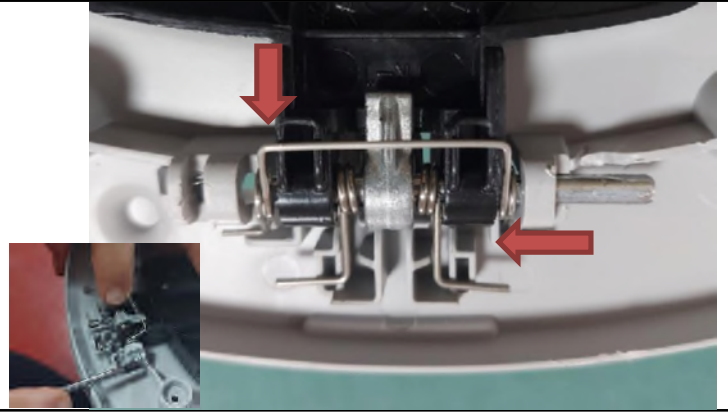
<b>REPLACEMENT PROCEDURE</b>		<b>Applicable models</b>	<b>EN</b>
<b>Part name</b>	<b>Door, Hinge ve Handle</b>	<b>General</b>	



3.6 If the hinge on your product is the same as the photo above, you must change it as a group since it is not possible to remove the pin.

DOOR HANDLE ASSEMBLY (Please follow the instructions suitable for your models)

Assembly Instructions for the handle form inside



3.7 Place the parts as like photo above

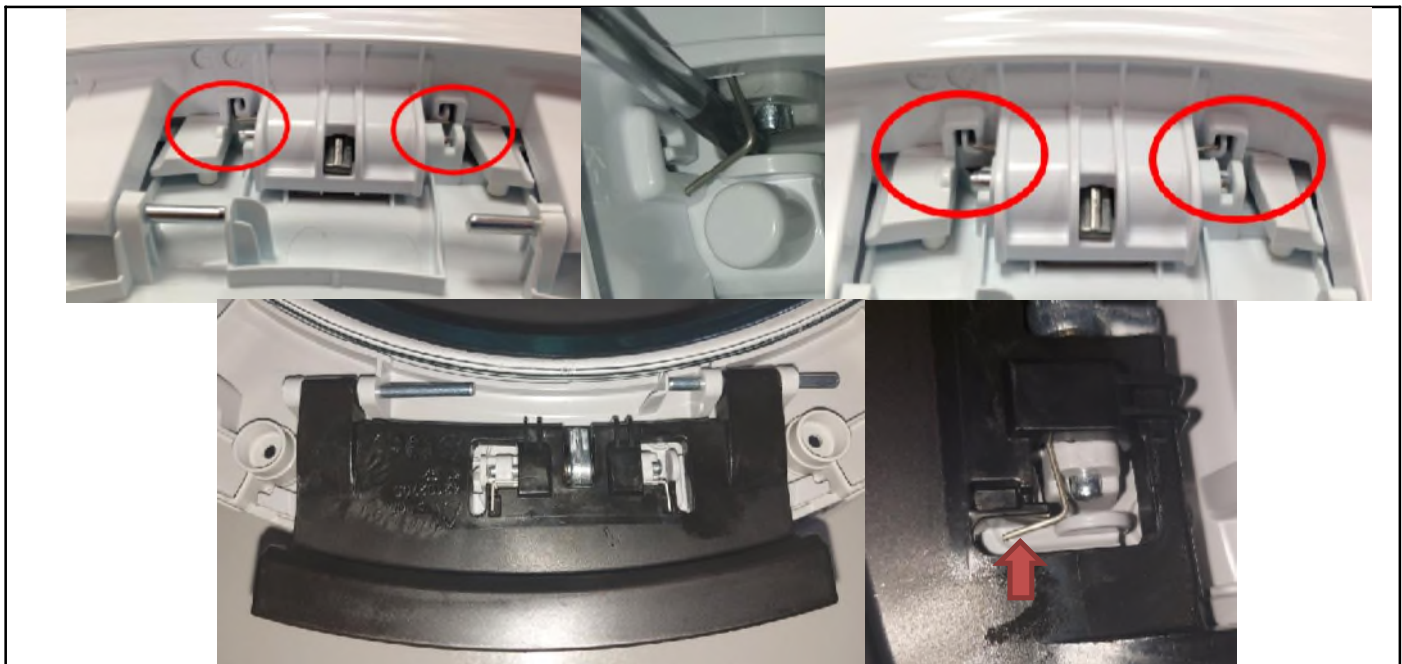
3.8 Fit the pin to the house and as shown in the photo above.

Dıştan tutamaklı Kapı Tutamağı Montajı

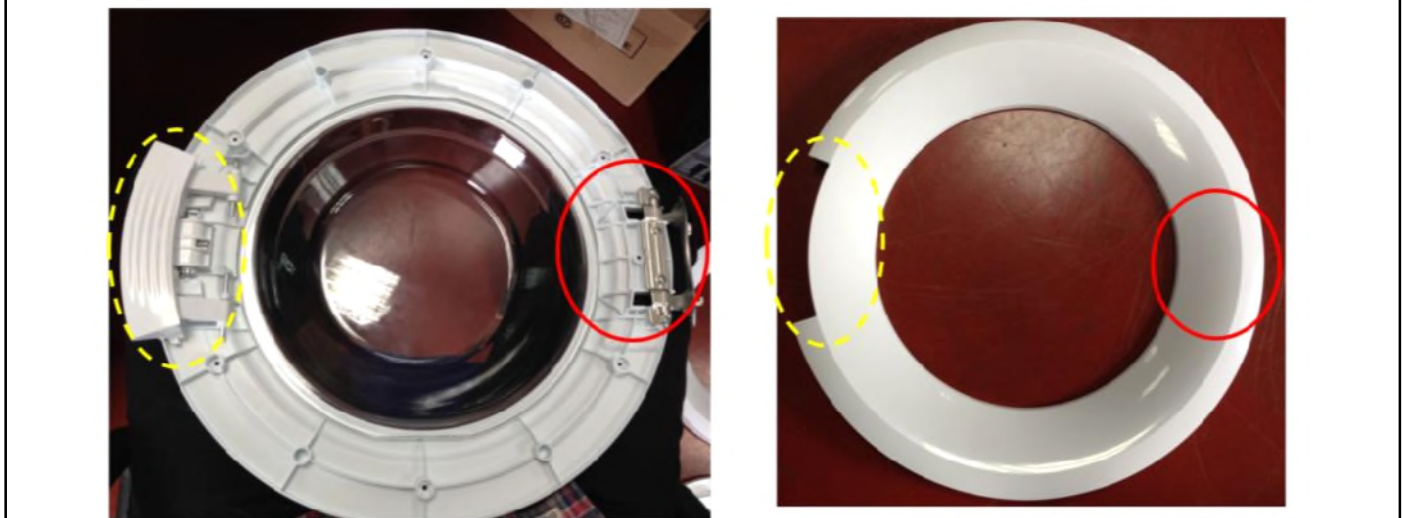


3.9 Please follow the instructions as like in the photos. Place the springs to the houses on the door frame.

REPLACEMENT PROCEDURE		Applicable models	EN
		General	
Part name	Door, Hinge ve Handle		



3.10 After fitting the handles, springs needs to be assemble to the handle as shown the photos above.



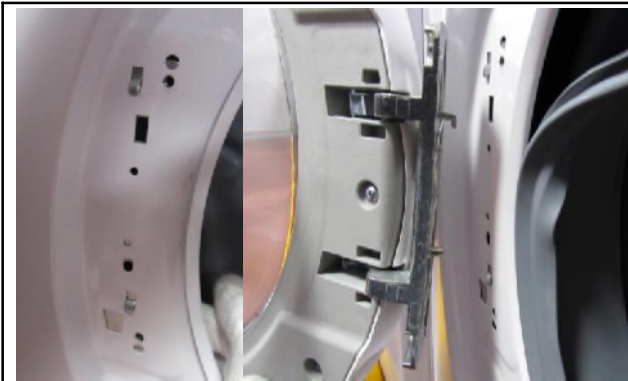
3.11 After the assembly of the handle or hinge, door outer plastic should be fitted. Please do not forget the assembly of the door glass too.



3.12 Be sure that all the parts have been fitted very well.

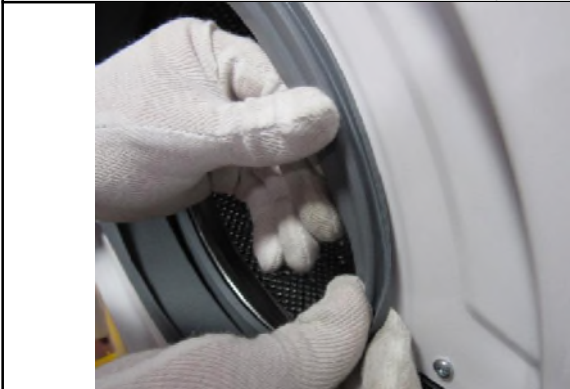
3.13 Assemble the all screws on the inside plastic part of the door.

<b>REPLACEMENT PROCEDURE</b>		<b>Applicable models</b>	<b>EN</b>
		<b>General</b>	
<b>Part name</b>	<b>Door, Hinge ve Handle</b>		



3.14 If the hinge support sheet had fallen inside to unit, please follow the related previous instructions to fit it to the front panel firstly. After that assemble the door to the front panel

3.15 Tighten the hinge screw by using a Tx25 screwdriver.



3.16 If the tub bellow seals had removed before, please assemble it again.

3.17 Place the seal spring and fit to the housing on the front panel.



3.18 Spring must be fitted very well as shown in the photo above.