

WASHING MACHINE SERVICE MANUAL

WFMC6010/WFMC6010S/WFMC6010T

WFVC6010/WFVC6010S/WFVC6010T

WFRC6010/WFRC6010S/WFRC6010T

WFHC6010/WFHC6010S/WFHC6010T



**READ THIS MANUAL CAREFULLY TO DIAGNOSE
PROBLEMS CORRECTLY BEFORE SERVICING THE UNIT.**

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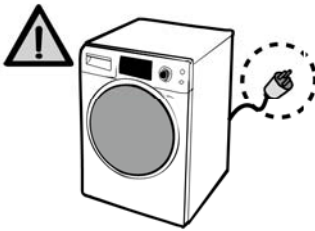
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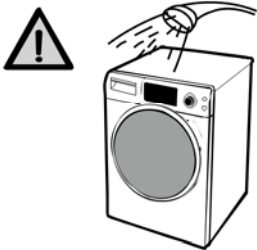
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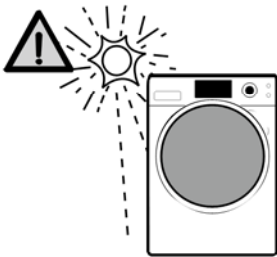
Notice



- Cut off the power first before maintaining and repairing the washing machine.
- It is for preventing from harms duet to electric leakage.



- Please do not sprinkle or spray water directly to any part of the washing machine during maintenance and repair.
- Otherwise, accidents like short circuit or electric shock may happen.



- Please do not place the washing machine in places where are damp or are exposed to wind, rain and the sun.
- It is for preventing from fire accidents due to electric shock or electric leakage.



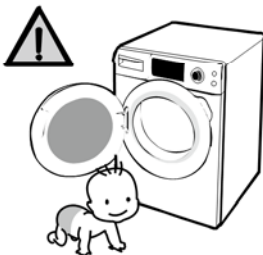
Explosion Or Fire

- It is strictly prohibited to place the clothes smeared with inflammables into the drum of washing machine.
- It is for preventing from possible explosion or fire accident.



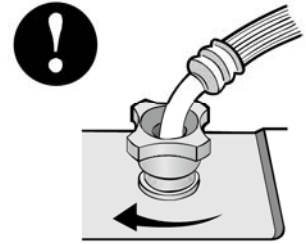
Mechanical Injury

- Do not open the door in a forced way.
- It is for preventing from possible damage.



Safety Tips For Children

- Please do not let the children to use the washing machine, and do not place rack, stools, etc. around the washing machine.
- The children may suffer personal injury due to they climbing the washing machine or crawling into the drum.



The nut connecting water inlet tube to the machine must be screwed up.



When the washing machine is unused, please be sure to turn off the faucet.



Please dismantle the door of machine before discarding and handling.



If the washing machine is damaged during transportation, please do not use it. Please call the “After-sales Service Personnel”.

CONTENTS

ITEM	WFMC (VC/RC/HC) 6010/ WFMC (VC/RC/HC) 6010S/T	
COLOR	WHITE/SILVER/ Titanium Grey	
ELECTRIC POWER	WASHING	300W
CONSUMTION	HEATER	1500W
REVOLUTION	WASH	55rpm
SPEED	SPIN	1000rpm
CYCLES	15	
WASH/RINSE TEMPERATURES	20-*/40/60/95°C/room temperature	
SPIN SPEEDS	0/600/800/1000rpm	
OPTIONS	Spin、Temp、Delay End、Start/Pause、Prewash、Child lock	
WATERCIRCULATION	0.1-1 MPa	
CONTROL TYPE	Electronic	
Washing Capacity	6Kg	
Dimension	595×458×845	
DELAY WASH	up to 12 hours	
DOOR LOCK TYPE	PTC	
WATER LEVEL	FWL Sensor control	
LAUNDRY LOAD SENSING	No incorporated	
ERROR DIAGNOSIS	Incorporated	
AUTO POWER OFF	No incorporated	

3. FEATURES & TECHNICAL EXPLANATION

3.1 FEATURES

■ Ultra Capacity



The larger drum enables not just higher head drop and stronger centrifugal force, but also less tangling and wrinkling of the laundry. Heavier loads, such as king size comforters, blankets, and curtains, can be washed.

■ Built-in Heater



Internal heater helps to maintain water temperature at its optimum level for selected cycles.

■ Child Lock

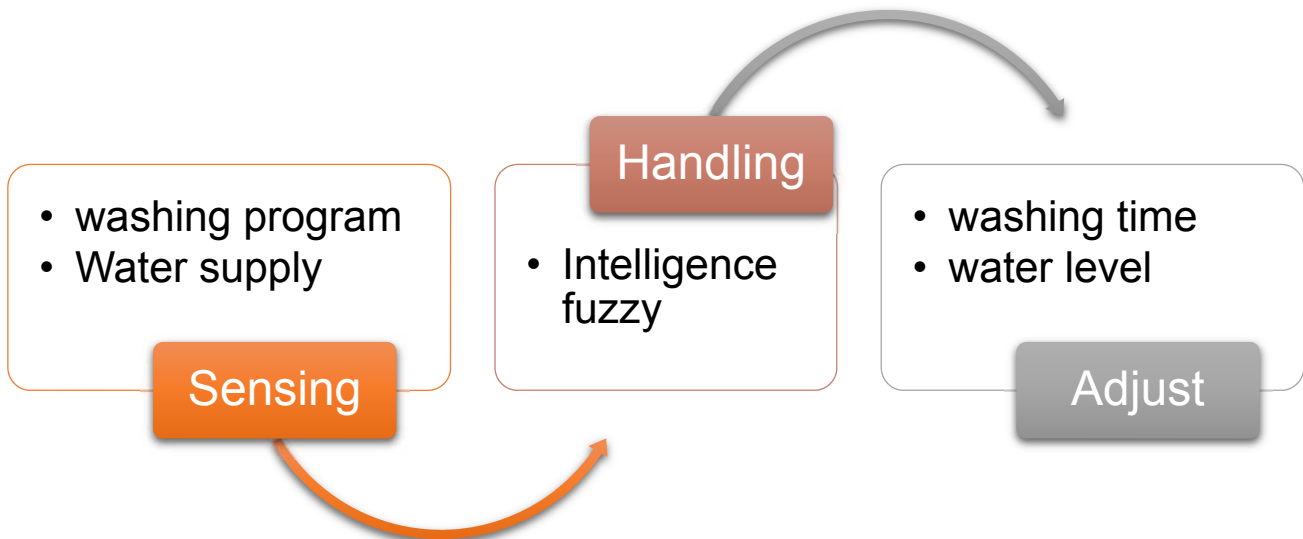


The Child lock prevents children from pressing any button to change the settings during operation.

3. FEATURES & TECHNICAL EXPLANATION

3.2 INTELLIGENT FUZZY CONTROL

In order to achieve the best washing effects, it is necessary to determine the optimum time and washing water level based on the water supply conditions.



3.3 POWER SUPPLY CONTROL

◆After the washing machine is energized, the PCB is under “Off mode”, and all buttons and knobs except for the “Off” position of the knob are disabled; all loads are in the state of ready-for-activating.

◆After turning the knob into “Off” position, the PCB will switch to “Ready mode” from “Off mode”, and conduct status inquiry for minutes, with values of parameters like water level, water temperature, air temperature, motor speed, door lock state, etc.

◆When the PCB runs a complete routine to end, “END” will flashed on LED. It will not stop until the knob is turned to “Off” position manually.

◆When the program finishes and displays “End”, the door will be unlocked, and the PCB will enter in “End mode”.

3. FEATURES & TECHNICAL EXPLANATION

◆In order to avoid the user to falsely triggering the “Off” position of the knob, 3 successive seconds are required for switching from “On mode” to “Off mode”, and only one click is required for switching from “Off mode” to “On mode”.

3.4 WATER LEVEL CONTROL

◆This module contains a FWL sensor for detecting the water level of tub.

◆During water inflowing, the PCB controls the inlet valve to function and execute the water inflow operation. When the water level reaches the “Washing water level”, the water inflow stops and the washing process begins. If the water level declines during washing, it will automatically activate the water inflow and replenishing program so as to reach the “Washing water level” again.

◆During water draining, the PCB controls the draining pump to continuously work and begin the water draining process. When the water of tub is discharged down to the “Spinning water level”, the Spinning process will begin.

3.5 DOOR LOCK CONTROL

◆ When the PCB enters in “Ready mode”, it will detect the state of door lock and execute operation accordingly. When the door is unlocked, no operation is done if the unlocking conditions are satisfied, otherwise, the door should be locked; when the door is locked, execute unlocking operation if the unlocking conditions are satisfied, otherwise, the door should be maintained locked.

◆After selecting the program and function, press the “Start/Pause” button, the PCB controls the door lock to execute locking operation, and the “Door lock” icon on display window is on.

◆After the program ends, the “Door lock” icon on display window is flickering when the unlocking conditions are satisfied, and the PCB controls the door lock to execute unlocking operation. When the “Door lock” icon on display window is

3. FEATURES & TECHNICAL EXPLANATION

off, the door is unlocked.

- ◆The program enters in “Pause mode” from “Run mode”, and the unlocking operation can be executed if conditions permit.
- ◆ In case of power outage during washing, the door will be unlocked 3 min later (the specific time depends on the different ambient temperature).
- ◆The door lock clicks when it executes the program of “lock/unlock”.
- ◆ Door unlocking conditions: the motor stops, the water temperature is below 50°C, and the water level is below the “Door-opening water level”.

3.6 LAUNDERING CONTROL

- ◆After selecting proper program and function the PCB enters in the “Ready mode”, press down “Start/Pause” button, and the PCB controls the door lock to lock, controls the inlet valve for water inflowing up to the “washing water level”, and then begins the laundering process.
- ◆The PCB controls the motor to execute intermittent operations in clockwise and counterclockwise directions at a constant frequency, driving the drum to rotate via belt sheave for purpose of laundering.
- ◆Motor speed and rotation/stop ratio under “Cotton” program:

Course	Water inflow	Pre-wash	Wash	Rinse
Motor speed	45rpm	45rpm	55rpm	55rpm
Rotation/Stop ratio	10:5	10:5	10:5	12:8

3.7 HEATING CONTROL

- ◆When the temperature set by the user is higher than the water temperature, the PCB will control the heater to function and run the heating process until the water temperature reaches the set temperature.
- ◆When the temperature set by the user is lower than the water temperature, no

3. FEATURES & TECHNICAL EXPLANATION

heating operation is required.

- ◆The heater is enabled and proceeds to function until 3 seconds pass by after the set temperature is reached.
- ◆When the water level is below the “Heating water level”, the heater should be forced to shut down, and then replenish water.

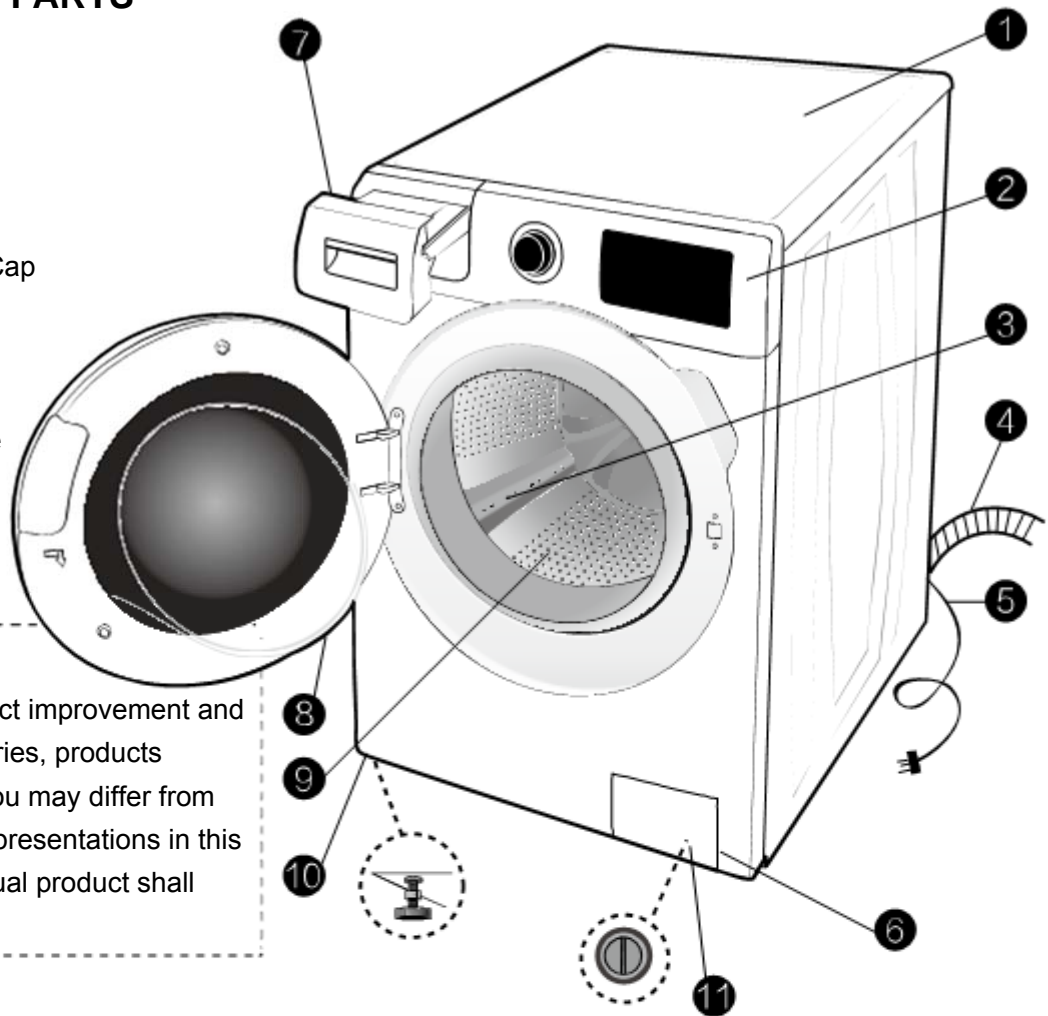
3.8 SPINNING CONTROL

- ◆During draining, the Spinning process will begin after the water of tub is discharged down to the “Spinning water level”.
- ◆ The PCB controls the motor to drive the drum to rotate in anticlockwise direction. Carry out distribution measurement at low speed (about 93rpm) first, and then measure the equilibrium value. After the equilibrium value is up to standard, the distribution measurement succeeds, and enter the stage of high-speed Spinning. If the distribution measurement fails as the equilibrium value is too big and does not meet the requirements, then it is necessary to continuously carry out distribution measurement operation.
- ◆ Spin speed limit: The spin speed shall neither exceed the maximum speed set by the program nor exceed the speed manually set via the “Spin” button.
- ◆ During the distribution measurement, time is not reckoned in the first 10 times, and if the distribution measurement still fails, then the time will decrease progressively and occupy the Spinning time until the latter is run out.
- ◆ During Spinning, if the clothes are not spinning at last as the distribution measurement fails all the time, then “Unb” will flash after the program ends, the display window is on all the time, and the alarm will give out buzzing sound.

4.PARTS IDENTIFICATION

MARKS OF PARTS

1. Top Cover
2. Control Panel
3. Lifter
4. Drain Hose
5. Power Plug
6. Filter Cover Cap
7. Dispenser
8. Door
9. Drum
10. 4 Adjustable Feet
11. Drain Pump Filter



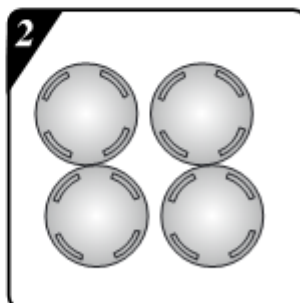
Notice

As for the product improvement and expansion in series, products purchased by you may differ from the graphical representations in this manual, the actual product shall prevail.

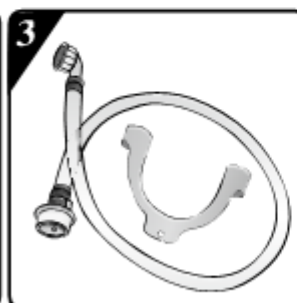
ACCESSORIES



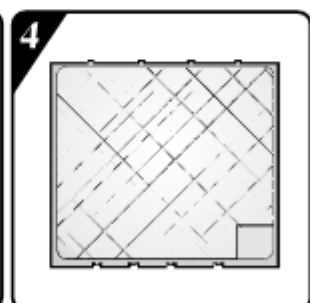
IFU ASM



4 Plastic Caps Of Transportation Bolt



Inlet Tube+ "U" Elbow Bracket



Noise Reduce Board

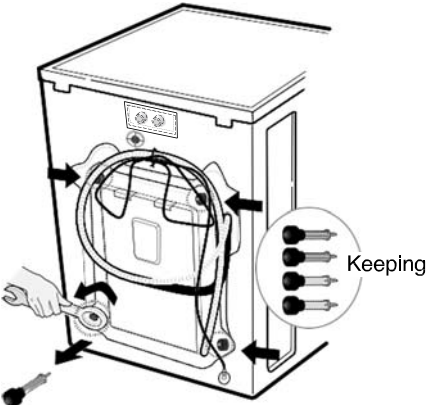
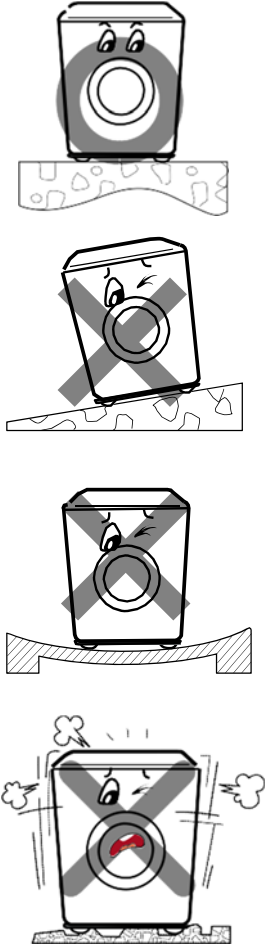
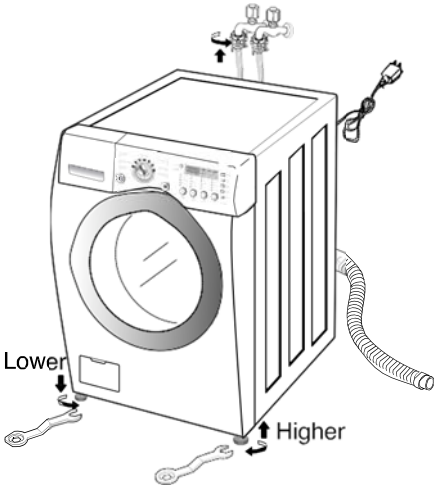
Notice

The appearance depends on different machine models. Some models are not equipped with "U" elbow bracket or noise reduce board but not affect the usage.

5. INSTALLATION AND TEST

1. Before servicing, ask the customer what the trouble is.
2. Check the setup (power supply is 220-240V AC, remove the transit bolts, level the washer....).
3. Check with the troubleshooting guide.
4. Plan your service method by referring to the disassembly instructions.
5. Service the unit.
6. After servicing, operate the appliance to see whether it functions correctly.

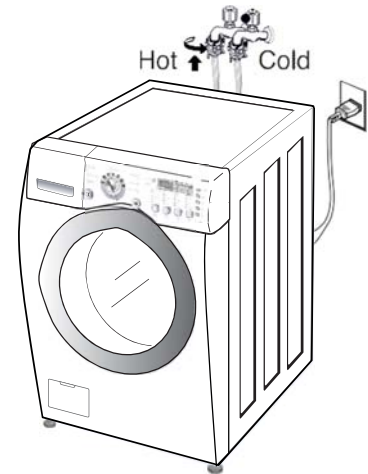
5.1 STANDARD INSTALLATION

REMOVE THE SHIPPING BOLTS	INSTALL THE APPLIANCE ON A FLAT AND FIRM	ADJUST THE LEVELING
<p>◆ Remove the 4 shipping bolts with the supplied wrench.</p> <p>※ Do first lower side to remove easily.</p> <p>◆ Keep the shipping bolts and spanner for future use.</p> <p>◆ Insert the 4 caps (provided) into the hole.</p> 		<p>◆ Turn the leveling feet to adjust the appliance.</p>  <p>◆ Turn clockwise to raise;</p> <p>◆ Turn counterclockwise to lower.</p>

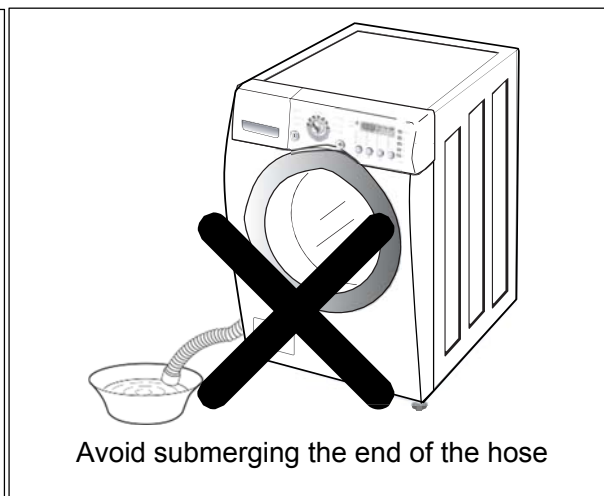
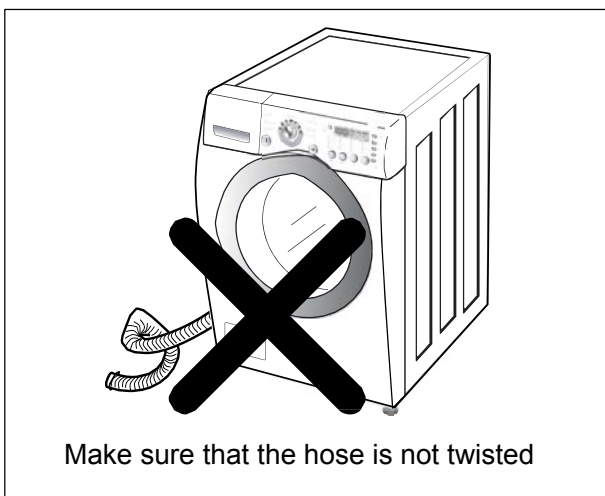
5. INSTALLATION AND TEST

5.2 CONNECT THE INLET HOSE

- ◆ Verify that the rubber washer is inside of the valve connector.
- ◆ Tighten the inlet hose s necurely to prevent leaks.

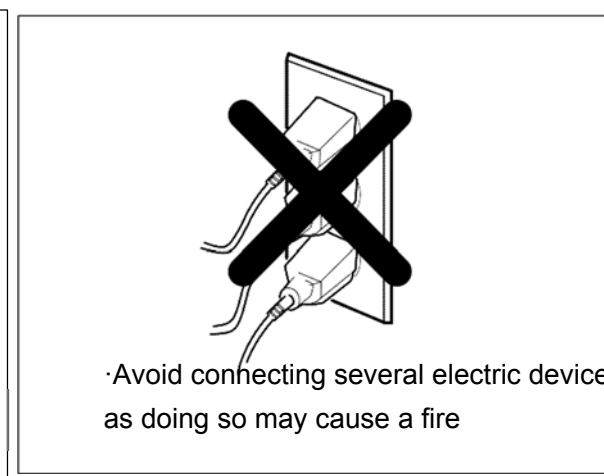
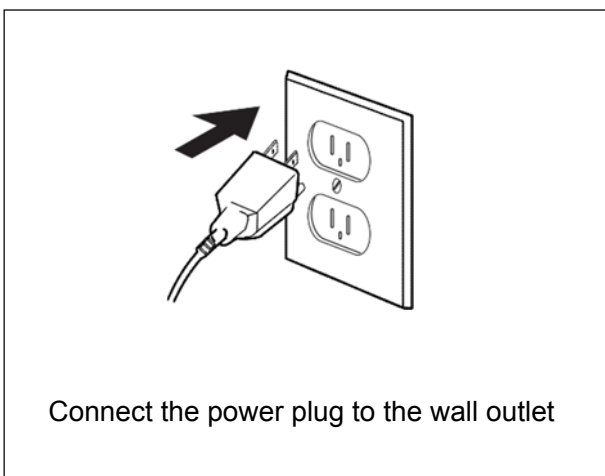


5.3 CONNECT THE DRAIN HOSE



※The end of the drain hose should be placed less than 49" from the floor

5.4 CONNECT POWER PLUG

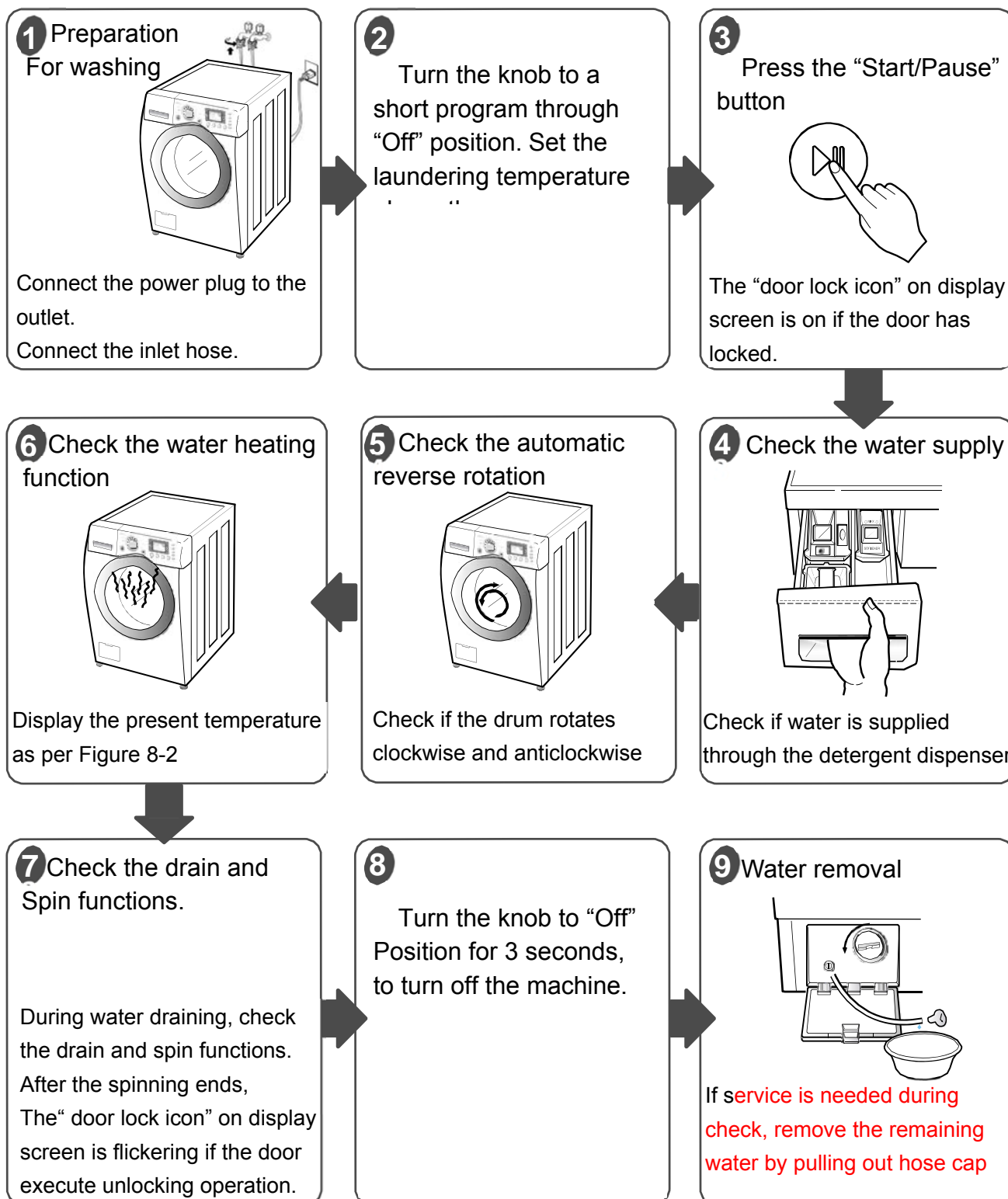


5.5 TEST OPERATION

5. INSTALLATION AND TEST

Carry out self-inspection on washing machine as per Figure 8-1 or carry out trial run as shown in figure below

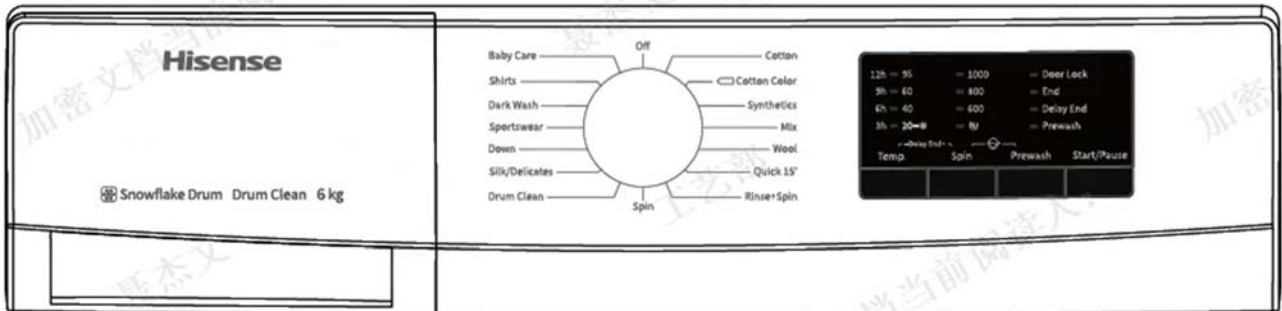
[CAUTION] Before carrying out inspection in this way, please turn on the special function mode as per Figure 8-2; after the inspection is finished, please turn off the special function mode, otherwise, it may lead to mal-operation of users and further affect the normal usage of washing machine.



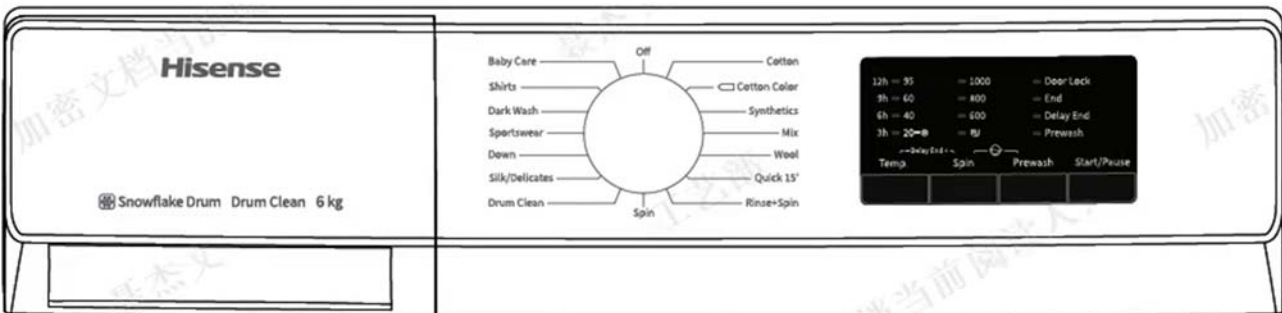
6. OPERATION

6.1 CONTROL PANEL

MC (RC):



VC (HC):



6.2 SELECTING THE PROGRAMME

Here are the available programs, additional functions and option settings.

Temperature can be selected separately for certain programs

6.OPERATION

Program	Max load (kg)	Detergents			Washing Function Selection				Reload in process (2)	Max. spin speed rpm
		Prewash 	Main wash 	Softener 	Temp.	Delay End	Prewash	Spin		
Baby Care -, 20-@, 40°C, 60°C, 95°C	3.0	*	Yes	*	*	*	*	*	*	1000
Shirts -, 20-@, 40°C, 60°C	3.0	—	Yes	*	*	*	—	*	*	800 ⁽¹⁾
Dark Wash -, 20-@, 40°C, 60°C	3.0	*	Yes	*	*	*	*	*	*	1000
Sportswear -, 20-@, 40°C	3.0	*	Yes	*	*	*	*	*	*	1000
Down -, 20-@, 40°C	3.0	—	Yes	*	*	*	—	*	*	600
Silk/Delicates -, 20-@, 40°C	2.0	—	Yes	*	*	*	—	*	*	600
Drum Clean 95°C	—	—	Yes	—	—	*	—	*	*	600
Cotton -, 20-@, 40°C, 60°C, 95°C	6.0	*	Yes	*	*	*	*	*	*	1000
 Cotton Color -, 20-@, 40°C, 60°C	6.0	*	Yes	*	*	*	—	*	*	1000
Synthetics -, 20-@, 40°C, 60°C	3.0	*	Yes	*	*	*	*	*	*	1000
Mix -, 20-@, 40°C	3.0	*	Yes	*	*	*	*	*	*	1000
Wool -, 20-@, 40°C	2.0	—	Yes	*	*	*	—	*	*	600
Quick 15' -, 20-@, 40°C	1.0	—	Yes	*	*	*	—	*	*	800
Rinse+Spin —	6.0	—	—	*	—	*	—	*	*	1000
Spin —	6.0	—	—	—	—	*	—	*	*	1000

* : Optional Yes: Dosing required — : cannot be selected -:Temperature of unheated water

(1) To care clothes, spin speed shall be limited to 800 rpm.

(2) "Reload in process" can be selected if Prewash is selected.

(3) WPM0010/WPMC0010S/WPMC0010T/WPVC0010/WPVC0010S/WPVC0010T/WPNC0010/WPNC0010S/WPNC0010T/WPHC0010/WPHC0010S/WPHC0010T

Energy consumption 165 kWh per year, based on 220 standard washing cycles for cotton color programmes at 60°C and 40°C at full and partial load, and the consumption of the low-power modes. Actual energy consumption will depend on how the appliance is used.

Water consumption 8800 litres per year, based on 220 standard washing cycles for cotton color programmes at 60°C and 40°C at full and partial load. Actual water consumption will depend on how the appliance is used.

6.OPERATION

You may select the model in the following procedure:

1) Power on and turn the knob beyond “OFF” position to start the appliance. Select the Spin program and press the Function button and Temperature button twice in sequence in five seconds to enter model selection mode.

2) The digitron will show the model parameters. Press the Speed button to select the model. Press the Temperature button to save the parameters and exit the model selection mode.

3) For the initial selection of model, simply press the Speed button to select the model. For subsequent selection, you must press and hold the Speed button for three seconds and select the model after the buzzer beeps.

4) After the model is changed, you need to power on the appliance again to take effect the change.

5) Model parameters(needless):

WFMC6010/WFMC6010S/WFMC6010T;

WFVC6010/WFVC6010S/WFVC6010T;

WFRC6010/WFRC6010S/WFRC6010T;

WFHC6010/WFHC6010S/WFHC6010T.

6.OPERATION

6.3 COMMON FUNCTIONS



Delay Function

This function will allow to select the time your wash program will start.

- ◆ Select Delay after you have selected the program and other options.
- ◆ Press the “Temp. + Spin” button once and the delay time will increase by 3 hours. The delay time can be programmed for between 3hours to 12 hours. To cancel the selection release the button and then press them again.
- ◆ The delay time must be longer than the wash program length as the delay time is the time the program will finish. For example: if the selected program time is 02:28, the delay time selected must be between 03:00 and 12:00.
- ◆ After the delay time has been selected press the “Start /Pause” button and the display will start to count down. When the delay time is down to the program length time, the Delay icon will go out and the program will start.
- ◆ To cancel the delay time, after the “Start /Pause” button has been pressed, but before the program has started, it will be necessary to turn the washing machine off.

Child lock

6.OPERATION

- ◆ To strengthen the safety of children, this machine is equipped with Child Lock function.
- ◆ When the program starts, press “Spin + Prewash” button for 2 seconds, the "prewash" and "  " indicator light flashing four times, then Child Lock is set up. After 2 seconds, the program will keep on running. Press “Spin + Prewash” button for 2 seconds, the "prewash" and "  " indicator light flashing four times, the Child Lock will be released.
- ◆ When the Child Lock is set, all function buttons except “Off” will be shielded. Once any function except "Off" is chosen, the machine will beep. After the program ends, Child lock function will release automatically. Any error alarm will release the Child Lock function. Turn off and on the machine manually will reset the machine.
- ◆ Child Lock function cannot be set when the machine is in standby state.

Door Lock Icon

- ◆ After the program starts, the Door Lock icon will flash and the door will be locked.
- ◆ The door is always locked when a program is running. It is not possible to open the door while the icon is flashing and trying to forcibly open the door will cause damage to the appliance.
- ◆ If you wish to open the door due to an emergency you must turn off the washing machine. It is important to check

6.OPERATION

the level of the water inside the drum, and the water temperature, before trying to open the door.

◆If the door will not open after 2 – 3 minutes you can select the spin program to drain the water from the drum.

Lock off the appliance and open the door.

◆Safety Notice: If the program is interrupted during the wash the temperature of the items inside, and the drum, may be very high. To avoid any scalding, or burns, care must be taken before removing any items from the drum.

Adding Clothes After the Program Has Started

◆If you need to add other items of clothing after the program has started you must check the level of the water inside the drum. If it safe to open the door after pressing the Start / Pause button.

◆The door lock indicator will go out and the door can be opened after 2 – 3 minutes.

◆If the door lock does not stop flashing, this indicates that the temperature inside the drum is above 50°C, or it is too late in the program to add further items of clothing.

6.4 ADDITIONAL FUNCTIONS

Prewash 

◆Select the function to conduct pre-wash so as to enhance washing effects and better remove stains. This function

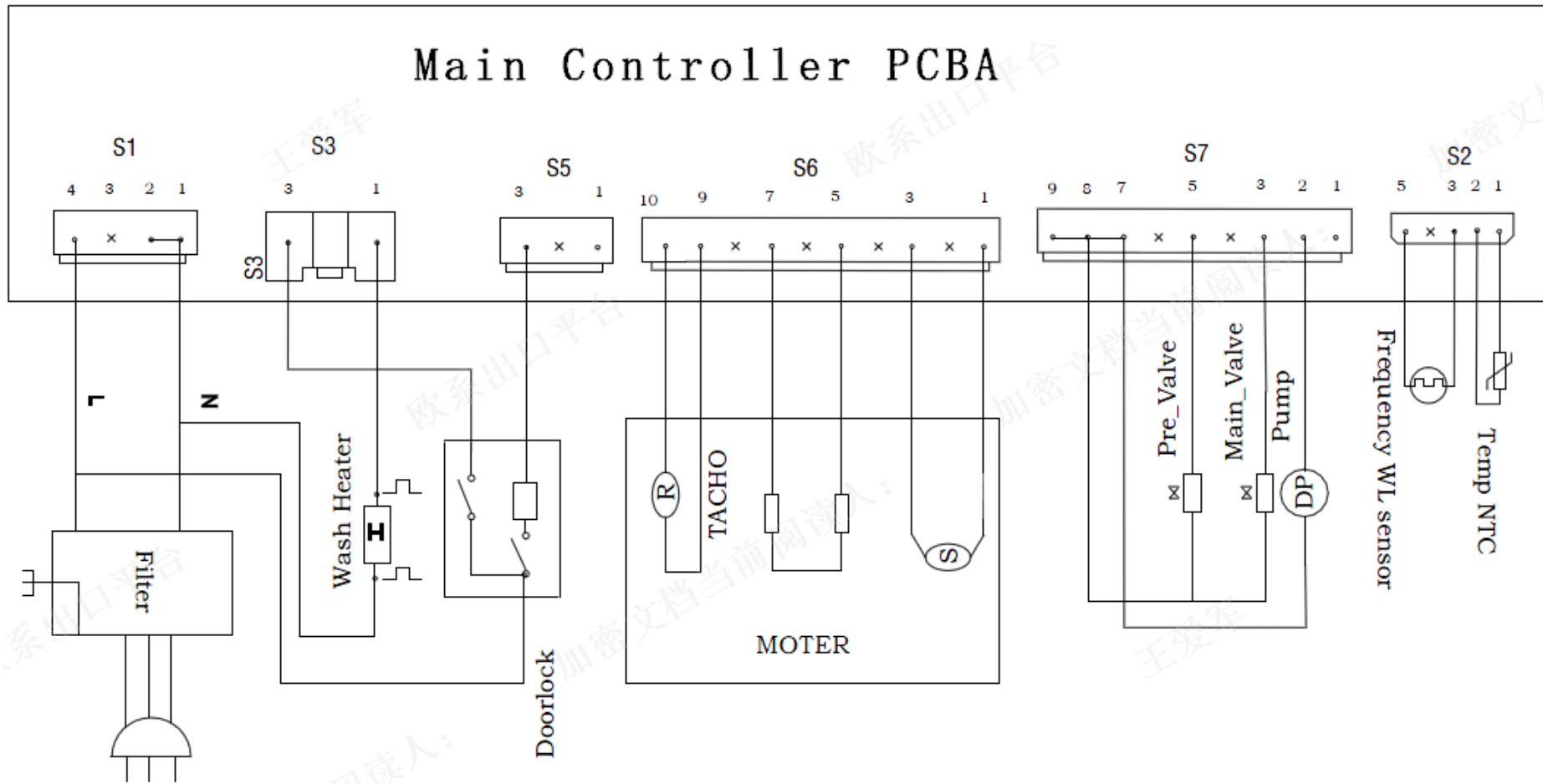
6.OPERATION

is suitable for heavy dirt clothes.

◆Before inflowing, laundry detergent/ washing powder can be added to pre-wash box, and washing powder must be added to main wash box.

7.WIRING DIAGRAM/PROGRAM CHART

7.1 WIRING DIAGRAM



7.WIRING DIAGRAM/PROGRAM CHART



7.WIRING DIAGRAM/PROGRAM CHART

7.2 PROGRAM CHART

各程序温度选择范围

	温度范围	默认温度
Baby Care	0-90°C	60°C
Shirts	0-60°C	40°C
Dark Wash	0-60°C	20°C
Sportswear	0-40°C	40°C
Down	0-40°C	40°C
Silk/Delicate	0-40°C	40°C
Drum Clean	95°C	95°C
Spin	/	/
Rinse+Spin	/	/
Quick 15'	0-40°C	20°C
Wool	0-40°C	40°C
Mix	0-40°C	40°C
Synthetics	0-60°C	40°C
Cotton Color	0-60°C	20°C
Cotton	0-95°C	40°C



8.TEST MODE


8.1 SELF-INSPECTION MODE

Turn the knob to “Spin” through “Off” to start up the machine and select the “Spin” program, press the “Temp. + Prewash” button and then press the “Spin” button once within 5 seconds, the machine will enter into the “Self-inspection mode” 1s later.

8.1.1 The program enters in C0. All of the icons are off, and meanwhile the door locking operation is executed. If the door is successfully locked, the “Door lock” icon is on, and if the door is not locked within 10s, an alarm code of F13 will display;

8.1.2 If the door is successfully locked, the program enters in C8, and it is time for the effectiveness detection of buttons and the knob. Press the “Temp” button

to light up all the icons in picture of . Press the “Spin” button to light up all the icons in picture of .

Press the “Prewash” button to light up all the icons in picture of . Turn the knob one full turn. After all of the operations are completed, the display state will maintain for 1s, and the program will enter in C1. If operations of the said steps are not completed, an alarm code of F25 will display;

8.1.3 The program enters in C1. Turn on the Pre_valve to supply water for 2 seconds, then turn on the Main_valve to supply water for 2 seconds. Keep on adding water to the heating water level frequency, then the program will enter in C2.

8.1.4 The program enters in C2. Turn on the Main_valve and Pre_valve together

8.TEST MODE

to supply water for 7 seconds to the heating water level. Heating operation will begin when the water level is detected up to the “heating water level”, and will end after the water temperature reaches 60° or the heating time reaches 15 seconds; the heater will not be turned on if the water level is detected below the “Heating water level”, and wait for 15 seconds. The drum starts to tumble during the heating process at a speed of 55rpm, 5 seconds in clockwise direction, stop for 5 seconds, and 5 seconds in anti-clockwise direction. Turn on the Main_valve and Pre_valve together to supply water for 5 seconds. After all of the above processes are completed, the program will enter in C3;

8.1.5 The program enters in C3. The pump starts to drain away water to the “Empty-drum water level”. The water shall be drained within a limited time of 6min. If the water is discharged down to the “Empty-drum water level” successfully, the program will enter in C4, and if the water is not discharged down to the “Empty-drum water level” within 6min, then an alarm code of F03 will display;

8.1.6 The program enters in C4. The pump continues to drain away water, while the drum tumbles at a speed of 95rpm for 10 seconds. Then the drum starts to tumble at an accelerating speed of 60 rpm/s. The target speed is the maximum speed (1000rpm) , and the whole process consumes 200 seconds in total. After all of the above processes are completed, the drum will stall. If there is not any key input for 30 seconds, it will exit the “Self-inspection mode”.

8.2 SPECIAL FUNCTION MODE

1) Turn the knob to “Spin” through “Off” to start up the machine, select the “Spin”

8.TEST MODE

program, press the “Temp. + Prewash” button and then press the “Start/Pause” button once within 5 seconds, the machine will enter into the “Special function mode” afterwards.

CAUTION: After the inspection is finished, please turn off the special function mode (Test mode、Cycle mode), otherwise, it may lead to mal-operation of users and further affect the normal usage of washing machine.

8.2.1 The display window displays Hisense version No.;

8.2.2 Press the “Temp.” button to select parameters (the parameter adjustment screen will circularly display: equilibrium value 1-equilibrium value 2-equilibrium value 3-equilibrium value 4-test function). Press the “Spin” button to turn on or turn off the “Test mode”;

8.2.3 Press the “Start/Pause” button to exit the “Developer mode”, and the program enters into the “Special function mode”. If there is not any key input for 30 seconds, the program will exit the “Special function mode”;

8.2.4 Test mode

When the “Test mode” is turned on and the program is running,

- ◆ Press the “Temp.” button to turn on/off the acceleration function;
- ◆ Press the “Spin” button to turn on/off the temperature display function;
- ◆ Continuously press the “Prewash” button to successively display the current “equilibrium value, the current speed, the current water-level frequency, the heater status (H0: No heating, H1: Heating), inertia, loop”.

9.TROUBLE SHOOTING

9.1 SAFETY CAUTION

1. There's built-in 220-240V AC and DC power in output terminal of PCB in common. Be careful electric shock when disconnecting parts while trouble shooting. (wear electrostatic discharge gloves when working.)
2. After cutting off the power when changing PCB, disconnect or assemble.
3. Be careful static when handling PCB, and use electro static discharge plastic pack when delivering or keeping it.

9.2 ERROR MODE SUMMERY

In case of any abnormal conditions are detected during running, turn off all loads except for door lock, and then the buzzer sounds to give an alarm.

	ERROR	SYMPTOM	CAUSE																		
1	WATER INLET ERROR	<p>F01</p> <table border="1"> <tr> <td>On</td> <td>Flash</td> </tr> <tr> <td>●95</td> <td>○1000</td> </tr> <tr> <td>●80</td> <td>○800</td> </tr> <tr> <td>●40</td> <td>○600</td> </tr> <tr> <td>●20</td> <td>○No Spin</td> </tr> <tr> <td></td> <td>○Door Lock</td> </tr> <tr> <td></td> <td>○End</td> </tr> <tr> <td></td> <td>○Delay End</td> </tr> <tr> <td></td> <td>○Prewash</td> </tr> </table>	On	Flash	●95	○1000	●80	○800	●40	○600	●20	○No Spin		○Door Lock		○End		○Delay End		○Prewash	<p>◆ Cause: 1. Water intake for 3 min fails to reach the set water level of empty drum; 2. Water intake for 15 min fails to reach the set washing water level.</p>
On	Flash																				
●95	○1000																				
●80	○800																				
●40	○600																				
●20	○No Spin																				
	○Door Lock																				
	○End																				
	○Delay End																				
	○Prewash																				
2	DRAIN ERROR	<p>F03</p> <table border="1"> <tr> <td>On</td> <td>Flash</td> </tr> <tr> <td>●95</td> <td>○1000</td> </tr> <tr> <td>●80</td> <td>○800</td> </tr> <tr> <td>●40</td> <td>○600</td> </tr> <tr> <td>●20</td> <td>○No Spin</td> </tr> <tr> <td></td> <td>○Door Lock</td> </tr> <tr> <td></td> <td>○End</td> </tr> <tr> <td></td> <td>○Delay End</td> </tr> <tr> <td></td> <td>○Prewash</td> </tr> </table>	On	Flash	●95	○1000	●80	○800	●40	○600	●20	○No Spin		○Door Lock		○End		○Delay End		○Prewash	<p>Cause: the drainage within 9 min fails to reach the water level of empty drum.</p>
On	Flash																				
●95	○1000																				
●80	○800																				
●40	○600																				
●20	○No Spin																				
	○Door Lock																				
	○End																				
	○Delay End																				
	○Prewash																				
3	OVERFLOW ERROR	<p>F24</p> <table border="1"> <tr> <td>On</td> <td>Flash</td> </tr> <tr> <td>●95</td> <td>○1000</td> </tr> <tr> <td>●80</td> <td>○800</td> </tr> <tr> <td>●40</td> <td>○600</td> </tr> <tr> <td>●20</td> <td>○No Spin</td> </tr> <tr> <td></td> <td>○Door Lock</td> </tr> <tr> <td></td> <td>○End</td> </tr> <tr> <td></td> <td>○Delay End</td> </tr> <tr> <td></td> <td>○Prewash</td> </tr> </table>	On	Flash	●95	○1000	●80	○800	●40	○600	●20	○No Spin		○Door Lock		○End		○Delay End		○Prewash	<p>Cause: The water level is detected to reach the overflow level for continuous 3s. Note: no diagnosis will be made when the rotation speed is > 70rpm. Treatment: While giving an alarm, the drain valve will drain to the set water level of the empty drum, and then press for 30s on and 30s off for temporal action detection.</p> <p>Release: press the start and stop keys to release and resume the washing process.</p>
On	Flash																				
●95	○1000																				
●80	○800																				
●40	○600																				
●20	○No Spin																				
	○Door Lock																				
	○End																				
	○Delay End																				
	○Prewash																				

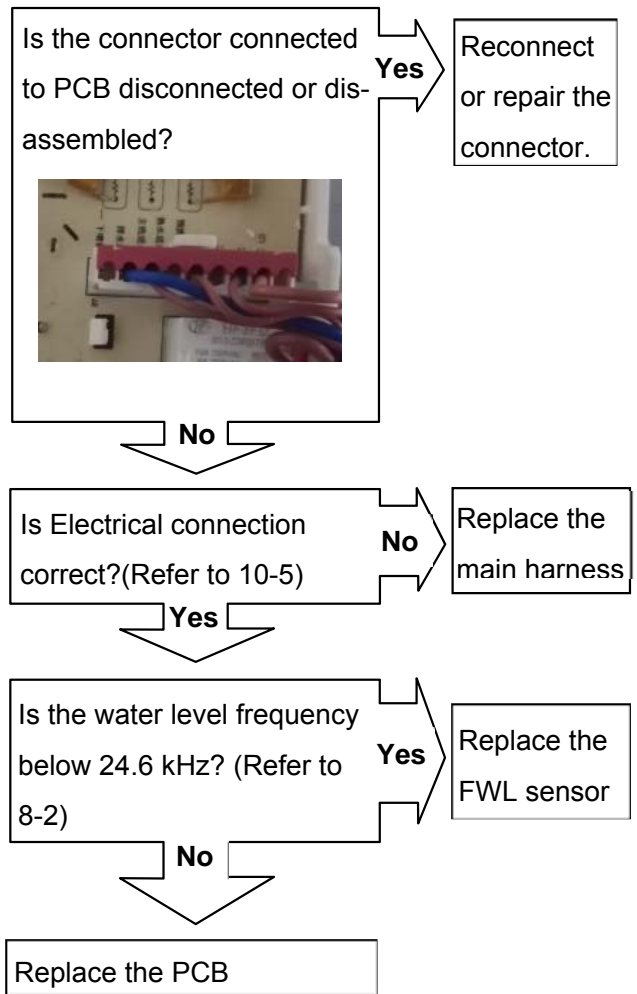
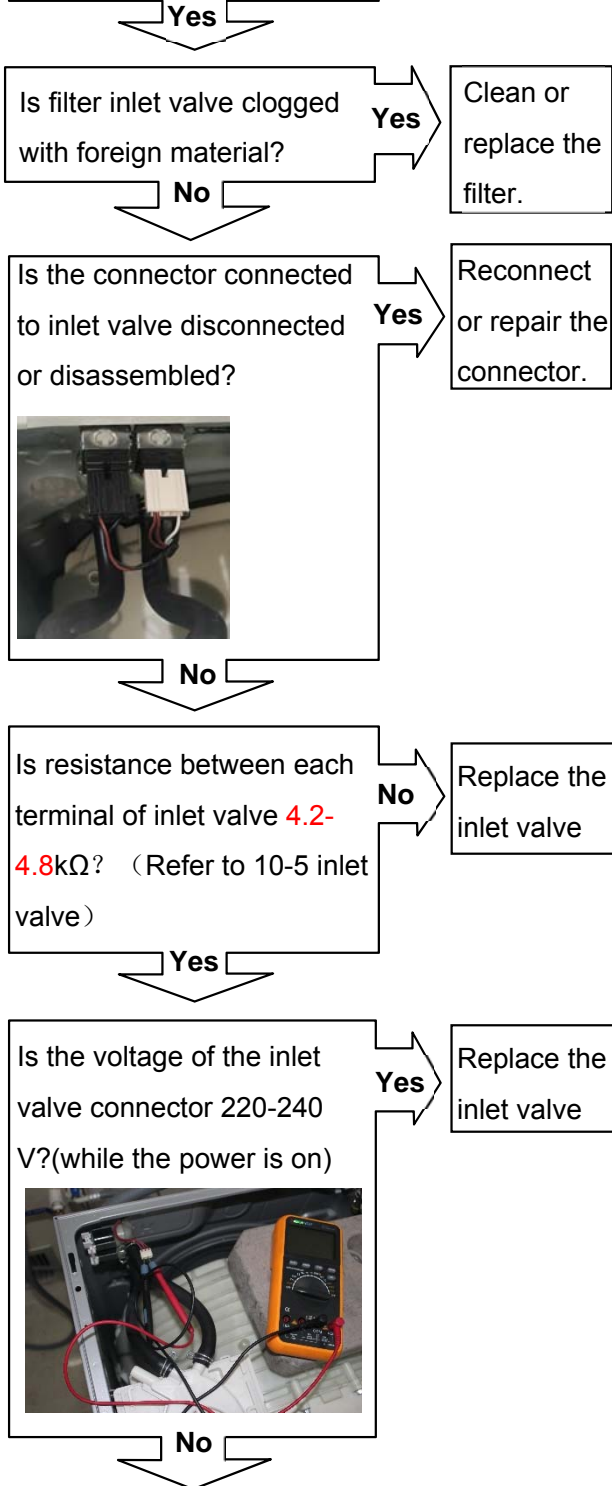
9.TROUBLE SHOOTING

4	FWLSENSOR ERROR	<table border="1"> <thead> <tr> <th colspan="3">F23</th> </tr> <tr> <th>长亮</th> <th>闪烁</th> <th>闪烁</th> </tr> <tr> <th>温度(标准)</th> <th>转速(高位)</th> <th>指示(低位)</th> </tr> </thead> <tbody> <tr> <td>●25</td> <td>○1000</td> <td>○Door Lock</td> </tr> <tr> <td>●20</td> <td>○300</td> <td>○End</td> </tr> <tr> <td>●10</td> <td>●500</td> <td>●Delay End</td> </tr> <tr> <td>●20</td> <td>○No Spin</td> <td>●Prewash</td> </tr> </tbody> </table>	F23			长亮	闪烁	闪烁	温度(标准)	转速(高位)	指示(低位)	●25	○1000	○Door Lock	●20	○300	○End	●10	●500	●Delay End	●20	○No Spin	●Prewash	<p>◆The FWL sensor is out of order.</p> <p>◆When water level frequency maintain condition of below 10 kHz and over 30 kHz.</p>
F23																								
长亮	闪烁	闪烁																						
温度(标准)	转速(高位)	指示(低位)																						
●25	○1000	○Door Lock																						
●20	○300	○End																						
●10	●500	●Delay End																						
●20	○No Spin	●Prewash																						
5	DOOR LOCK ERROR	<table border="1"> <thead> <tr> <th colspan="3">F13</th> </tr> <tr> <th>长亮</th> <th>闪烁</th> <th>闪烁</th> </tr> </thead> <tbody> <tr> <td>●25</td> <td>○1000</td> <td>○Door Lock</td> </tr> <tr> <td>●20</td> <td>○300</td> <td>○End</td> </tr> <tr> <td>●10</td> <td>○600</td> <td>●Delay End</td> </tr> <tr> <td>●20</td> <td>●No Spin</td> <td>●Prewash</td> </tr> </tbody> </table>	F13			长亮	闪烁	闪烁	●25	○1000	○Door Lock	●20	○300	○End	●10	○600	●Delay End	●20	●No Spin	●Prewash	<p>◆ Door not all the way closed.</p> <p>◆ Loose electrical connections at Door lock and PCB.</p>			
F13																								
长亮	闪烁	闪烁																						
●25	○1000	○Door Lock																						
●20	○300	○End																						
●10	○600	●Delay End																						
●20	●No Spin	●Prewash																						
6	HEATING ERROR	<table border="1"> <thead> <tr> <th colspan="3">F04</th> </tr> <tr> <th>长亮</th> <th>闪烁</th> <th>闪烁</th> </tr> </thead> <tbody> <tr> <td>●25</td> <td>○1000</td> <td>○Door Lock</td> </tr> <tr> <td>●20</td> <td>○300</td> <td>○End</td> </tr> <tr> <td>●10</td> <td>○600</td> <td>○Delay End</td> </tr> <tr> <td>●20</td> <td>○No Spin</td> <td>○Prewash</td> </tr> </tbody> </table>	F04			长亮	闪烁	闪烁	●25	○1000	○Door Lock	●20	○300	○End	●10	○600	○Delay End	●20	○No Spin	○Prewash	<p>◆The heater is out of order.</p> <p>※ Give an alarm after the washing course ends</p>			
F04																								
长亮	闪烁	闪烁																						
●25	○1000	○Door Lock																						
●20	○300	○End																						
●10	○600	○Delay End																						
●20	○No Spin	○Prewash																						
7	NO MOTOR SPEED FEEDBACK ERROR	<table border="1"> <thead> <tr> <th colspan="3">F06</th> </tr> <tr> <th>长亮</th> <th>闪烁</th> <th>闪烁</th> </tr> </thead> <tbody> <tr> <td>●25</td> <td>○1000</td> <td>○Door Lock</td> </tr> <tr> <td>●20</td> <td>○300</td> <td>○End</td> </tr> <tr> <td>●10</td> <td>○600</td> <td>●Delay End</td> </tr> <tr> <td>●20</td> <td>○No Spin</td> <td>○Prewash</td> </tr> </tbody> </table>	F06			长亮	闪烁	闪烁	●25	○1000	○Door Lock	●20	○300	○End	●10	○600	●Delay End	●20	○No Spin	○Prewash	<p>◆ The rotation speed is not set as 0, but no rotation speed is detected within 3s or the rotation speed is below 20rpm, 5 attempts</p>			
F06																								
长亮	闪烁	闪烁																						
●25	○1000	○Door Lock																						
●20	○300	○End																						
●10	○600	●Delay End																						
●20	○No Spin	○Prewash																						
8	TEMPERATURE SENSOR ERROR	<table border="1"> <thead> <tr> <th colspan="3">F05</th> </tr> <tr> <th>长亮</th> <th>闪烁</th> <th>闪烁</th> </tr> </thead> <tbody> <tr> <td>●25</td> <td>○1000</td> <td>○Door Lock</td> </tr> <tr> <td>●20</td> <td>○300</td> <td>○End</td> </tr> <tr> <td>●10</td> <td>○600</td> <td>○Delay End</td> </tr> <tr> <td>●20</td> <td>○No Spin</td> <td>○Prewash</td> </tr> </tbody> </table>	F05			长亮	闪烁	闪烁	●25	○1000	○Door Lock	●20	○300	○End	●10	○600	○Delay End	●20	○No Spin	○Prewash	<p>◆Detect the AD value of water temperature sensor abnormal in successive 2 seconds (AD≤5 或 ≥250)</p>			
F05																								
长亮	闪烁	闪烁																						
●25	○1000	○Door Lock																						
●20	○300	○End																						
●10	○600	○Delay End																						
●20	○No Spin	○Prewash																						
9	MOTOR SCR SHORT CIRCUIT ERROR	<table border="1"> <thead> <tr> <th colspan="3">F07</th> </tr> <tr> <th>长亮</th> <th>闪烁</th> <th>闪烁</th> </tr> </thead> <tbody> <tr> <td>●25</td> <td>○1000</td> <td>○Door Lock</td> </tr> <tr> <td>●20</td> <td>○300</td> <td>○End</td> </tr> <tr> <td>●10</td> <td>○600</td> <td>●Delay End</td> </tr> <tr> <td>●20</td> <td>○No Spin</td> <td>○Prewash</td> </tr> </tbody> </table>	F07			长亮	闪烁	闪烁	●25	○1000	○Door Lock	●20	○300	○End	●10	○600	●Delay End	●20	○No Spin	○Prewash	<p>◆The rotation speed is not set as 0, but the measured rotation speed>set rotation speed+80, and last for 3 seconds;</p> <p>◆The rotation speed is set as 0, but the rotation speed rises rather than declines, exceeding 10 turns within 3 seconds;</p>			
F07																								
长亮	闪烁	闪烁																						
●25	○1000	○Door Lock																						
●20	○300	○End																						
●10	○600	●Delay End																						
●20	○No Spin	○Prewash																						

9.TROUBLE SHOOTING

9.3TROUBLESHOOTING WITH ERROR

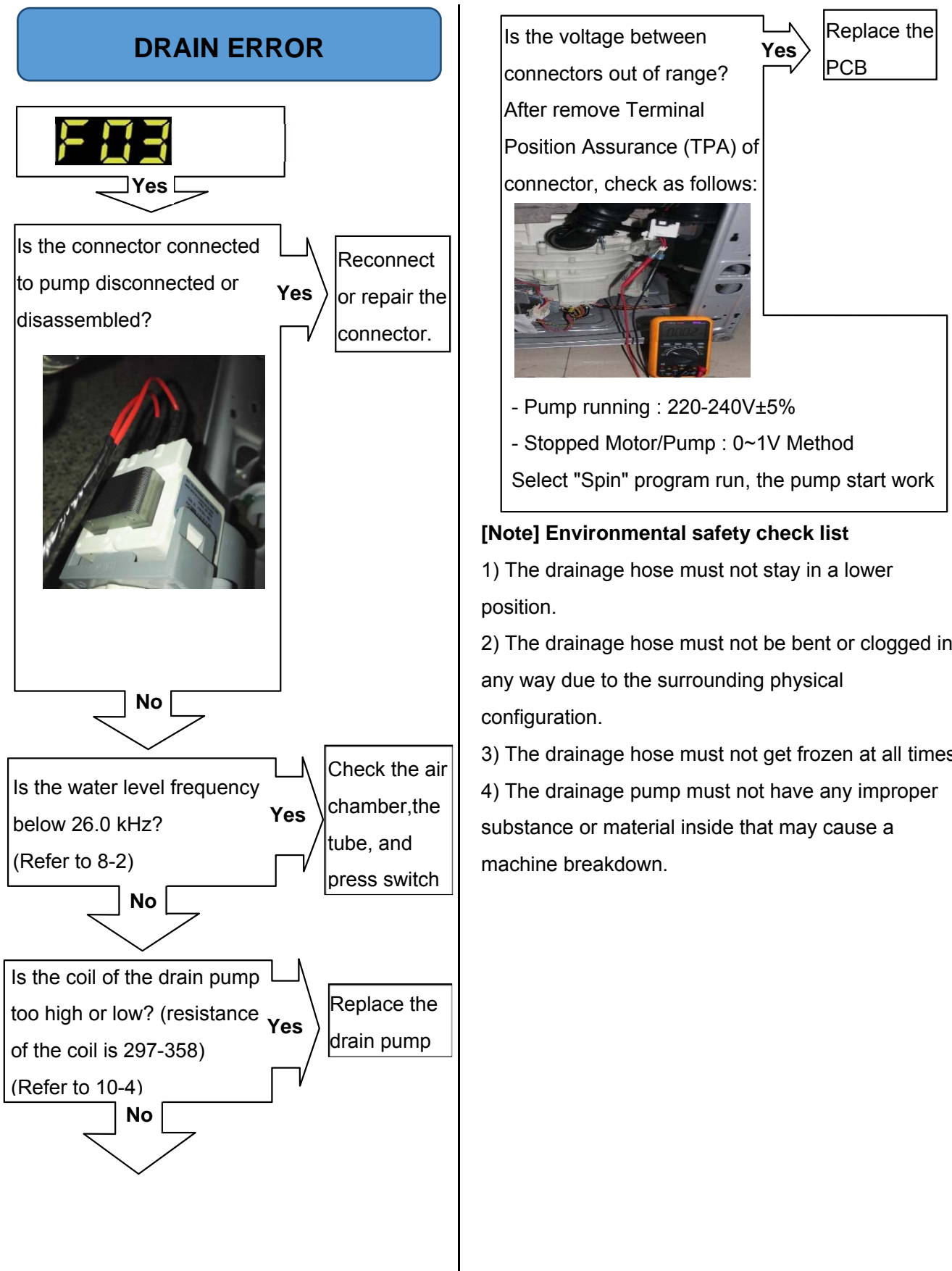
WATER INLET ERROR



[Note] Environmental safety check list

- 1) No water tap leakage
- 2) No water tap freeze
- 3) No entanglement of water supply hose
- 4) No water shortage
- 5) No shrinkage on water supply hose due to a possible misuse of hot and cold water
- 6) No water supply hose leakage

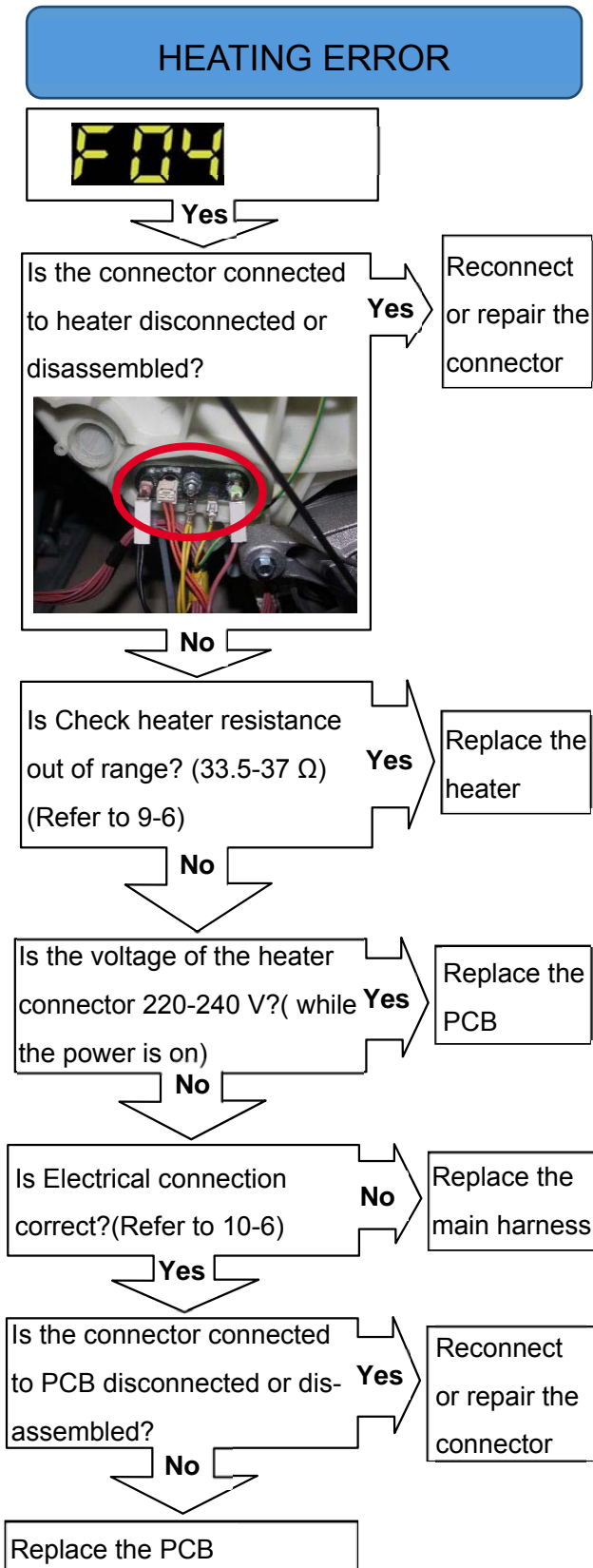
9.TROUBLE SHOOTING



[Note] Environmental safety check list

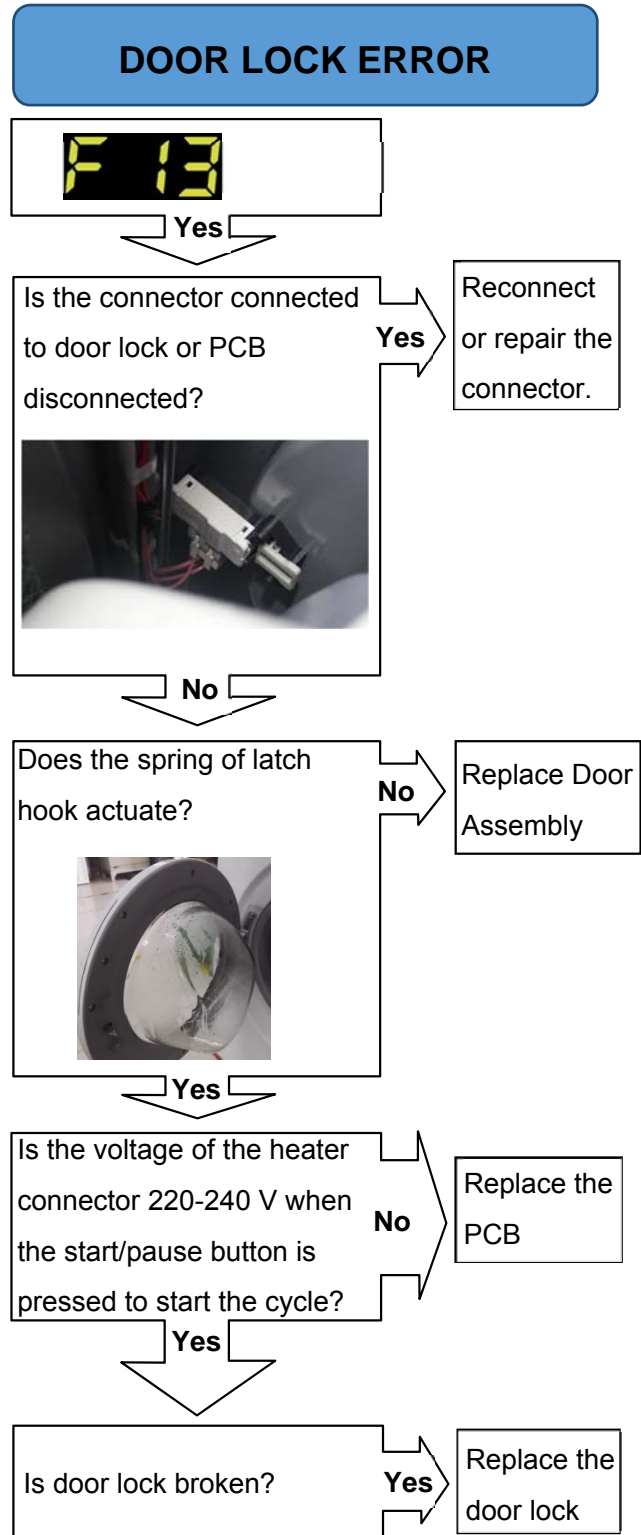
- 1) The drainage hose must not stay in a lower position.
- 2) The drainage hose must not be bent or clogged in any way due to the surrounding physical configuration.
- 3) The drainage hose must not get frozen at all times.
- 4) The drainage pump must not have any improper substance or material inside that may cause a machine breakdown.

9.TROUBLE SHOOTING



[Note] Environmental safety check list

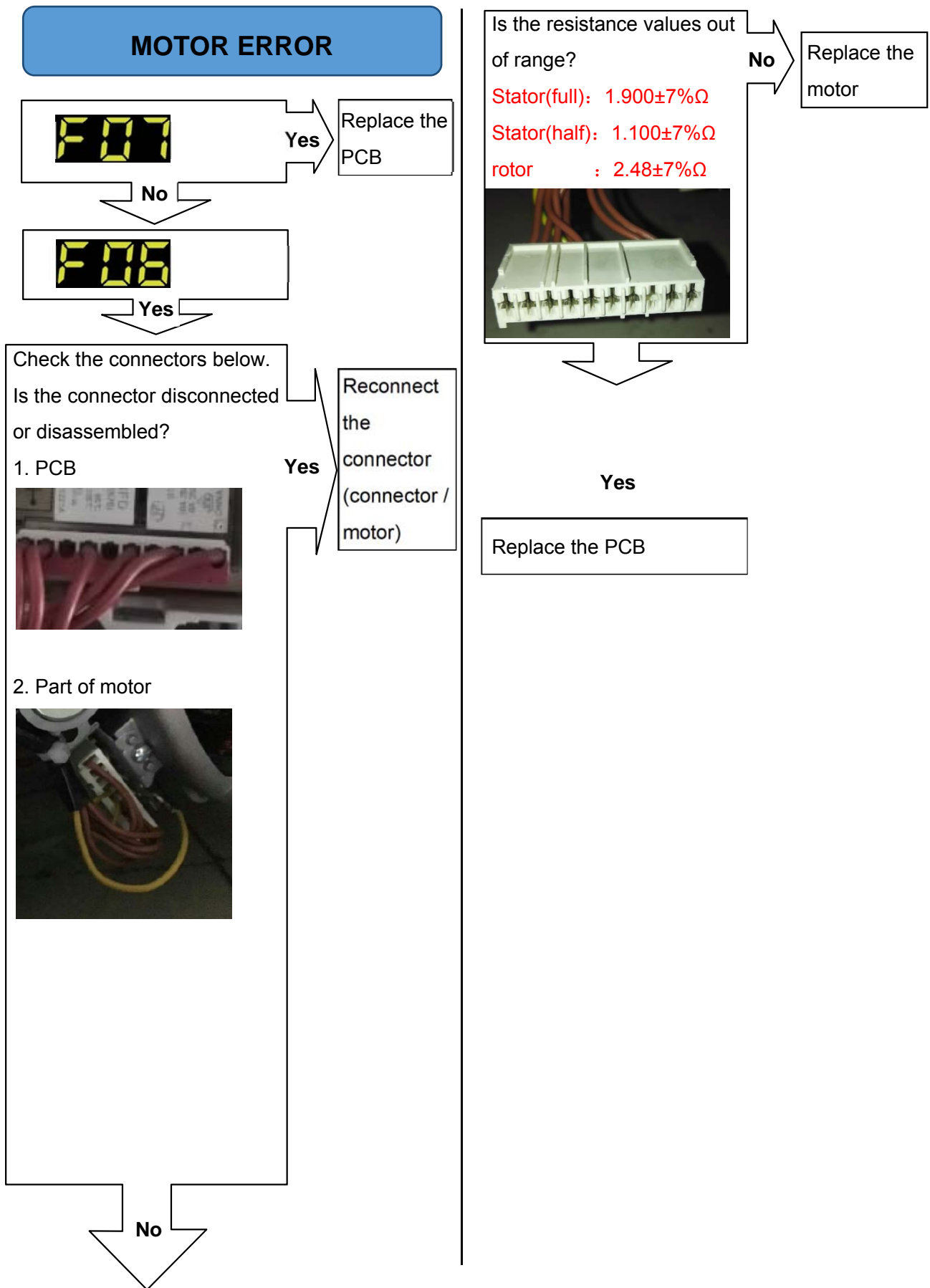
Chances that the cause occurs from the main controller are very little. Sensing part of the circuit (tE) consists of only resistors and capacitors.



[Note] Environmental safety check list

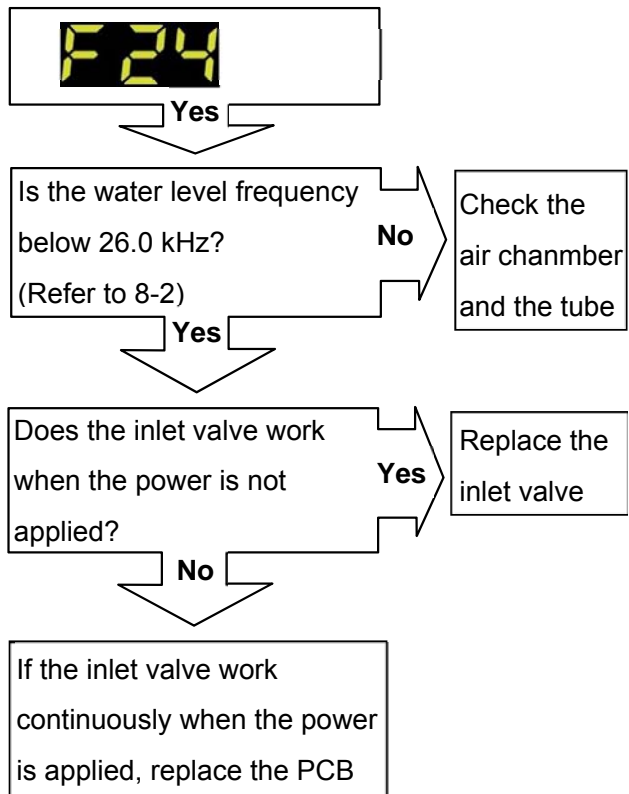
- 1) The machine must operate with all the doors completely closed and locked.
- 2) The washing area must operate with a water temperature not higher than 50°C and must not have more amount of supplied water than it should.

9.TROUBLE SHOOTING

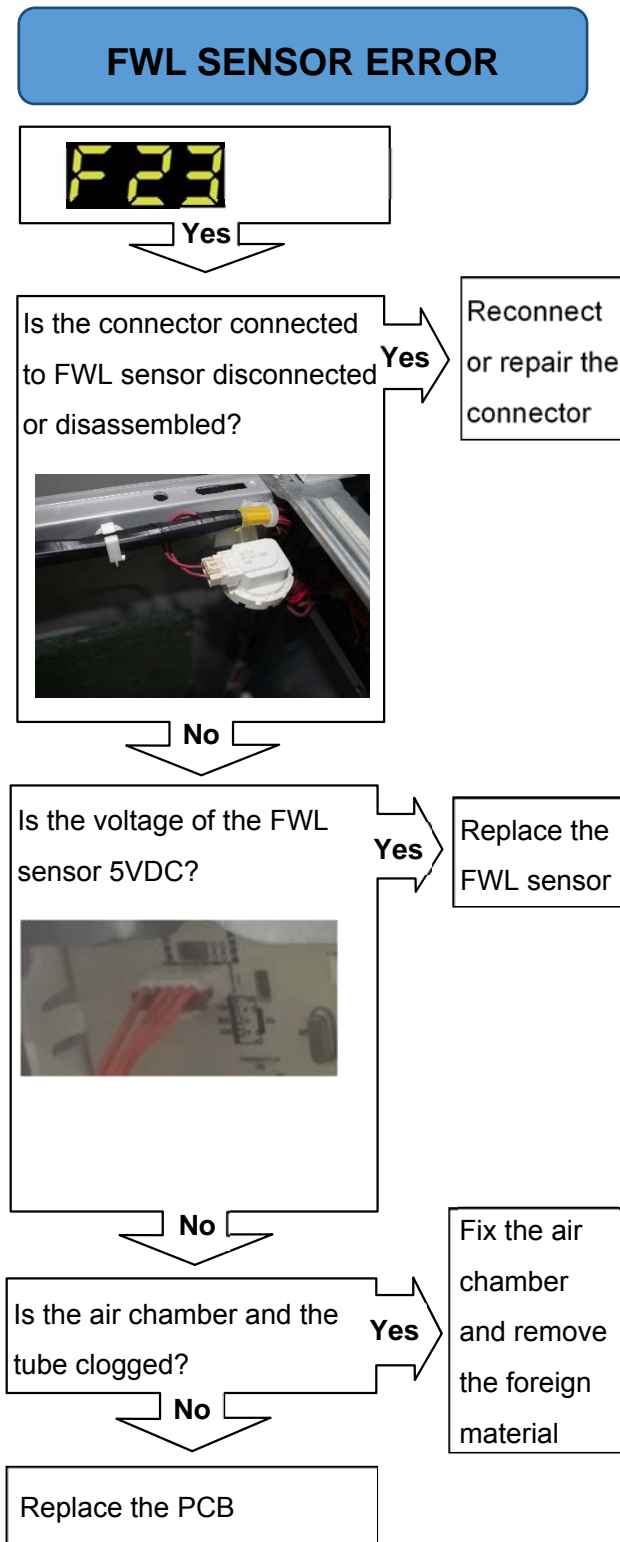


9.TROUBLE SHOOTING

OVERFLOW ERROR



9.TROUBLE SHOOTING

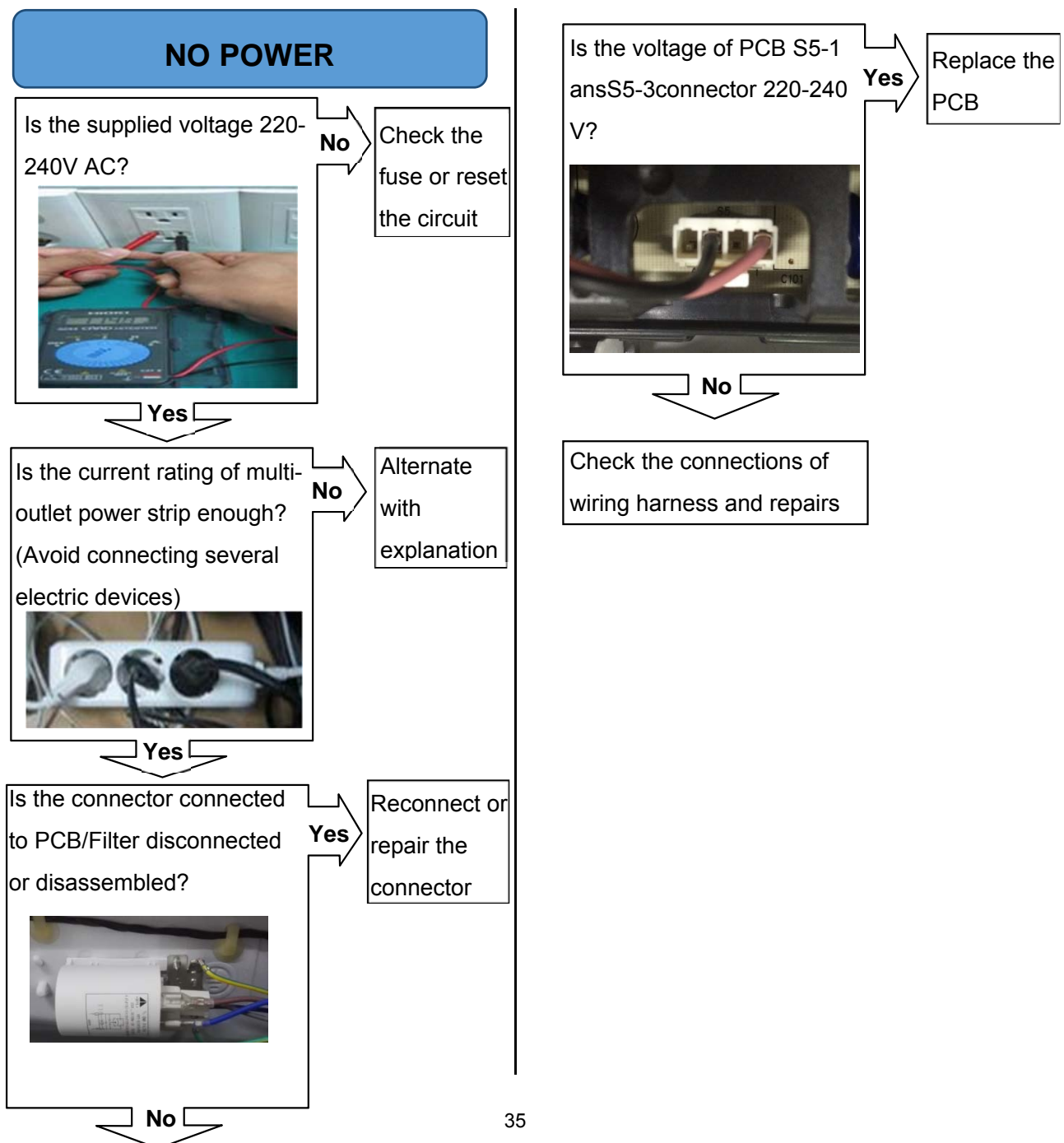


9.TROUBLE SHOOTING

9.4 TROUBLE SHOOTING ELSE

CAUTION:

1. Be careful of electric shock if disconnecting parts while troubleshooting.
2. First of all, check the connection of each electrical terminal with the wiring diagram.
3. If you replace the MAIN PWB ASSEMBLY, reinsert the connectors correctly.



9.TROUBLE SHOOTING

BUTTON DOESN'T WORK

Is the connector connected to PCB / display LED disconnected or disassembled?



Yes → Reconnect or repair the connector

No →

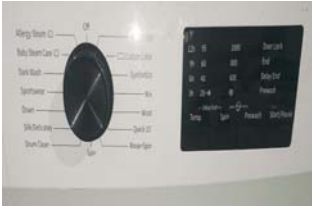
Is the button of panel stuck?



Yes → Repair the button

No →

Is the display PCB broken?(check the buzzer sound and LED light while push the button.)

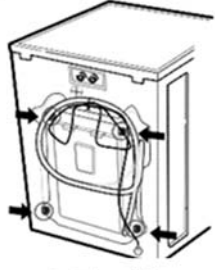


Yes → Repair the PCB / Display LED

9.TROUBLE SHOOTING

VIBRATION & NOISE IN SPIN

Have all the transit bolts and base packing been removed? **No**



Base packing
Yes

Remove the transit bolts and Base packing

Is the washer installed on a solidly constructed floor? **No**

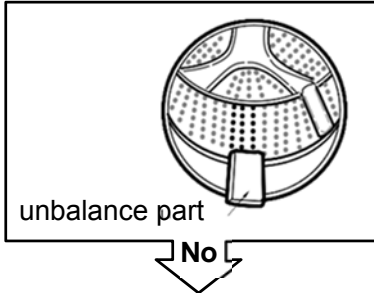
Yes

Move the washer or reinforce the floor.

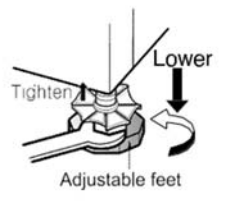
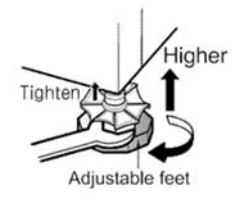
Check if the washer is perfectly level as follows:
1. Check the leveling of the washer with a level and check that the washer is stable.



2. Put an rubber unbalance part (or 2 to 3 kg) inside of drum and run in high spin. When the machine is spinning in high speed, verify that it is stable.



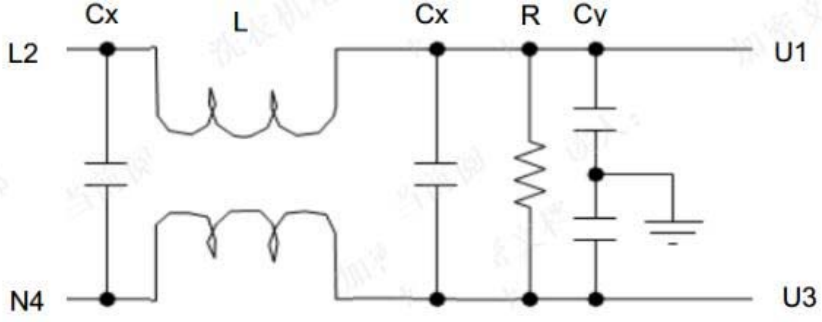

If it is not stable, adjust feet accordingly. After the washer is level, tighten the lock nuts up against of the base of the washer. All lock nuts must be tightened.



10.COMPONENT TESTING INFORMATION

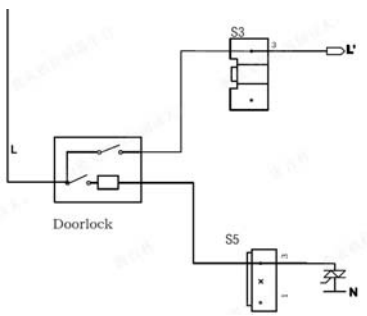

CAUTION: When Resistance (Ohm) checking the Component, be sure to turn the power off, and do voltage discharge sufficiently.

10.1 FILTER

<p>Wiring diagram</p>	<p>Circuit in the PCB / Wiring Diagram</p> 															
<p>Test points and result</p>	 <p style="text-align: center;">L2 U1 U3 N4</p> <table border="1" data-bbox="405 1682 1437 1944"> <thead> <tr> <th>Test Points</th> <th>Result</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>L2-U1</td> <td>0Ω</td> <td></td> </tr> <tr> <td>L2-U3</td> <td>680KΩ</td> <td></td> </tr> <tr> <td>N4-U1</td> <td>680KΩ</td> <td></td> </tr> <tr> <td>N4-U3</td> <td>0Ω</td> <td></td> </tr> </tbody> </table>	Test Points	Result	Remarks	L2-U1	0Ω		L2-U3	680KΩ		N4-U1	680KΩ		N4-U3	0Ω	
Test Points	Result	Remarks														
L2-U1	0Ω															
L2-U3	680KΩ															
N4-U1	680KΩ															
N4-U3	0Ω															

10.COMPONENT TESTING INFORMATION

10.2 DOOR LOCK

<p>Wiring diagram</p>	<p>Circuit in the PCB / Wiring Diagram</p> 												
<p>Function</p>	<p>1. Machine door lock: After press down the “Start/pause” key, the MCU will send out an order to close the door, the SCR controls the door locks L and N to connect, PTC is heating, L’ breakover, and the loads such as inlet valve, pump, motor and so on are energized.</p> <p>2. Machine door unlock: After the washing program ends, the MCU sends out an order of unlocking, the SCR controls the door locks L and N to connect, and after 3 to 5 seconds, the PTC temperature falls, L’ breaks, and the unlocking operation is finished.</p>												
<p>Test points and result</p>	 <table border="1" data-bbox="406 1758 1436 1971"> <thead> <tr> <th>Test Points</th> <th>Result</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>3-4</td> <td>1000Ω</td> <td>At 77°F (25°C)</td> </tr> <tr> <td>4-5</td> <td>0Ω</td> <td></td> </tr> <tr> <td>3-5</td> <td>220-240V</td> <td>Voltage Input</td> </tr> </tbody> </table>	Test Points	Result	Remarks	3-4	1000Ω	At 77°F (25°C)	4-5	0Ω		3-5	220-240V	Voltage Input
Test Points	Result	Remarks											
3-4	1000Ω	At 77°F (25°C)											
4-5	0Ω												
3-5	220-240V	Voltage Input											

10.COMPONENT TESTING INFORMATION

10.3 MOTOR

<p>Wiring diagram</p>	<p>Circuit in the PCB / Wiring Diagram</p>															
<p>Function</p>	<p>The SCR controls to impose different break-over voltage onto the stator to control the size of rotation speed, and when the rotation speed increases up to a null value (600rpm, the complete machine), switch off the high-speed tap via K1 to reach 1400rpm, the maximum rotation machine of complete machine; adjust the rotation direction of rotator via K2 and K3 so as to make the complete machine to revolve clockwise and anti-clockwise.</p>															
<p>Test points and result</p>	<table border="1"> <thead> <tr> <th>Test points</th> <th>Result</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>M10-M7</td> <td>1.900±7%Ω</td> <td></td> </tr> <tr> <td>M7-M6</td> <td>1.100±7%Ω</td> <td></td> </tr> <tr> <td>M9-M8</td> <td>2.48±7%Ω</td> <td></td> </tr> <tr> <td>M1-M2</td> <td>68.8±7%Ω</td> <td></td> </tr> </tbody> </table>	Test points	Result	Remarks	M10-M7	1.900±7%Ω		M7-M6	1.100±7%Ω		M9-M8	2.48±7%Ω		M1-M2	68.8±7%Ω	
Test points	Result	Remarks														
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M7-M6	1.100±7%Ω															
M9-M8	2.48±7%Ω															
M1-M2	68.8±7%Ω															

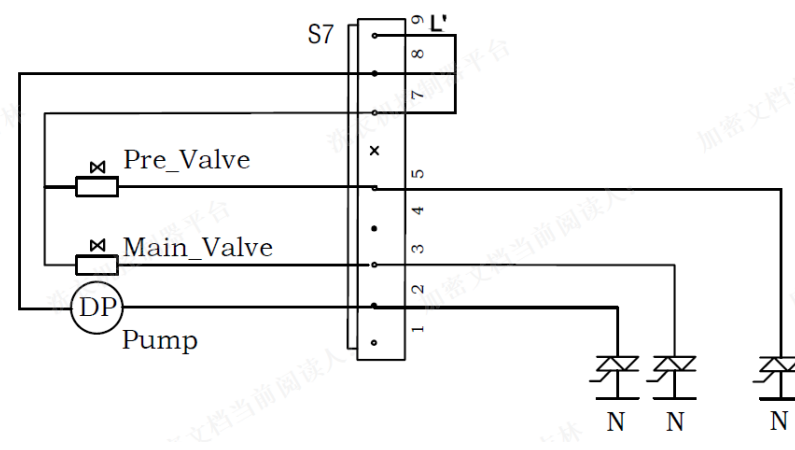
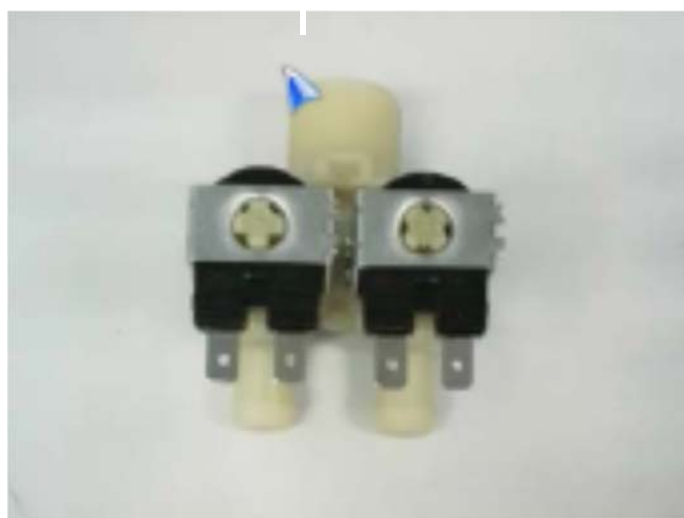
10.COMPONENT TESTING INFORMATION

10.4 PUMP

<p>Wiring diagram</p>	<p>Circuit in the PCB / Wiring Diagram</p>						
<p>Function</p>	<p>The pump are used to drain the tub and to circulate the water</p>						
<p>Test points and result</p>	<table border="1" data-bbox="405 1845 1433 1944"> <thead> <tr> <th>Test points</th> <th>Result</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1-2</td> <td>325±10%Ω</td> <td></td> </tr> </tbody> </table>	Test points	Result	Remarks	1-2	325±10%Ω	
Test points	Result	Remarks					
1-2	325±10%Ω						

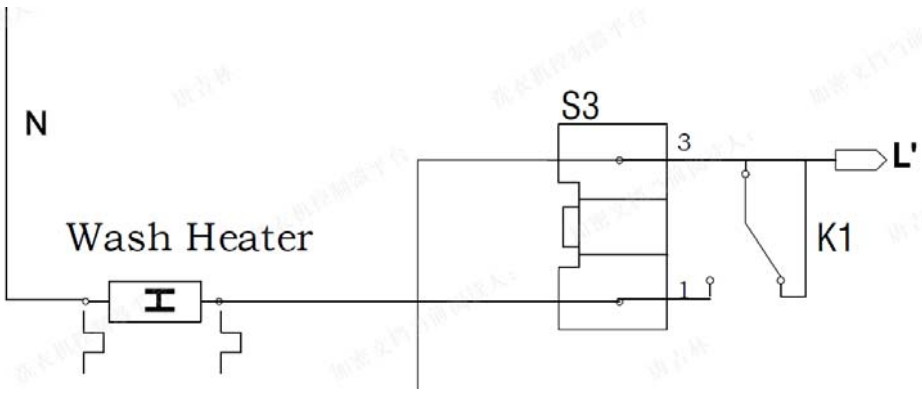

10.COMPONENT TESTING INFORMATION

10.5 INLET VALVE

<p>Wiring diagram</p>	<p>Circuit in the PCB / Wiring Diagram</p> 									
<p>Function</p>	<p>The PCB will power on the pre-valve and main_valve as per the settings of program, and fill water into the tub to reach the set water level.</p>									
<p>Test points and result</p>	 <table border="1" data-bbox="399 1724 1436 1881"> <thead> <tr> <th>Test points</th> <th>Result</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1-2</td> <td>4.0-5.0KΩ</td> <td>Pre_Valve</td> </tr> <tr> <td>1-3</td> <td>4.0-5.0KΩ</td> <td>Main_Valve</td> </tr> </tbody> </table>	Test points	Result	Remarks	1-2	4.0-5.0KΩ	Pre_Valve	1-3	4.0-5.0KΩ	Main_Valve
Test points	Result	Remarks								
1-2	4.0-5.0KΩ	Pre_Valve								
1-3	4.0-5.0KΩ	Main_Valve								

10.COMPONENT TESTING INFORMATION

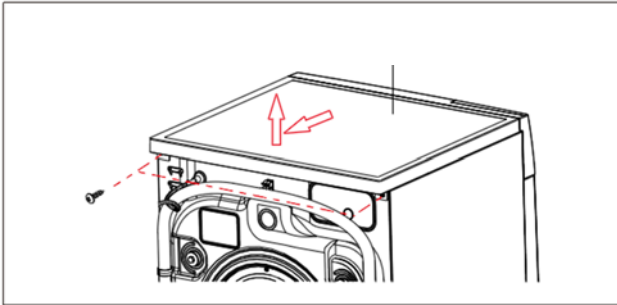
10.6 HEATER

<p>Wiring diagram</p>	<p>Circuit in the PCB / Wiring Diagram</p> 						
<p>Function</p>	<p>The wash heater is designed to raise the wash water to the desired temperature selection during certain wash cycles.</p>						
<p>Test points and result</p>	 <table border="1" data-bbox="406 1881 1436 1989"> <thead> <tr> <th>Test points</th> <th>Result</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1-2</td> <td>35.3±5%Ω</td> <td></td> </tr> </tbody> </table>	Test points	Result	Remarks	1-2	35.3±5%Ω	
Test points	Result	Remarks					
1-2	35.3±5%Ω						

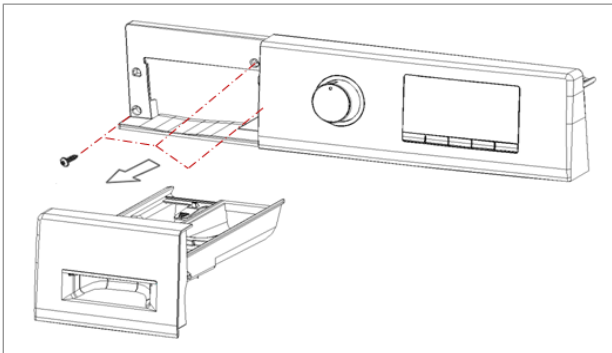
11.DISASSEMBLY INSTRUCTIONS

※Be sure to unplug the machine before disassembling and repairing the parts.

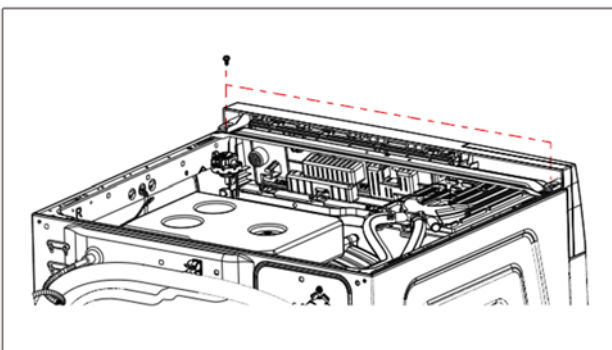
11.1CONTROL PANEL ASM



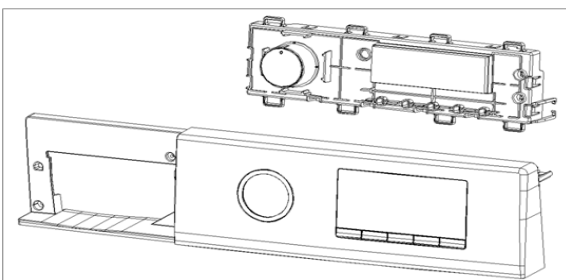
1. Unscrew 2 screws on the back of the top panel as shown
2. Pull the top plate backward and upward as shown



3. Pull out the drawer
4. Unscrew 3 screws as shown



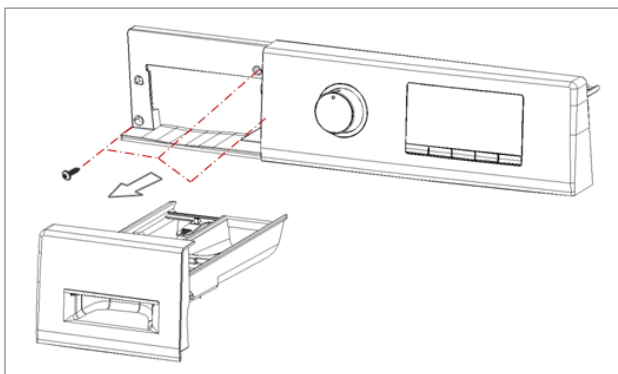
5. Unscrew 2 screws as shown
6. Lift the side of the control panel and pull it out



7. Disconnect the PCB connector from main harness
8. Disassemble the PCB box

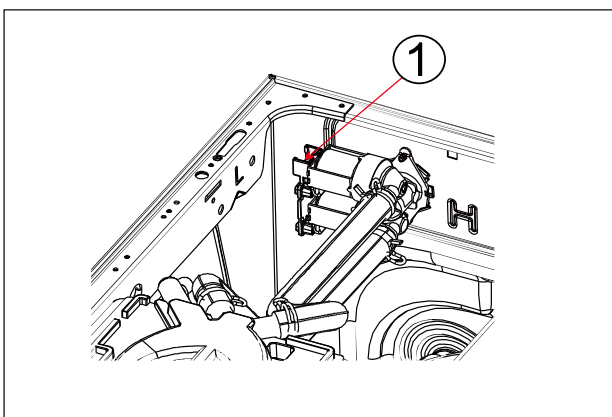
11.DISASSEMBLY INSTRUCTIONS

11.2 DISPENSER ASM



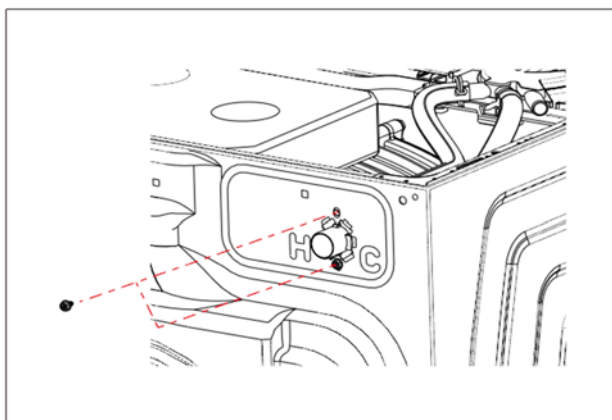
1. Disassemble the top panel

2. Pull out the drawer

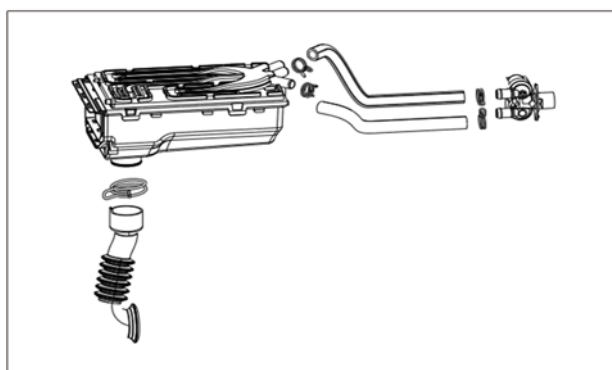


3. Unscrew 3 screws as shown
4. Disconnect the double_valve

connector from main harness as ①
shown



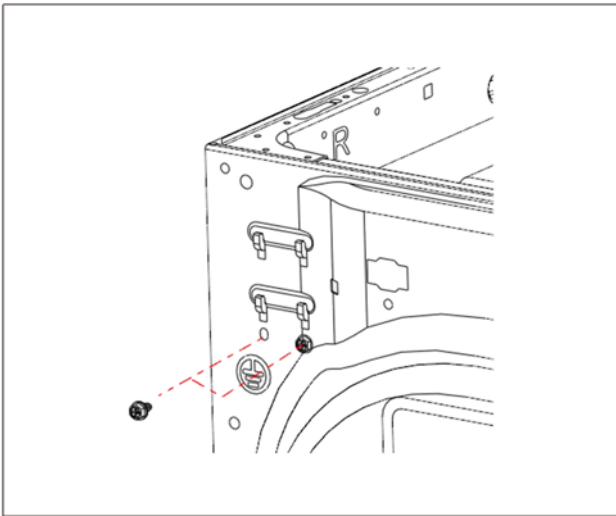
5. Unscrew 2 screws as shown



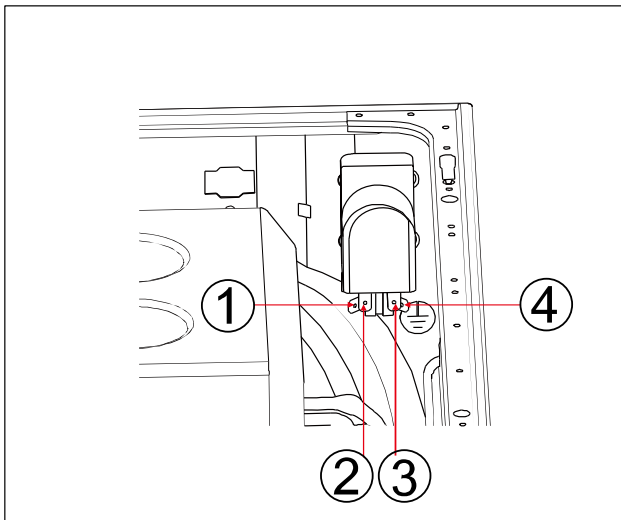
6. Disassemble the hose clamp as
shown

11.DISASSEMBLY INSTRUCTIONS

11.3FILTE



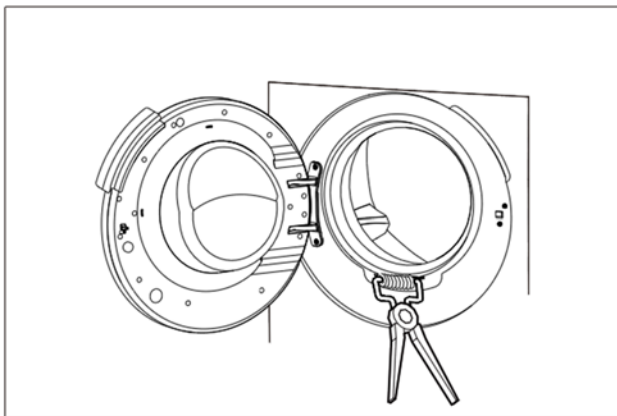
1.Unscrew 2 screws as shown



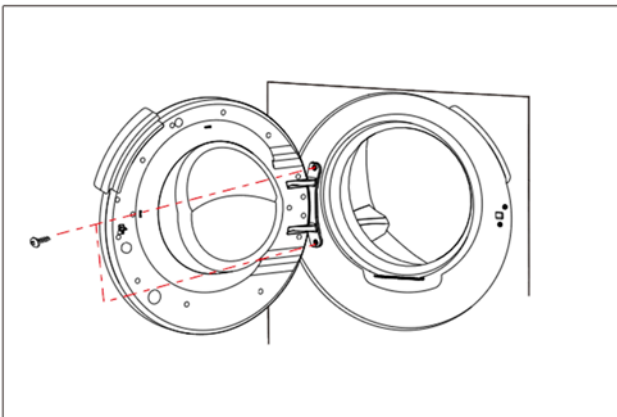
2.Disconnect the filter connector from main harness as ①②③④ shown

11.DISASSEMBLY INSTRUCTIONS

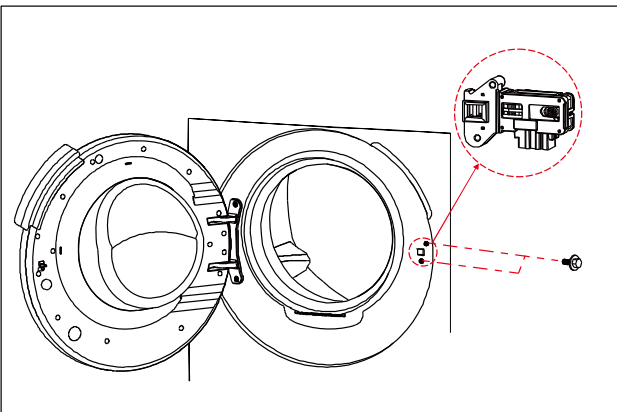
11.4 DOOR ASM



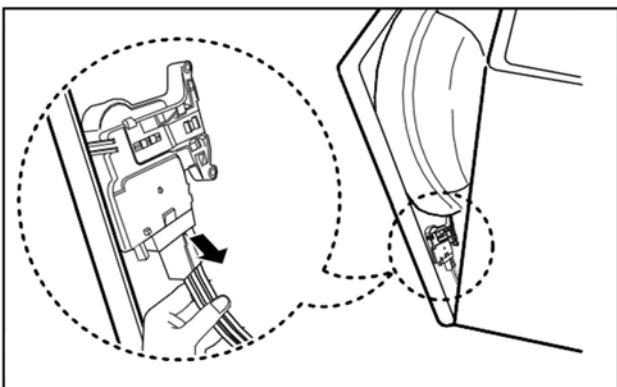
1. Open the door.。
2. Disassemble retainer-bellow as shown



3. Unscrew 2 screws as shown,
Disassemble the door ASM



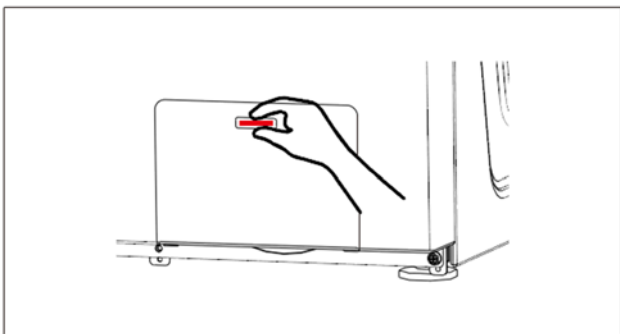
4. Unscrew 2 screws as shown



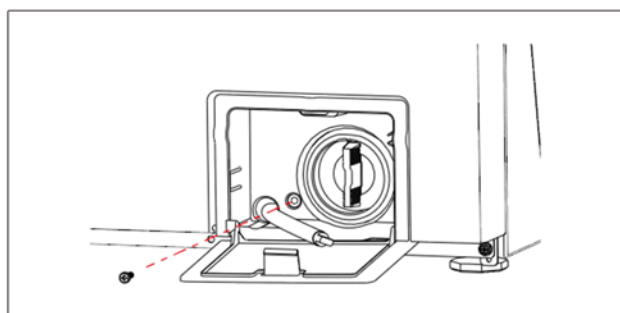
5. Disconnect the door lock connector
from main harness

11.DISASSEMBLY INSTRUCTIONS

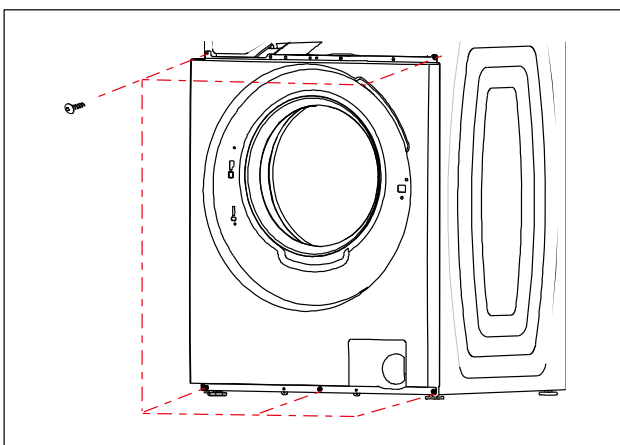
11.5 FRONT PANEL



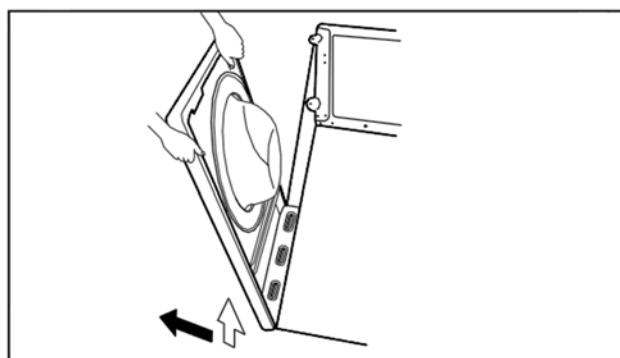
1. Use a coin or screwdriver to insert into the gap of pump door cover, open the pump door cover



2. Unscrew 1 screws as shown



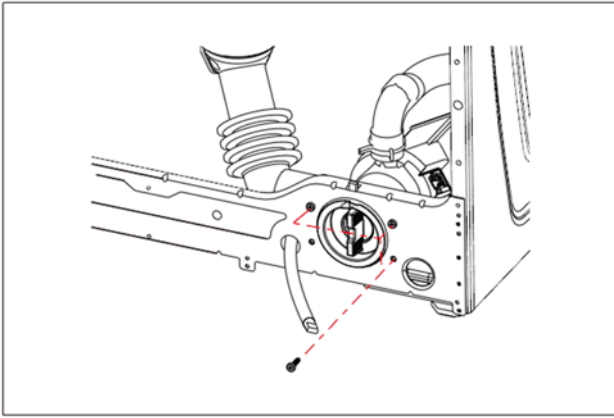
3. Unscrew 5 screws as shown



4. Lift and separate the front panel

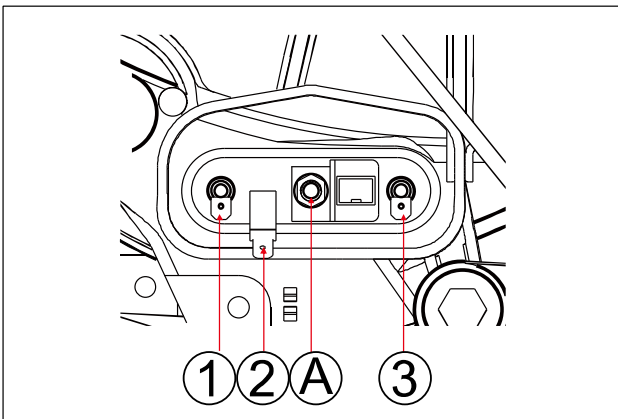
11.DISASSEMBLY INSTRUCTIONS

11.6 PUMP

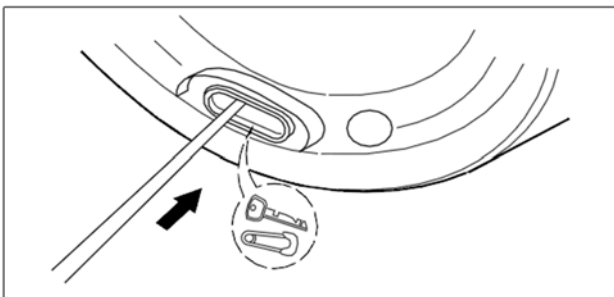


1. Unscrew 3 screws as shown
2. Disassemble the hose clamp connect to the pump

11.7 HEATER



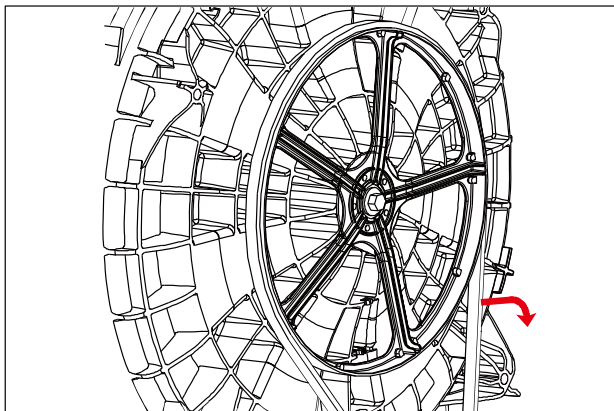
1. Disassemble the rear panel
2. Disconnect the heater connector from main harness as ①②③ shown
3. Unscrew 3 screws as "A" shown



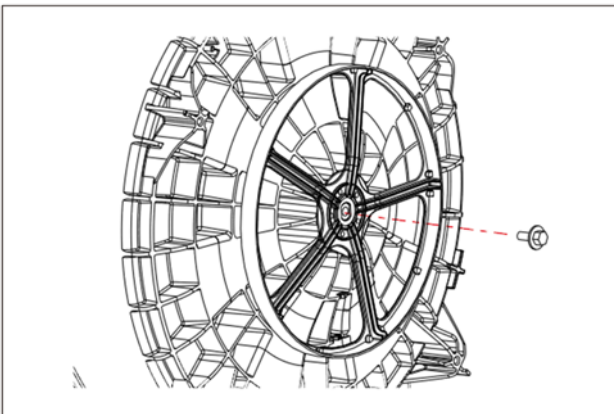
4. When foreign objects (wire, coin, etc.) is stuck between drum and tub, Remove foreign objects by inserting a long bar in the opening.

11.DISASSEMBLY INSTRUCTIONS

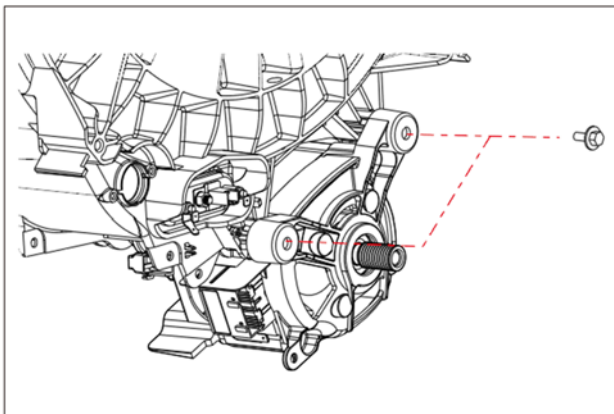
11.8 MOTOR



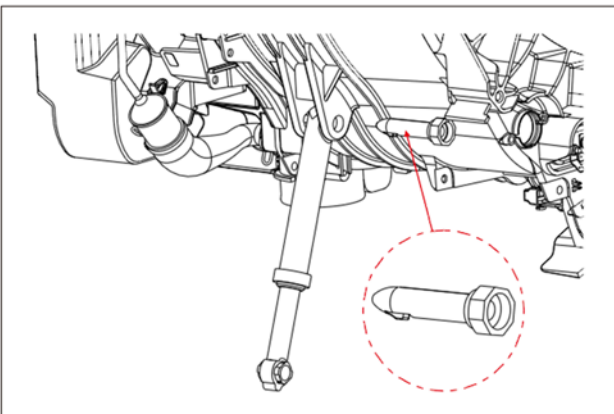
1. Disassemble the belt as shown



3.Unscrew crew as shown, disassemble the pulley



3. Unscrew 2 crews as shown, disassemble the motor



4. Disassemble the damper pin as shown, and look out the claw structure on the pin.