



WASHING MACHINE SERVICE MANUAL

**WFMY7014EVM/WFMY7014EVMS/WFMY7014EVMT
WFQE7014EVM/WFQE7014EVMS/WFQE7014EVMT
WFLE7014EVM/WFLE7014EVMS/WFLE7014EVMT
WFQA7014EVM/WFQA7014EVMS/WFQA7014EVMT
WFMY7012EVM/WFMY7012EVMS/WFMY7012EVMT
WFQE7012EVM/WFQE7012EVMS/WFQE7012EVMT
WFLE7012EVM/WFLE7012EVMS/WFLE7012EVMT
WFQA7012EVM/WFQA7012EVMS/WFQA7012EVMT
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WFQE6012EVM/WFQE6012EVMS/WFQE6012EVMT
WFLE6012EVM/WFLE6012EVMS/WFLE6012EVMT
WFQA6012EVM/WFQA6012EVMS/WFQA6012EVMT**



CAUTION

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

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1. SAFETY NOTICES

Warning 



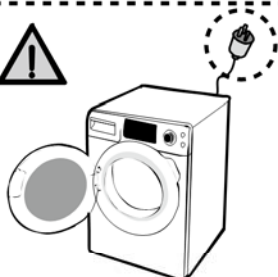
- The persons except for the specified professional maintenance personnel shall be absolutely prohibited from dismantling, repairing or modifying the washing machine.
- Prevent from electric shock, fire and personal injury due to improper behaviors.



In case of abnormalities (abnormal noise, smell of burning, smoke, etc.), please immediately pull out the plug to stop the machine, and contact with the "After-sales Service Personnel".



- This product adopts dipolar power cords with ground pins, and please use dipolar grounded power socket. It is recommended to use a leakage protector.
- It is for preventing from damage due to electric leakage or fault.



- When the washing machine is unused, out of power or moved, please be sure to pull out the power plug.
- It is for preventing from electric shock, electric leakage or fire due to the aging of insulation.



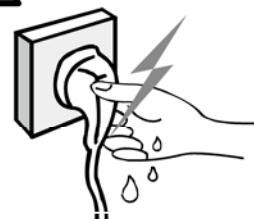
- In case of any dust and dirt adhering to the pins of power plugs or to the clamping surfaces, please wipe clean first and then use.
- It is for preventing from fire.



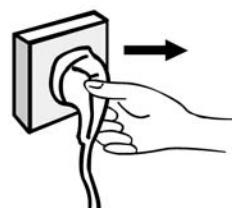
- It is prohibited to use the damaged power cords, plugs or loose socket.
- Otherwise, accidents like electric shock, short circuit or fire may occur.
- If the power cords are damaged, contact with the "After-sales Service Personnel".



- Please use a separate 16A/AC 250V or above power socket.
- A fire may happen due to abnormal heating caused by the co-sharing of power socket with other electrical equipment.



- It is prohibited to plug and pull the power plug with wet hand.
- It is for preventing from accidents due to electric shock.



Do not pull the power cords when pulling out the power plugs, and be sure to pull the plugs outwards with its body held firmly.

1. SAFETY NOTICES

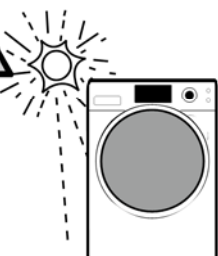
Notice



- Cut off the power first before maintaining and repairing the washing machine.
- It is for preventing from harms due 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.



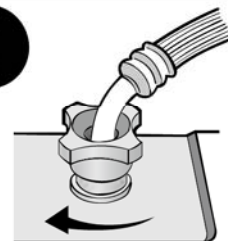
Mechanical Injury

- 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".

2. SPECIFICATIONS

ITEM		WFMY7014EVM(*)/WFQE7014EVM(*)/WFLE7014EVM(*)/WFQA7014EVM(*) WFMY7012EVM(*)/WFQE7012EVM(*)/WFLE7012EVM(*)/WFQA7012EVM(*) WFMY6012EVM(*)/WFQE6012EVM(*)/WFLE6012EVM(*)/WFQA6012EVM(*)
COLOR		WHITE/SILVER/Titanium Grey
POWER SUPPLY		AC 220-240 V, 50 Hz
PRODUCT WEIGHT		59kg
ELECTRIC POWER CONSUMTION	WASHING	200 W
	HEATER	1500 W
REVOLUTION SPEED	WASH	55 rpm
	SPIN	1400 /1200rpm
CYCLES		15
WASH/RINSE TEMPERATURES		--/20/30/40/60/90℃
SPIN SPEEDS		0/400/600/800/1000/1200/1400 rpm
OPTIONS		Temp./Spin/*Favourite/Options/Delay End
WATER CIRCULATION		0.1-1 MPa
CONTROL TYPE		Electronic lock
Washing Capacity		6kg/7kg
Dimension		595×465×845 mm
DELAY WASH		up to 24 hours
DOOR LOCK TYPE		Electric-magnetic lock
WATER LEVEL		FWL Sensor control
LAUNDRY LOAD SENSING		Incorporate (Cotton、 Synthetics)
ERROR DIAGNOSIS		Incorporated
AUTO POWER OFF		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.

■ Automatic Wash Load Detection



Automatically detects the load and optimizes the washing time.

■ Built-in Heater



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

■ Child Lock

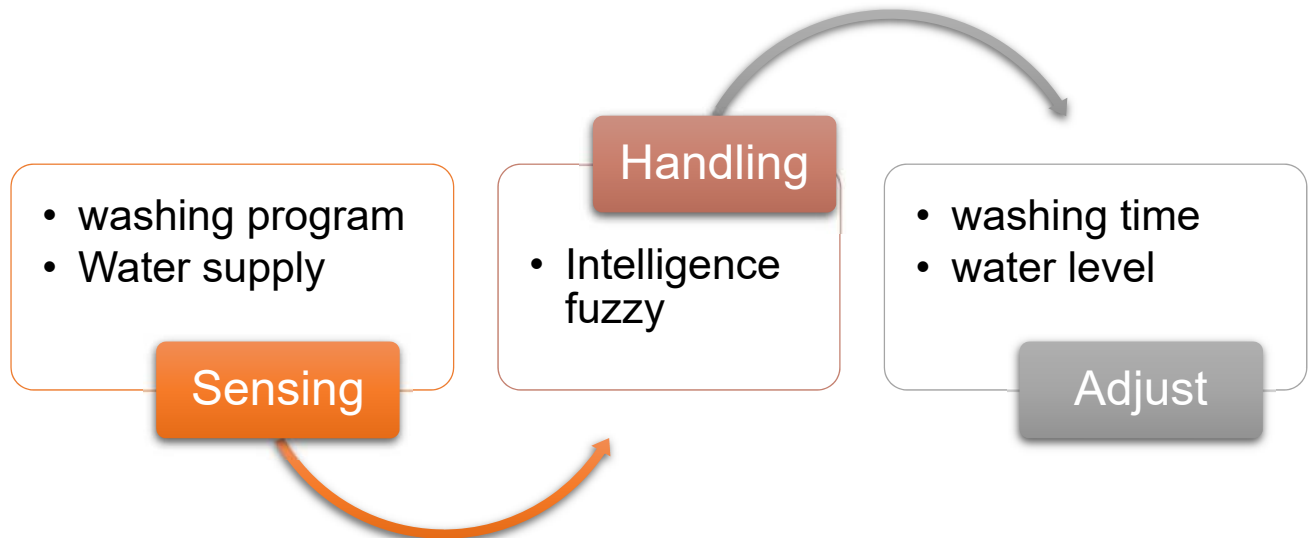


The Child lock prevents children from pressing any button to change the settings during operation.

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

- ♦ The washing machine shows “END” at the end of the program, when the door is unlocked. If the knob is turned to “Off”, the power will be cut off. If there is no button or knob operation within 2 minutes, the program will automatically power off.
- ♦ 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”.
- ◆ When the program finishes and displays “End”, the door will be unlocked, and the PCB will enter in “End mode”.
- ◆ If no button-press operation is done for 2 minutes when the washing machine is under “Ready mode”, the PCB will automatically be power off and switch to “Off mode”. If no button-press operation is done for 30 seconds when the washing machine is under “End mode” where the washing is completed, the PCB will automatically be power off and switch to “Off mode”.
- ◆ In order to avoid the user to falsely triggering the “ON/Off” button, two 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. FEATURES & TECHNICAL EXPLANATION

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 off, the door is unlocked.

3. FEATURES & TECHNICAL EXPLANATION

- ◆ The program enters in “Pause mode” from “Run mode”, and the unlocking operation can be executed if conditions permit.
- ◆ 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 the PCB enters in the “Ready mode”, select proper program and function, 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	50rpm	45rpm	55rpm
Rotation/Stop ratio	10/5	25:5	10:5	15:5

3. FEATURES & TECHNICAL EXPLANATION

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 higher than the water temperature, no 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 clockwise direction. Carry out distribution measurement at low speed (about 110rpm) 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

3. FEATURES & TECHNICAL EXPLANATION

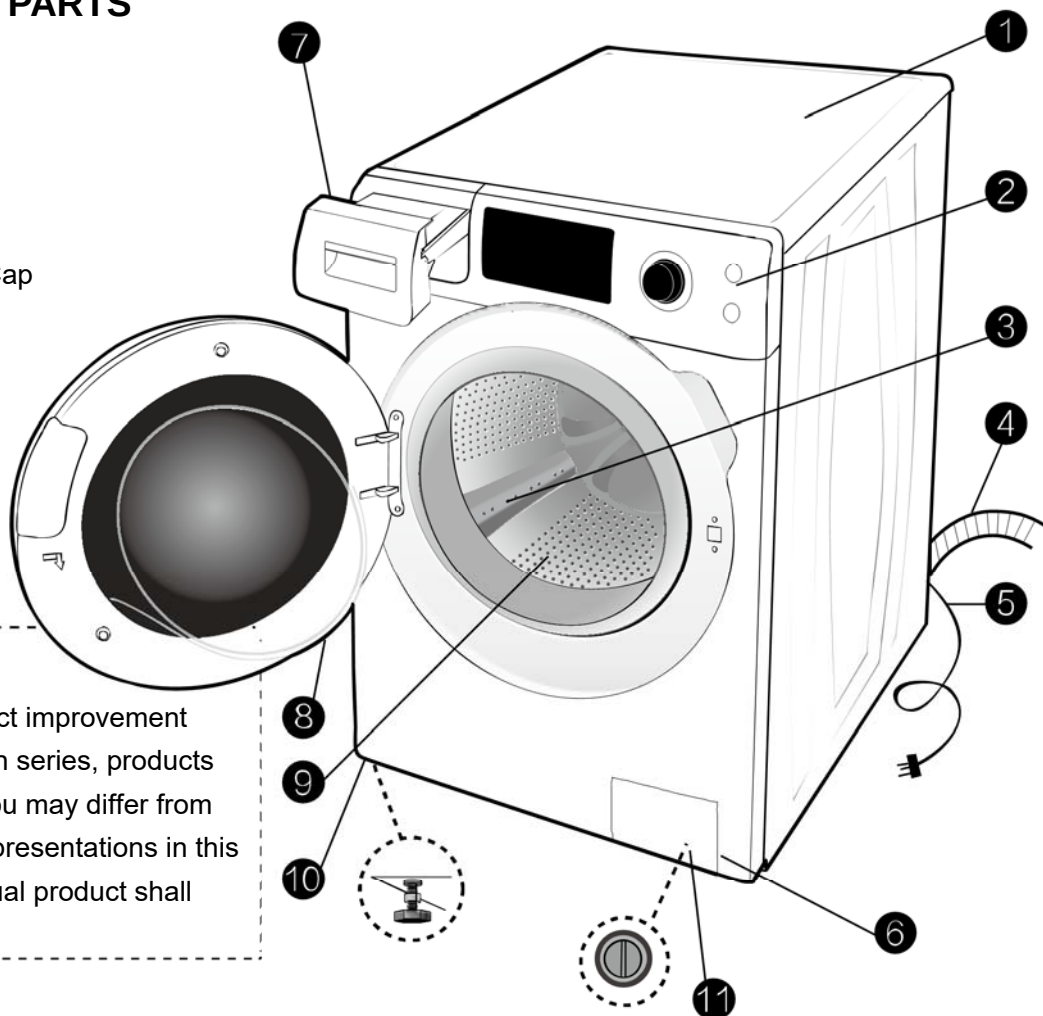
progressively and occupy the Spinning time until the latter is run out.

♦ During Spinning, if the clothes are not spinning at last as the distribution measurement fails all the time, then “End/Unb” will alternately display after the program ends at an interval of 1s, the display window is on all the time, and the alarm will give out buzzing sound.

4. PARTS IDENTIFICATION

MARKS OF PARTS

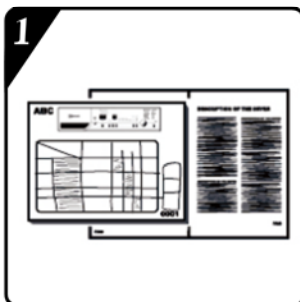
1. Top Cover
2. Control Panel
3. Lifter
4. Drain Hose
5. Power Plug
6. Filter Cover Cap
7. Dispenser
8. Door
9. Drum
10. 4 Adjustable Feet
11. Drain Pump Filter



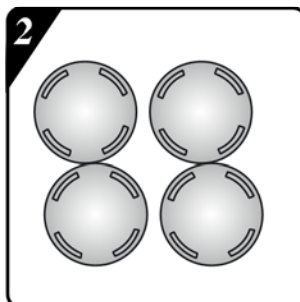
! Notice

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.

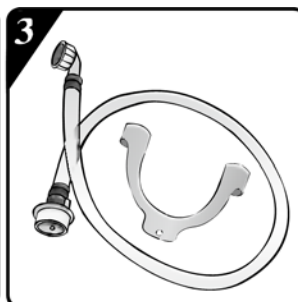
ACCESSORIES



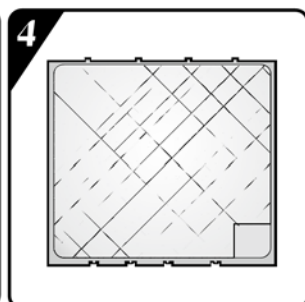
IFU ASM



4 Plastic Caps Of
Transportation Bolt



Inlet Tube + "U"
Elbow Bracket



Noise Reduce
Board

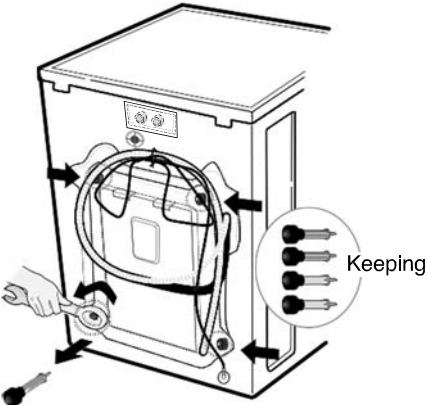
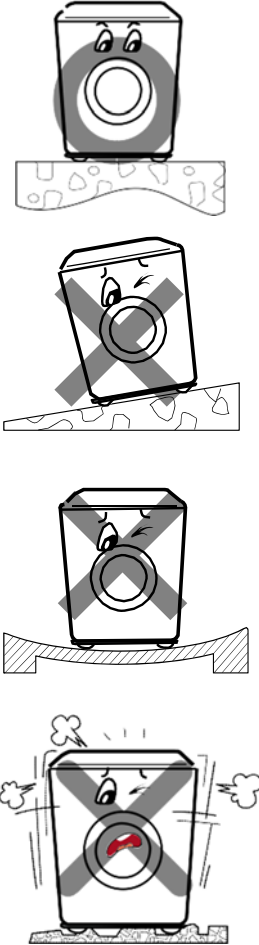
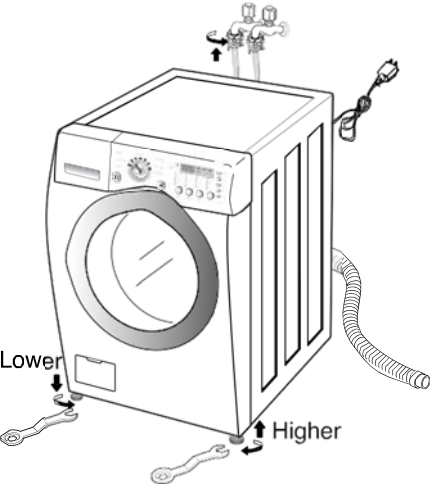
! Notice

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.

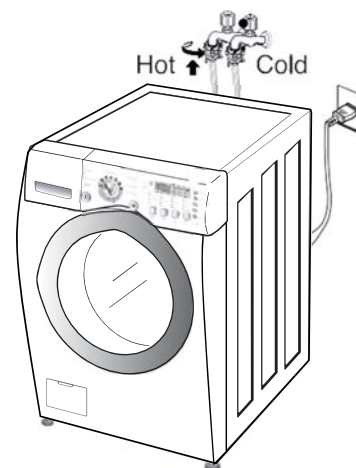
5.1 STANDARD INSTALLATION

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

5. INSTALLATION AND TEST

5.2 CONNECT THE INLET HOSE

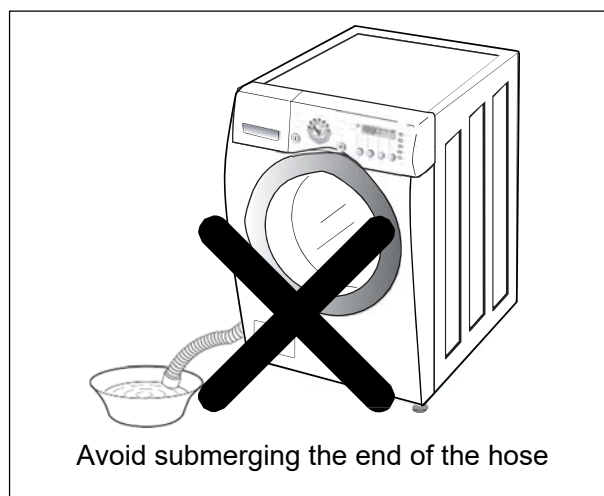
- ◆ Verify that the rubber washer is inside of the valve connector.
- ◆ Tighten the inlet hose securely to prevent leaks.



5.3 CONNECT THE DRAIN HOSE



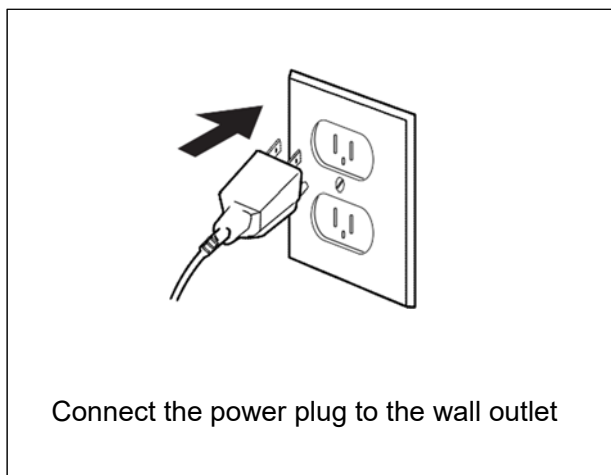
Make sure that the hose is not twisted



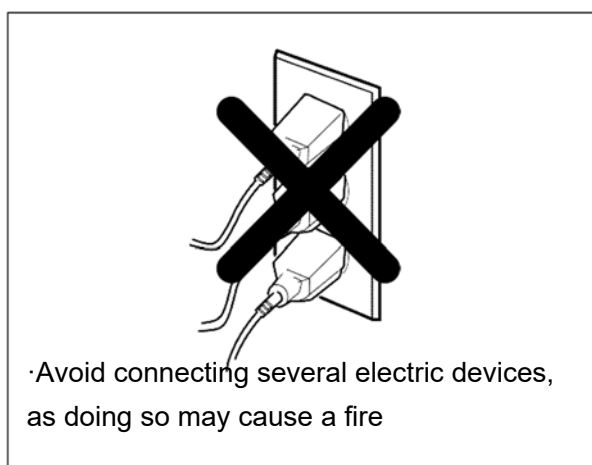
Avoid submerging the end of the hose

※ The end of the drain hose should be placed less than 96" from the floor

5.4 CONNECT POWER PLUG



Connect the power plug to the wall outlet



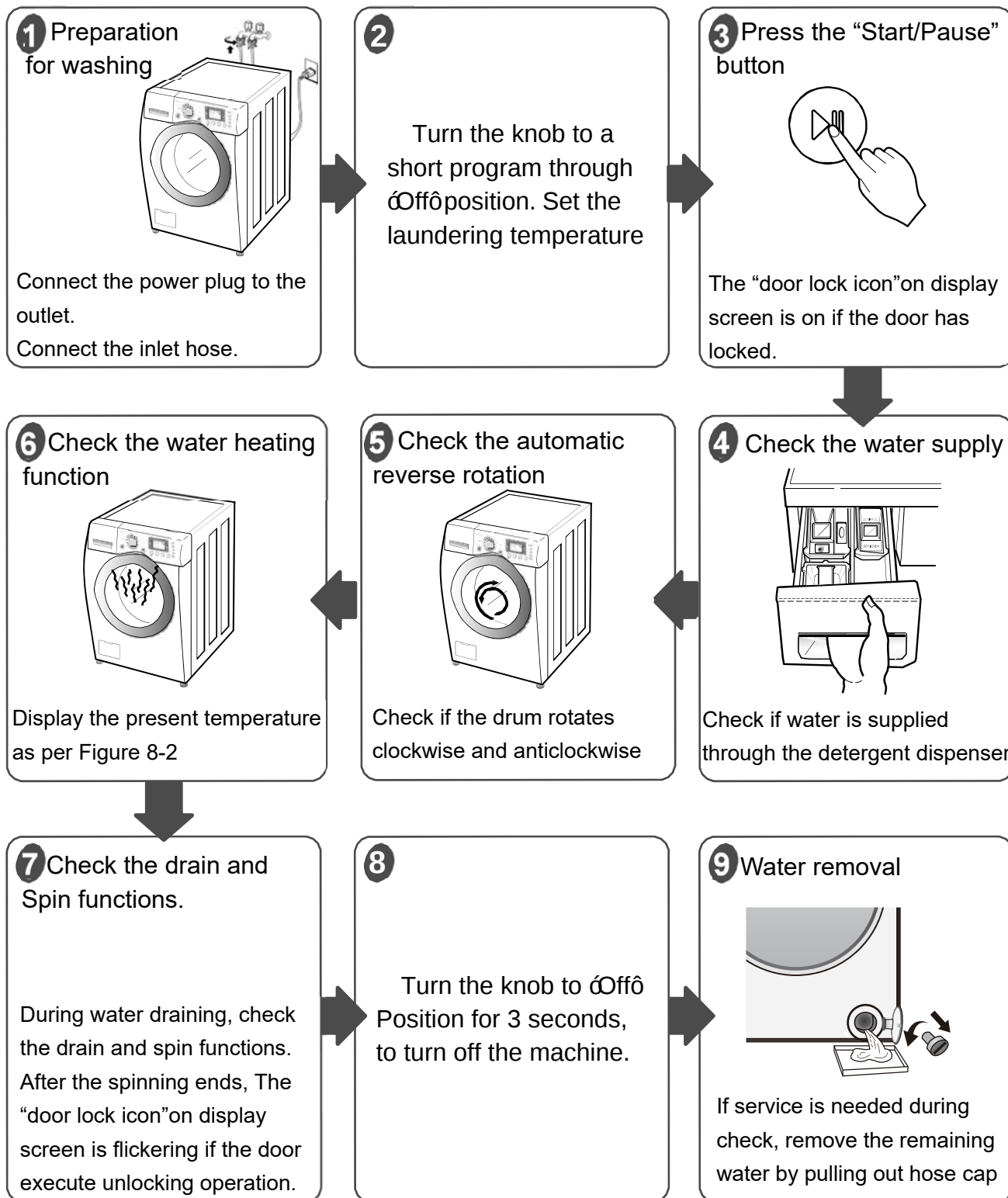
·Avoid connecting several electric devices, as doing so may cause a fire

5.5 TEST OPERATION

5. INSTALLATION AND TEST

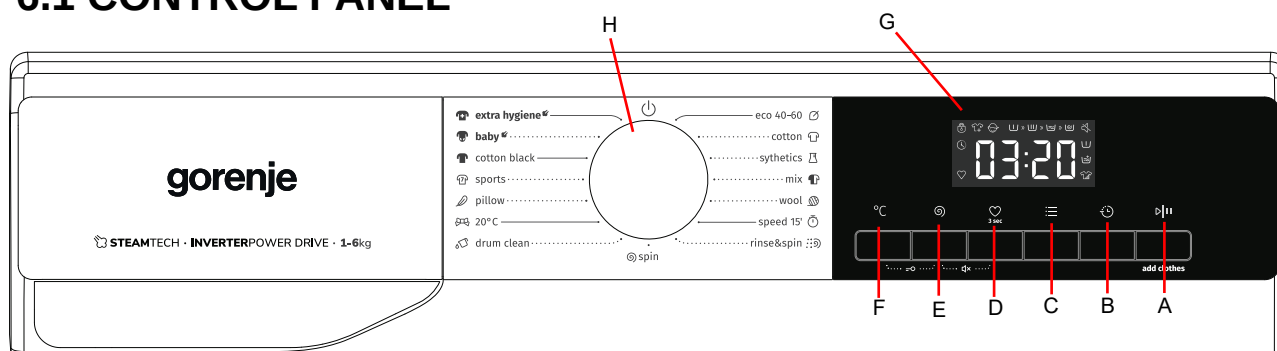
Carry out self-inspection on washing machine as per Figure 8-1 or carry out trial run as shown in figure below

[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



A: “Start/Pause” button

Start/ Stop the washer with this button

B: “Delay End” button

C: “Options” button

Choose the additional function of laundering by repeatedly pressing this button.

D: “*Favourite” button

This functions is used to store the program that you favourite.

E: “Spin” button

Change the final spinning speed by repeatedly pressing this button to switch over from one option to another.

F: “Temp.” button

Change the heating temperature of laundering by repeatedly pressing this button to switch over from one option to another.

G: Display window

Display the information such as the washing program, function, state and residual time of washer.

H: Cycle Selector Knob

15 programs and Off key can be selected through the knob

6. OPERATION

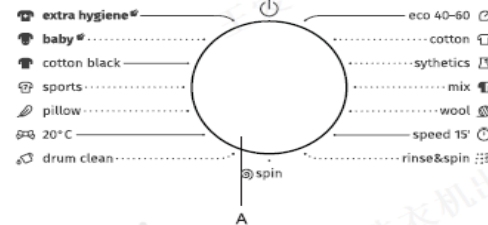
6.2 CYCLE GUIDE

The cycle guide below shows the options and recommended fabric types for each cycle.

Quick User Manual

This washing machine is equipped with automatic safety functions which detect and diagnose at an early stage and react appropriately.

- A. Program selector
- B. Program and function status display window
- C. "Temp." button
- D. "Spin" button
- E. "Favourite" button



gorenje

- F. "Options" button
- G. "Delay End" button
- H. "Start/Pause" button
- I. Child Lock Function
- J. Mute Function

Program	Care Label	Material / Level of Soiling	Maximum Wash Load kg	Detergent Compartment			Wash Program Functions								Maximum spin speed rpm
				Prewash 	Main wash 	Softener 	Delay End 	Prewash 	Extra rinse 	Default rinse times	Intensive 	Spin	Temp.		
Cotton --20°C, 30°C, 40°C, 60°C, 90°C	 	Washing temperature selected as per the Care Label instruction. Heavily and moderately soiled cotton, or linen. For very heavily soiled items select the "Prewash" function.	6/7/7	*	Yes	*	*	*	*	3	*	*	*	1200 / 1200 1400	
Synthetics --20°C, 30°C, 40°C, 60°C	 	Moderately soiled synthetics, cotton blended fabrics.	6/7/7	*	Yes	*	*	*	*	3	*	*	*	1200 / 1200 1400	
Extra Hygiene(2) 40°C, 60°C		It is suitable for high temperature resistant and less fading fabrics, which removes allergens such as pollens, mites and parasites through high temperature steam.	2/2/2	*	Yes	*	*	*	*	4	*	*	*	1200 / 1200 1400	
Eco40-60 (1)	—	Normally soiled cotton laundry.	6/7/7	—	Yes	—	*	—	—	1	—	*	—	1200 / 1200 1400	
Wool --20°C, 30°C, 40°C		Machine washable wool. (Refer to the washing label attached to the clothing).	2/2/2	—	Yes	*	*	—	*	2	—	*	*	600 / 600 600	
Baby(2) 40°C, 60°C, 90°C		It is suitable for baby clothes and underwear, etc., which sterilizes and disinfects through high temperature steam.	2/2/2	*	Yes	*	*	*	*	3	*	*	*	1200 / 1200 1400	
Cotton Black --20°C, 30°C, 40°C, 60°C	—	Dark textiles made of cotton and dark easy-care textiles	3/3.5/3.5	*	Yes	*	*	*	*	2	*	*	*	1000 / 1000 1000	
Speed 15' --20°C, 30°C, 40°C	 	Cotton, mixed fabrics. Items worn for a short time or newly bought.	1/1/1	—	Yes	*	*	—	*	1	—	*	*	800 / 800 800	
Mix --20°C, 30°C, 40°C	 	Mixed loads of moderately soiled cotton and synthetic fabrics.	3/3.5/3.5	*	Yes	*	*	*	*	2	*	*	*	1200 / 1200 1400	
Sports --20°C, 30°C, 40°C		Sportswear and leisure wear made from microfibre fabrics.	2/2/2	*	Yes	*	*	*	*	2	*	*	*	1000 / 1000 1000	
Pillow --20°C, 30°C, 40°C		Machine-washable items stuffed with synthetic fibres, such as pillows, quilts and bedspreads; also suitable for items stuffed with down.	2/2/2	—	Yes	*	*	—	*	2	—	*	*	600 / 600 600	
20°C	—	This program is suitable for cotton clothes with light stains,energy saving.	6/7/7	*	Yes	*	*	*	*	2	*	*	—	1200 / 1200 1400	
Drum Clean 90°C	—	Program to remove dirt and bacterial residue that can breed in the machine after it has been used for a period, especially when low temperature washes are used regularly.	—	—	Yes	—	*	—	—	1	—	—	—	800 / 800 800	
Rinse&Spin	—	This program is defaulted to two rinses and spin.	6/7/7	—	—	*	*	—	*	2	—	*	—	1200 / 1200 1400	
Spin	—	Select the length, and speed, of the spin manually.	6/7/7	—	—	—	*	—	—	0	—	*	—	1200 / 1200 1400	

* : Optional Functions Yes : Detergent Required — : Cannot be selected -- : Temperature of unheated water

(1) Wash performance test programs are:Eco 40-60.

(2) Allergy Steam and Baby Steam Care both washing are suitable to sterilize the colorfast clothes, When you see the door glass with water mist,please don't put your hand on the door glass or open the dispenser to prevent burns.

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 Delay button once and the delay time will increase by 30 minutes.
Press and hold the button and the delay time will increase by 30 minutes every 0.4 seconds. The delay time can be programmed for between 30 minutes to 24 hours. To cancel the selection release the button and then press it 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 02:30 and 24:00.
- ◆ 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 press the On/Off button and turn the washing machine off.
- ◆ The Delay function is not available for some programs, e.g. Drum Clean, Spin.

6. OPERATION

Mute Function

- ◆ When the machine is in the state of holding, pause or operation, press “Spin+ Favourite” buttons for 2 seconds, The display will show mute function fault icon. All the buzzing will be turned off except the alarms. When the machine is in the mute state, press “Spin+ Favourite” buttons for 2 seconds until mute function fault icon light off. All the buzzing will be activated.

Child lock

- ◆ To protect children the appliance has a Child Lock function. This will disable the program selector dial and the option buttons.
- ◆ After the program has started press the Temp and Spin at the same time for 3 seconds. The display will show SAFE ON and the Child Lock icon will flash.
- ◆ Follow the above steps to unlock this function.

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 whilst 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 press the Start /Pause button. It is important to check the level of the water inside the drum, and the water temperature, before trying to open the door

6. OPERATION

- ◆ If the door will not open 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 is safe to open the door press the Start / Pause button.
- ◆ The remaining program time on the display will flash. The door lock indicator will go out and the door can be opened.
- ◆ 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.

Favourite

- ◆ After selecting the program and setting each parameter and starting, long press the Favorite key for 3s to memorize the selected program, temperature, rotational speed and other related settings, and then the Favorite symbol lamp will be on.
- ◆ Under the circumstance that the Favorite lamp is not on, short press the Favorite key, then the program will be switched to the program memorized last time; and meantime, the temperature, rotational speed and other parameters will automatically change into the parameters memorized last time.
- ◆ At this moment, if switching the program or pressing other keys, the panel will display a new program and parameters, and the Favorite symbol lamp will be off.
- ◆ When the user uses it for the first time, if he/she has never long pressed the Favorite key to collect programs, he/she can short press the Favorite key and then the cotton linen program and its default settings will be collected by default.

6. OPERATION

6.4 ADDITIONAL FUNCTIONS

At standby state, press “Options” button to select additional function for current program. Select only one function for each press, and then corresponding icon flashes. After starting up, program cannot be changed.

Pre-wash

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

ExtraRinse

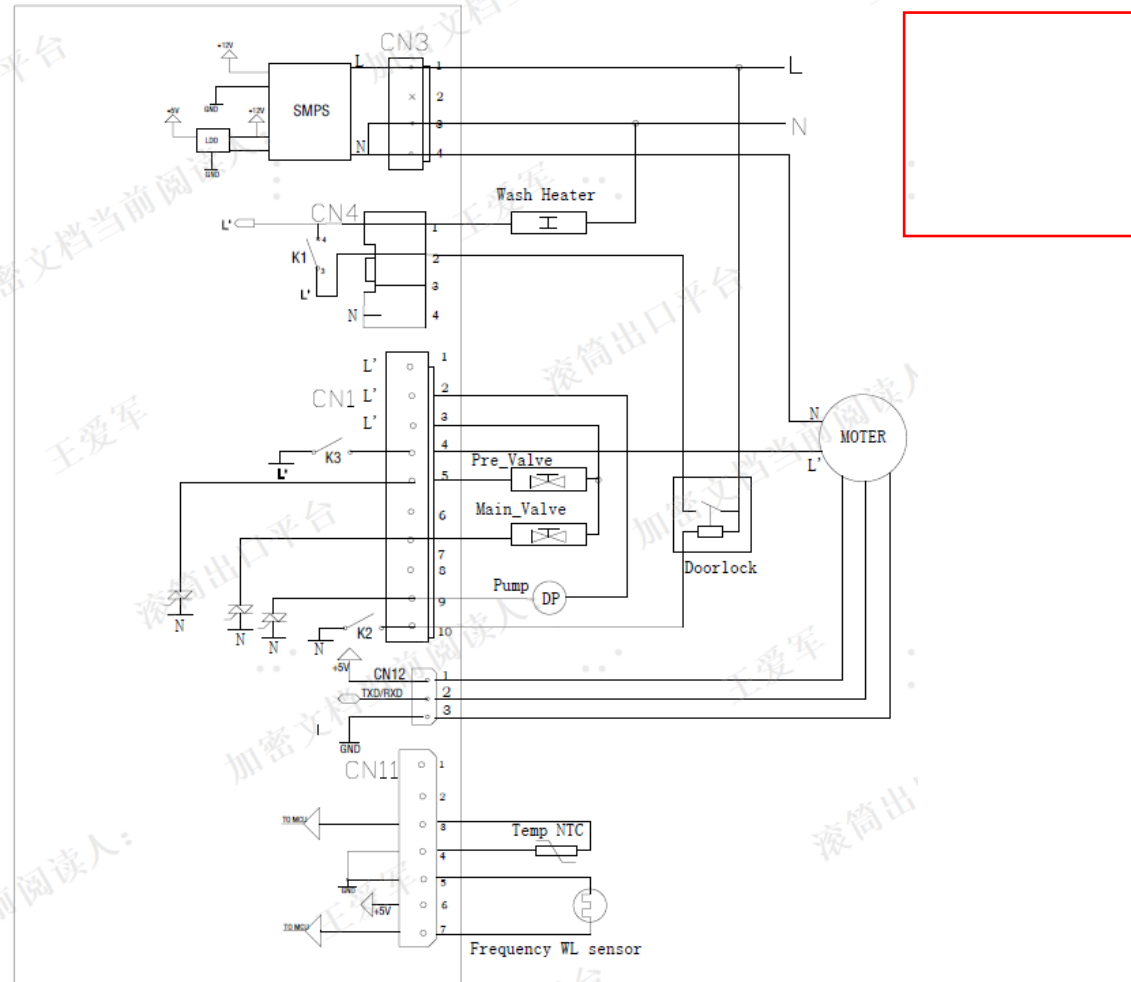
- ◆ After set the function of rinsing adding, the program runs the rinsing process once again before running the softening, and the total running time of the program increases accordingly.

Intensive

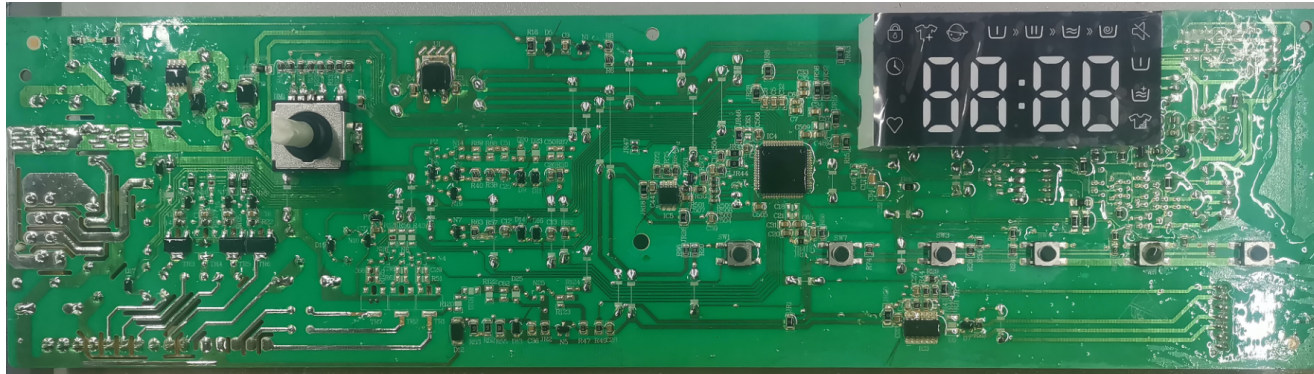
- ◆ The function can be selected to prolong washing time, strengthen washing effects and better remove stain.

7. WIRING DIAGRAM/PROGRAM CHART

7.1 WIRING DIAGRAM



7. WIRING DIAGRAM/PROGRAM CHART



7. WIRING DIAGRAM/PROGRAM CHART

7.2 PROGRAM CHART

	WASH										RINSE										SPIN					E N D	A U T O F F	Approx Working Time (Minutes)			
	PRE					MAIN					RINSE					EXTRA RINSE					SOFT										
	W - S	W A S H	D R A I N	I - S	A - D	W - S	H E A T	W A S H	D R A I N	I - S	A - D	W - S	R I N S E	D R A I N	I - S	A - D	W - S	R I N S E	D R A I N	I - S	A - D	W - S	R I N S E	D R A I N	S P I N	A - D	D - T		D - u		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		28	29	30
	60	※	60	240	60	120		※	60	240	60	120	※	60	240	60	120	※	60	240	60	120	※	60	※	60	60	60		30	
Allergy Steam		20						50					7					7					7		8						111
Baby Steam Care		20						65					6					6					6		8						142
Dark Wash		20						40					7					7					7		8						75
Sportswear		20						25					6					6					6		8						58
Down								32					7					7					7		6						65
20℃		20						60					11					11					11		11						110
Drum Clean								58															4		6						70
Spin																									9						10
Rinse +Spin													6					6					6		11						30
Quick 15'								6										4					4		3						15
Wool								35					4					4					4		6						55
Mix		20						85					4					4					4		8						118
Synthetics		20						90					4					4					4		7						128
Cotton		20						140					11					11					11		11						209
Eco40-60								171															5		12						196

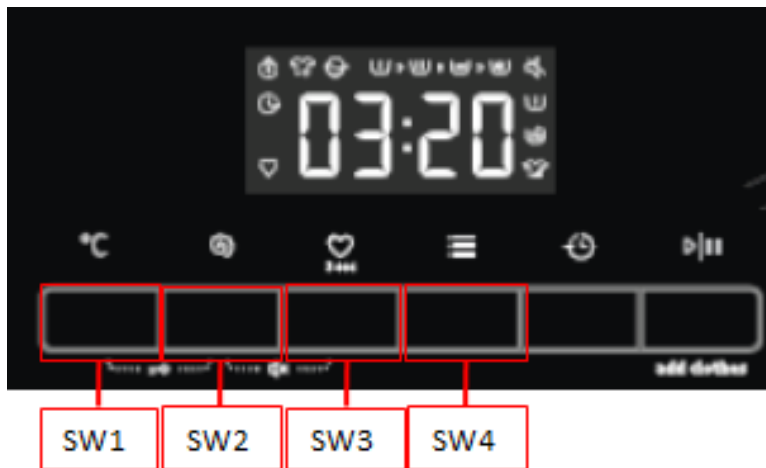
※ Water Supply: W-S Add Drain: A-D Intermittent Spin: I-S Disentangle: D-T
DOOR Unlock: D-U

Wash time is in minutes.

: Basic Cycle : Optional Cycle
Pre-Setting Time: Water Supply - 60 sec Drain - 60sec

The total working time will vary with the load size, water temperature and ambient temperature

8. TEST MODE



Enter the test program:

1. Rotate the selector on program Spin
2. Press SW1 + SW3 at the same time
3. The display shows TS1 (means that you can select the desired submenu / test program)

1.Test program 1:

Press button SW2

C0 On display - door lock ON

C8 On display - test keys / press all keys to continue the program

C1 On display - spray valve 4s ON, main valve 4s ON

C2 On display - all valves 7s ON when the water reaches the heating level, heater wash ON until it reaches 60 ° C or it is turned on for 15s, the motor ON 55rpm in both directions

C3 On display - The detergent injection pump and the softener are turned on for 5 seconds in turn. After the injection, the cold shower valve opens, the drain pump opens, and the cold shower valve closes after 5 seconds; the drying heating pipe starts to heat, the fan starts to work, and the heating pipe and 10 seconds later The fan stops working and drains to the empty bucket water level

C4 On display - pump ON, drum acceleration up to 1000 rpm for 115s (press SW3 to display revolutions on the display) / step of motor sound test

End wash

Test program 2: water circulation testing

Press button SW1

C0 On display - door lock ON

C1 On display - spray valve 4s ON, main valve 4s ON

C2 On display - all valves 7s ON when the water reaches the heating level, heater wash ON until it reaches 60 ° C or it is turned on for 15s, the motor ON 55rpm in both directions

8. TEST MODE

2.Select models:

Note: This operation must be done when replacing the control board

1. Turn on appliance ON/OFF key
2. Rotate the knob to spin program
3. Touch SW1+SW3 at the same time, TS1 is displayed
4. Press key SW3
5. Press key SW1, Select the corresponding model

Model parameter:

WFLE/MY/QE/QA/7012EVM/S/T	7r12
WFLE/MY/QE/QA/6012EVM/S/T	6r12
WFLE/MY/QE/QA/7014EVM/S/T	7r14

6. Press key Start/Pause , Save parameters and exit;
7. Power off;

3.Fault alarm query:

Fault alarm query: The control board can save the last 10 alarm codes in MUC for query. If the same fault alarm occurs continuously, only one will be saved. The query method is as follows: power on, press the power button to start, select the single dehydration program, and press the (SW1 + SW4) combination key for 1 second to enter the demonstration mode. The main nixie tube displays TS2 (no key input within 30s, exit the special mode, turn off), press the SW3 key to enter the alarm code query. The highest digit of the nixie tube displays the fault serial number, 10 from 0-9, and the lower three digits of the nixie tube display the fault code, Such as 0F01, 1F11, etc; Press SW1 / SW2 to turn the page forward / backward respectively. When it is adjusted to the oldest alarm, end is displayed and there is an invalid prompt tone (didi). When it is turned to the latest alarm, there is an invalid prompt tone (didi). No alarm code under the current serial number displays "——".

4.Operation cycle query:

Operation cycle query : power on, press the power button to start, select the single dehydration program, press the (SW1 + SW3) combination key for 1 second to enter the special mode, the main nixie tube displays TS1, and press the SW4 key to enter the developer mode, Press SW1 to switch parameters (the parameter adjustment interface circularly displays: version number of power board - version number of frequency conversion board - unbalanced parameter 1 - unbalanced parameter 2 - unbalanced parameter 3 - unbalanced parameter 4 - test function - cycle function - operation cycle) (the next one with operation cycle of H0).

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 troubleshooting. (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 electrostatic discharge plastic pack when delivering or keeping it.

9.2 ERROR MODE SUMMARY

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	Problem	Cause or remedy	Process (service technician)
F1	F1 on display.	• Water level is not reached. • The water level is controlled at all times during the process of filling the appliance. • If the washing level is not reached after 15 minutes, an error is displayed. • In case that appliance detects that the water level is not 0, the pump is activated. In case that error is still present after the draining, error is displayed. F01. • The water level frequency change is less than 300Hz after 3 minutes of water intake # Press the Start / Pause button. # Water tap. # Clean the filter on the inlet valve and inlet hose. # Check if appliance is leaking.	• Check pressure, water flow. • Electro valve. • Pressure sensor.
F03	F03 on display.	• No draining. • In case that appliance detects that the water level is not 0, the pump is activated. In case that error is still present after the draining, error is displayed. F03. • Drainage does not reach the set water level alarm within 9 minutes # Press the Start / Pause button. # Clean the filter. # Check wall siphon, clean it. # Check the pump turbine, clean it.	• Pump. • Electro valve. • Pressure sensor.

F04	F04 on display.	• The water temperature is not reached. • Heater fault. • An error occurs if the water temperature does not change by 3 ° C within 15 minutes. # Check water heating (during washing cycle touch the door glass with hand); if water is cold, heater shall be replaced.	• Heater. • NTC sensor. • Power supply unit.
F05	F05 on display.	• Temperature sensor in short circuit.	• NTC sensor.
F06	F06 on display.	• Motor spinning error. • In case, that the speed in the phase of spinning is 0 in the event of 2 seconds, appliance repeat the process.. • After six unsuccessful trials, an error is displayed. • In case that the motor speed can not be measured or it is less than 20 rpm, error is displayed.	• Motor. • Power motor control unit.
F07	F07 on display.	• Motor power supply unit temperature is to high. • In the case of an inverter motor, the error is indicated when the temperature of the power supply unit is higher than 150 ° C. • In case of universal motor, error occurs when the measured speed is greater than the set speed..	• Power motor control unit. • Power supply unit.
F08	F08 on display.	• Motor overcurrent. • An error occurs if the motor current exceeds 8A.	• Power motor control unit.
F09	F09 on display.	• Incorrect main voltage. • The mains voltage is not in the range (less than 200V or more than 400V). • If this failure occurs 30 times in a row, it will alarm and disconnect the relay. # Check the voltage level.	• Voltage level. • Power supply unit.

F10	F10 on display.	• Motor current lost. • In case there is no current through the motor winding after 4 seconds, an error is displayed. • Alarm after 30 consecutive occurrences.	• Motor. • Power motor control unit.
F11	F11 on display.	• After disconnecting the relay for 30 seconds, re-engage the relay and try to work normally; if this failure occurs continuously for 30 times, it will alarm and disconnect the relay.	• Power motor control unit. • Motor.
F12	F12 on display.	• Power supply unit microprocessor error. • Alarm after 30 consecutive occurrences	• Power motor control unit. • Motor.
F13	F13 on display.	• Door lock error. • Door do not lock. # Close the door and press Start button. Close the door and press start button; if the machine fails to start, close the door again, push harder and switch on the machine.	• Door lock. • Door pin. • The door. • Control unit.
F14	F14 on display.	• Door lock error. • Door not open after cycle ends. # Press the Start / Pause button. The program will try to open the door. (# Empty water from drum – use filter extension hose. # Clean the filter. # Check wall siphon, clean it. # Check the pump turbine, clean it.)	• Door lock. • Door pin. • The door. • Power supply unit.
F22	F22 on display.	• Communication error between the power supply unit and the motor power supply unit. • Error is displayed if the communication is not detected for 30 seconds. • If this communication failure occurs 3 times in a row, it will alarm. • Motor stops.	• Communication (conductors, connectors) between the power supply unit and the motor power supply unit. • Motor.

F23	F23 on display.	• Level sensor error. • Continuously detect for 5 seconds that the water level sensor is not connected properly, there is no frequency signal feedback, or the frequency signal is out of range (34k-45k). # Restart the program.	•Pressure sensor. •Condenser tank clogged. •Valve. •Pump. •Motor.
F24	F24 on display.	•Overflow •The error occurs when the drying process detects the overflow. •The pump is activated. #Press the Start/Pause button #Close the inlet valve	•Condenser tank clogged •Pressure sensor •Valves •Power supply unit
Unb	Unb on display.	• No fault. Unbalance warning. # We recommended washing large and small pieces of laundry together. # Installation of the appliance. # Remove transport screws. # Correct drum load. # Restart the program.	

Error	Problem	Cause or remedy	Process (service technician)
1	Appliance after connecting to the electricity doesn't operate.	# Check the outlet voltage [blnk]4-027-1986[/blnk]. # Check if the appliance is switch ON (ON/OFF button).	•There is voltage in the circuit. •Power switch. •Control unit.
2	Appliance after connecting to electricity network, does not work.	# Check the outlet voltage. # Check if the appliance is switch ON (ON/OFF button).	•There is voltage in the circuit. •Power switch. •Control unit.
3	Appliance does not work, lights does not turn on, does not start	# Check the outlet voltage. # Check if the appliance is switch ON (ON/OFF button).	•There is voltage in the circuit. •Power switch. •Control unit.
4	Circuit breaker turns off.	• Improper electrical installation. # Turn on the FID and reconnect the appliance. # Turn on the FIT and connect another device.	•Wiring harness damaged. •Control unit. •Heater. •Motor.
5	Switch off the fuse switch.	• Improper electrical installation. • The appliance is in short circuit. # Turn on the fuse and reconnect the appliance. # Turn on the fuse and connect another appliance.	•Wiring harness damaged. •Heater. •Motor.
6	Drum does not rotate.	• Repair is carried out by authorized Servis.	• Foreign object between tube and drum. •Wiring harness damaged. •Belt. •Brushes. •Motor.
7	Appliance does not rotate the drum.	• Repair is carried out by authorized Servis.	• Foreign object between tube and drum. •Belt. •Brushes. •Motor.
8	Drum doesn't rotate.	• Repair is carried out by authorized Servis.	• Foreign object between tube and drum. •Belt. •Brushes. •Motor.
9	The motor is not running.	# Check the outlet voltage. • Repair is carried out by authorized Servis.	• Foreign object between tube and drum. •Control unit. •Wiring harness damaged. • Belt. • Brushes. • Motor.
10	The appliance moves or vibrates during operation.	• Incorrect load. • The laundry is not properly sorted. • The appliance is not positioned correctly. # Check if transport brackets were removed. # Check levelling, positioning of the appliance. # It is recommended to wash smaller and larger pieces of laundry together.	• Check the appliance. •voltage. •Springs. •Shock absorber.
11	Door can not be opened.	• For safety reasons, the appliance does not allow opening the door. • To high water level in drum. • Water temperature to high. # Drain water, use a pumping or centrifuging program. # Wait that water temperature decrease, then drain water out. # If door still doesn't open use mechanical key to open it.	• Door hinge. • Door lock. • Pressure sensor. • The door. • Control unit. • heater(NTC)

12	The appliance does not drain / eject water, the water remains in the drum.	# Clean the filter. # Clean drain or siphon. # Check the voltage (too low voltage).	• Filter. •Outlet hose. •Pump. •Control unit. •Check the voltage (too low voltage).
13	Drops, leaks, drip, water flows under the machine.	# The filter is not inserted correctly or tightened properly. # Feed pipe is not properly tightened to the appliance or the tap. # Outlet pipe fell on the floor. # The drain hose is not well attached to the siphon. # Clean door seal. # Clean door glass.	• Check the appliance.
14	It smells / smells burnt.	• An unpleasant smell can be caused by the winding of the electric motor, which disappears after several washing cycles. # Check the socket. # Check the plug.	• Check the appliance. • Gap between door seal and drum. • Motor.
15	Washing machine tearing the laundry.	# Check the surface of the drum with a silk cloth. # Recommended washing of delicate laundry, small pieces in the bag.	•Drum. •Door seal.
16	To fast / immediately takes the softener.	• Too high level of the softener in the soap dispenser [blnk]4-027-1985[/blnk]. • Aqueous stone on the cover of the soap dispenser. • Rough closing of the soap dispenser drawer. • Too much pressure. # Clean the detergent dispenser. # Add softener in accordance with the instructions.	• Hose valve – soap dispenser. • Same water flow on both valves. • Valves. • Water jet. • Detergent dispenser.
17	Fabric softener is not dispensed.	# Clean the detergent dispenser, siphon [blnk]4-027-1982[/blnk]. # Concentrated softeners must be properly diluted.	• Hose valve – soap dispenser. • Same water flow on both valves. • Control water dosage. • Valves. • Detergent dispenser.
18	Drum hardly rotate.	• Repair is carried out by authorized Servis.	• Drum support. • Bearings. • A foreign object in tube. • Belt. • voltage. • Control unit.
19	Unpleasant smell of laundry.	• If you often wash your clothes at low temperatures and with liquid detergents, germs might develop; this might also be the cause of unpleasant smell in the drum or of the clothes. # To prevent this, it is recommended to run the program Cotton 95° C without a laundry at least once a week and to use powder laundry detergent, or to run a self-cleaning program. # Once a week, use the washing program with the vinegar.	• Check the appliance.
20	Laundry is still wet, washing machine doesn' t drain.	# Clean filter. # Increase the amount of laundry. # We recommended washing large and small pieces of laundry together.	•Drain pump.

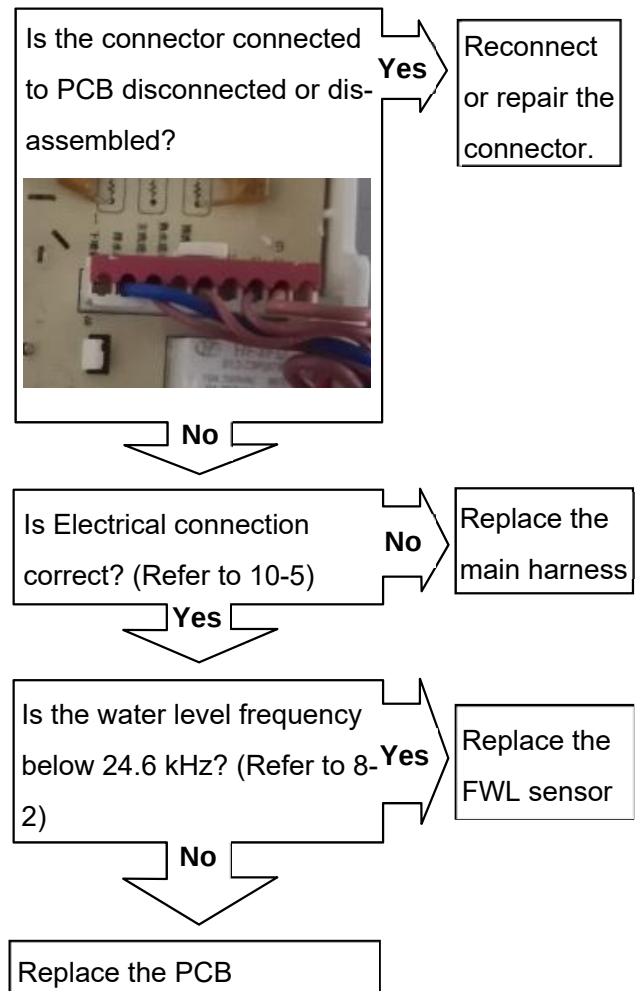
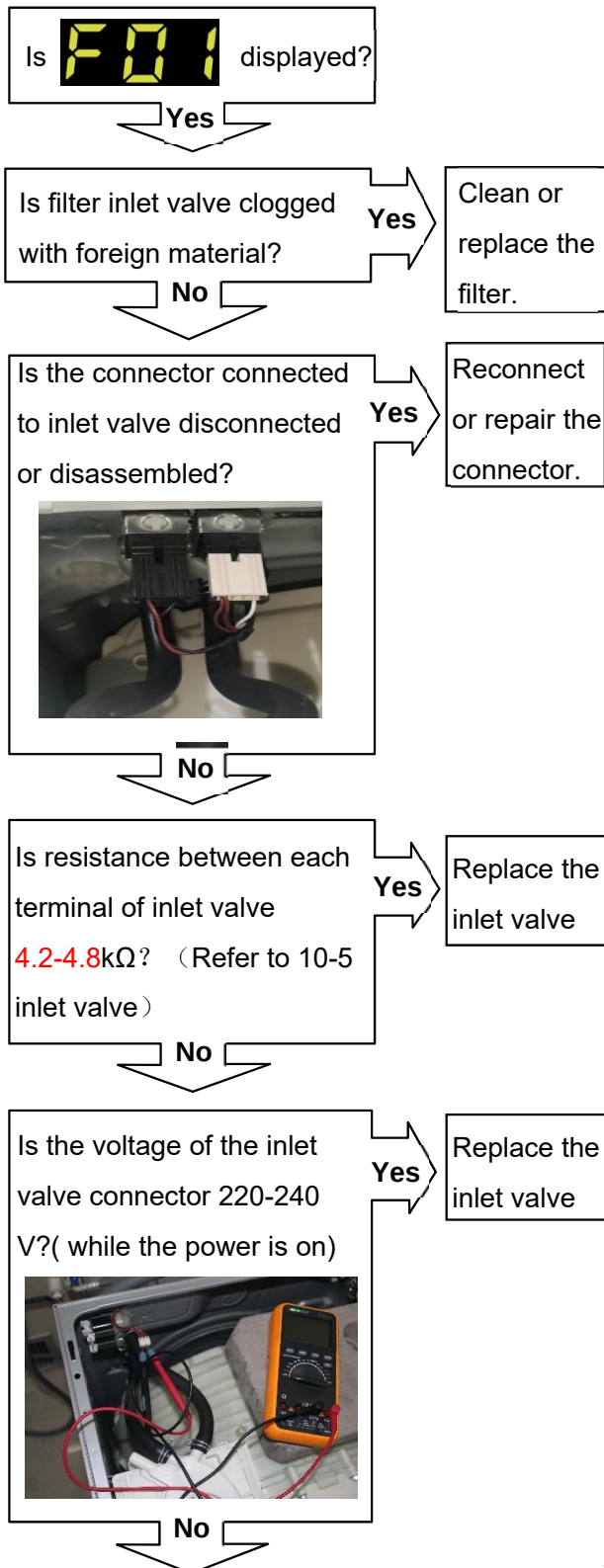
21	Washing machine rumbling, load in centrifuge.	# Check the installation of the appliance. # Clean filter.	• Check the appliance. • Drum support. • Shock absorbers. • Weights. • Motor. • Bearings.
22	Loud operation of appliance, bearings, squealing, unusual sounds during operation.	• Vibration, movement of the appliance around the room and loud operation can be caused by incorrect adjustment of the adjustable feet. Improper alignment of adjustable feet is not a repair in warranty. • During operation, the sound of hitting hard parts of the laundry against the drum can be heard. • A louder sound can also be emitted by the pump. The reason of loud sound during the pump operation can be in case if filter or drain pump propeller is clogged. # Check the installation of the appliance. # Clean filter. # Clean propeller of drain pump.	• Check the appliance. • Drain pump. • Shock absorbers. • Weights. • Motor. • Bearings.
23	Door can not be opened, do not open.	• The appliance detected that there was water in the drum. Doors for security reasons remain locked. • In case there is water in the drum, run the spin program. # Clean filter. # Disconnect the plug from the main and connect it again. # Mechanical opening of the door, string - filter.	•Outlet hose. • Tub - filter hose clogged. •Pump. •Door lock. •The door.
24	Doors can not be closed, they do not close.	• Repair is carried out by authorized Servis.	•Door lock. •The door. • voltage. • Control unit.
25	The filter can not be pulled out.	• The foreign object mechanically blocks the filter. # Try to pull out the filter with a little more force.	• Filter
26	Foam in the soap dispenser, a lot of foam.	# Correct dosing of the powder according to the dirt and quantity of laundry. # Reduce the dosage of the powder (pre-concentrated detergents). # Run self-cleaning program at least 2x, without additional cleaning agents.	
27	Too much foam.	• Excessive dosing of the washing powder may be the reason for the excessive amount of foam in the appliance. • In case the device detects too much foam in the appliance, the program stops for some time and continues after a certain elapsed time. # Reduce the dosage of the powder (pre-concentrated detergents). # Run self-cleaning program at least 2x, without additional cleaning agents.	
28	Washing program is longer than expected.	• Low water temperature. • Low power supply. • Low water pressure. •Pumping error. • Incorrect drum load. • Too much foam. # We recommended washing large and small pieces of laundry together.	• Check the appliance.
29	Under the appliance is wet / water is leaking, dripping.	• Repair is carried out by authorized Servis.	• Check the appliance.
30	The appliance does not start, the display flashes.	# Check if the door is closed. # Check if the water supply valve is open. # Press the Start / Pause button.	

31	Traces of fabric, dirt on the laundry.	• After each wash, some traces of fabric, dirt can remain in the inner side of the door seal. • These residues can be partially decomposed in the next wash and leave traces on the laundry. # After each wash, the door seal must be cleaned, as shown in the user manual. # Clean the groove of the door seal. # Launch a short program without laundry. # Self cleaning program must be run. # Clean filter. # Appropriate temperature selection. # The appropriate sorting of the laundry regarding the color and fabric. # Turn the delicate laundry outwards.	• Dirt in JET pipe. • Door seal. • A foreign object in tube. • Inlet hose filter. • Drum.
32	The device does not rotate or does not turn / rotate the drum.	# Check if the door is closed.	• Belt. • Motor.
33	The appliance stopped working during program.	• In case the device detects too much foam in the appliance, the program stops for some time and continues after a certain elapsed time. • If the appliance stops and the display flashes during operation. # Press the Start / Pause button. # Check if the door is closed. # Observe the amount of dosing of the powder and softener written by the manufacturer.	
34	After washing the detergent / washing powder residue in the soap dispenser drawer.	# Follow the instructions for use to maintain the machine. # Check that you have set the locking position for the liquid or hard powder correctly. # Check if the inlet hose is clogged.	• Inlet hose. • Valves. • Detergent dispenser.

9. TROUBLESHOOTING

9.3 TROUBLESHOOTING WITH ERROR

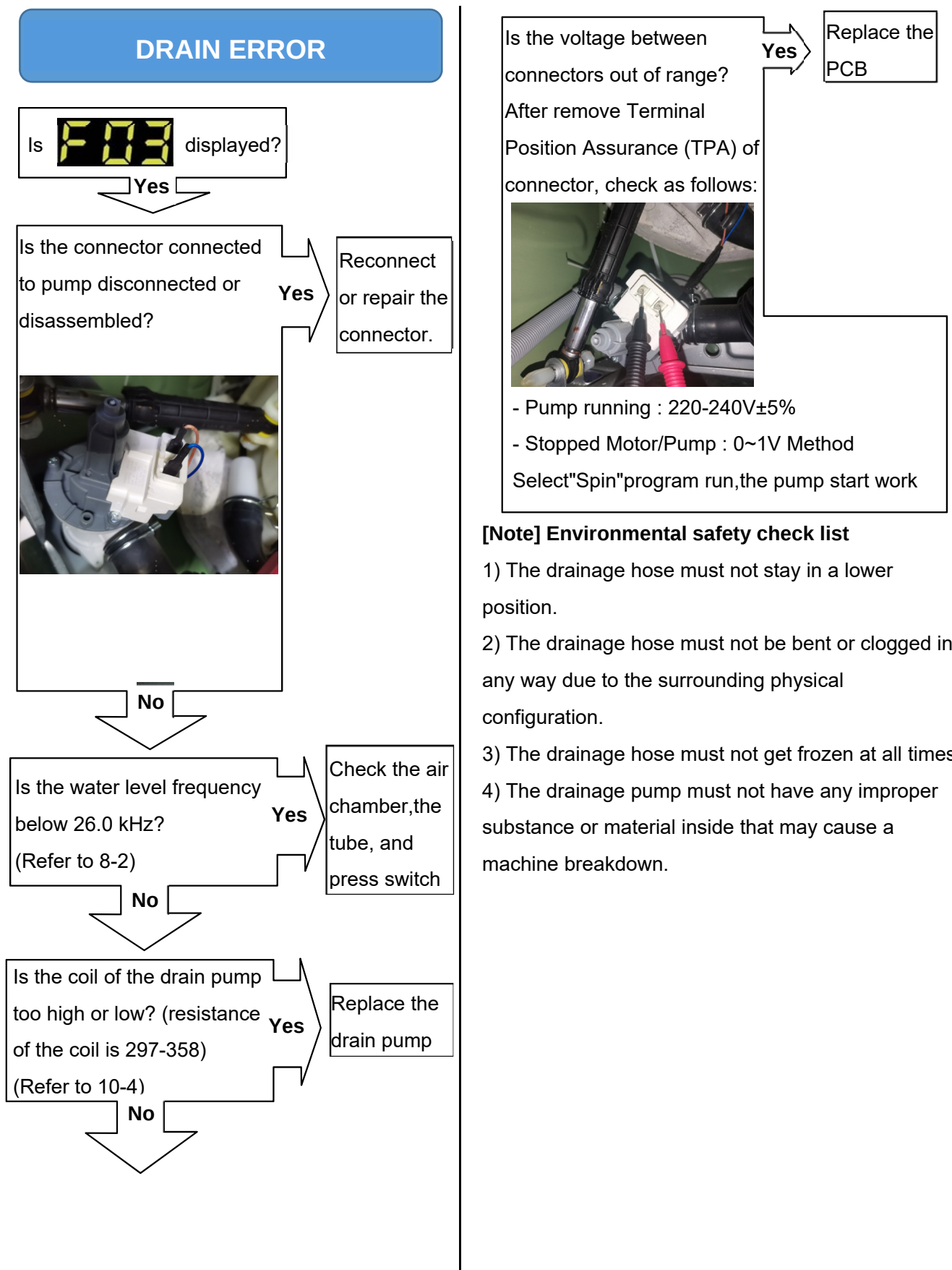
WATER INLET ERROR



[Note] Environmental safety check list

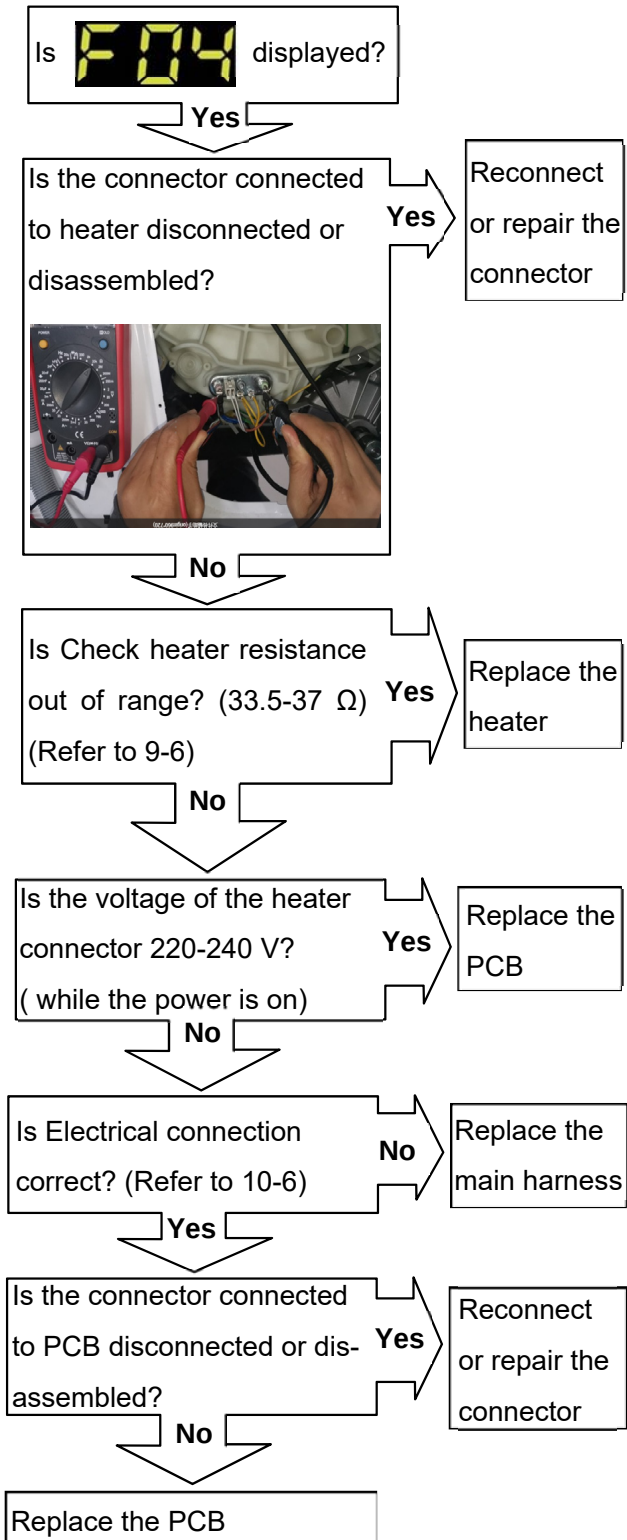
- 1) No water tap leakage
- 2) No water tap freeze
- 3) No entanglement of water supply hose
- 4) No water shortage
- 5) No shrinkage on water supply hose due to a possible misuse of hot and cold water
- 6) No water supply hose leakage

9. TROUBLESHOOTING



9. TROUBLESHOOTING

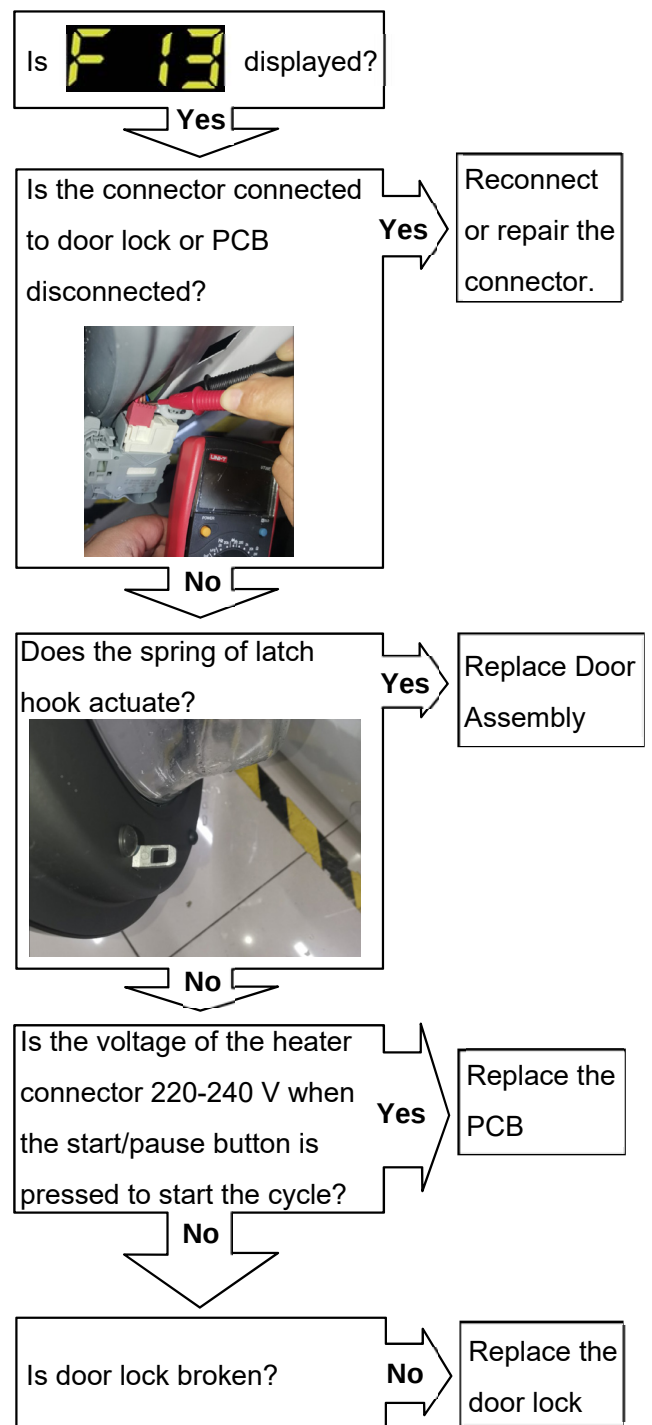
HEATING ERROR



[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.

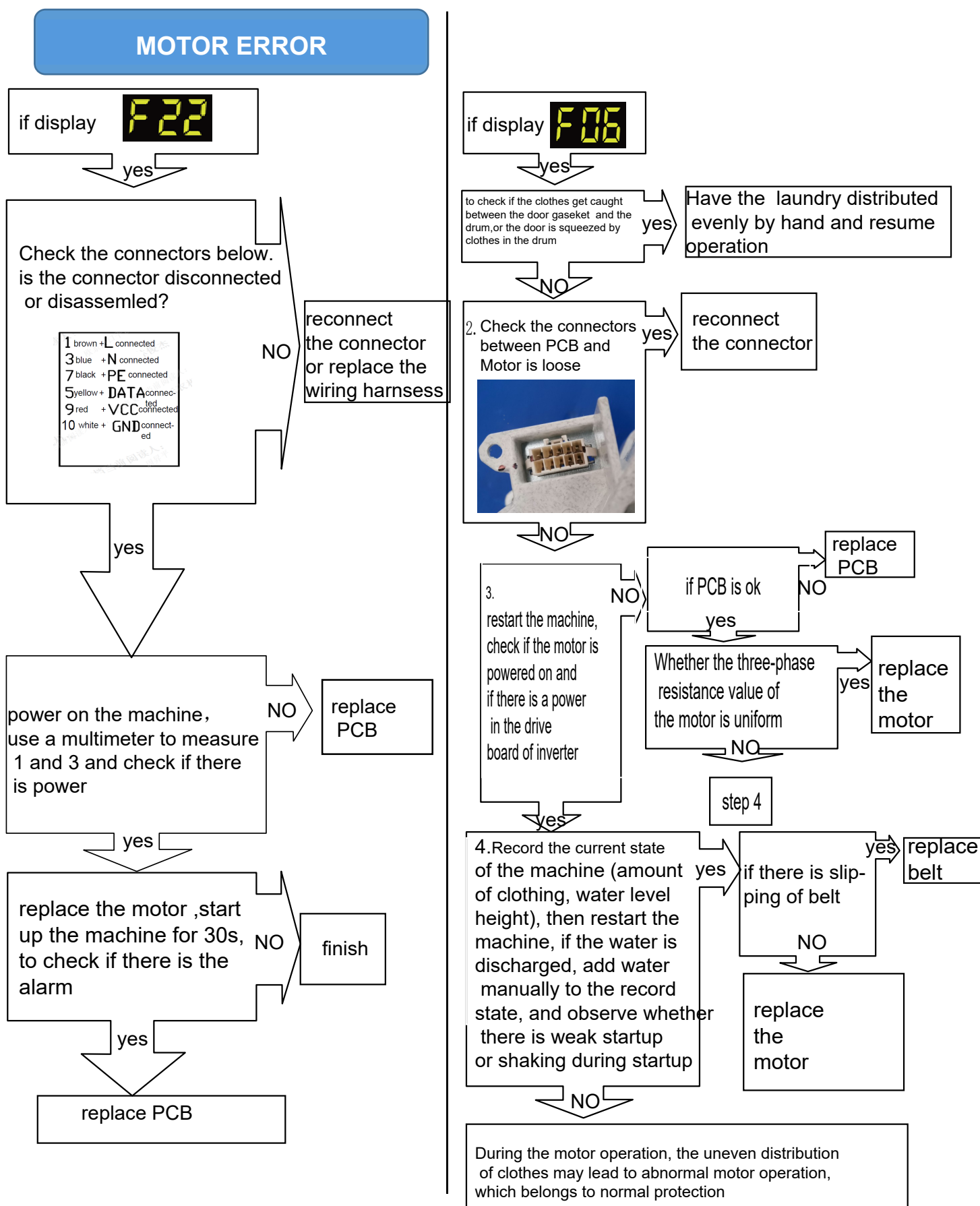
DOOR LOCK ERROR



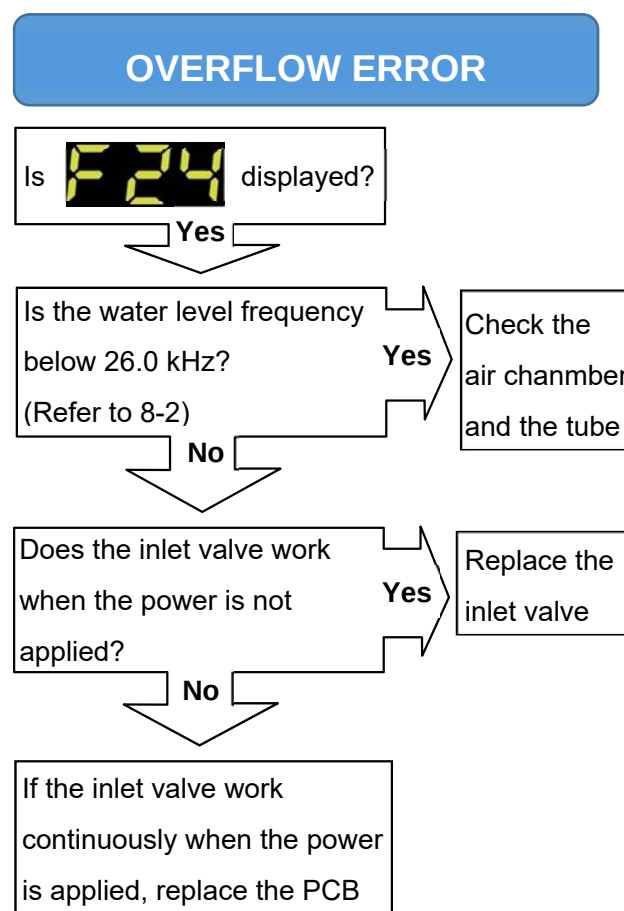
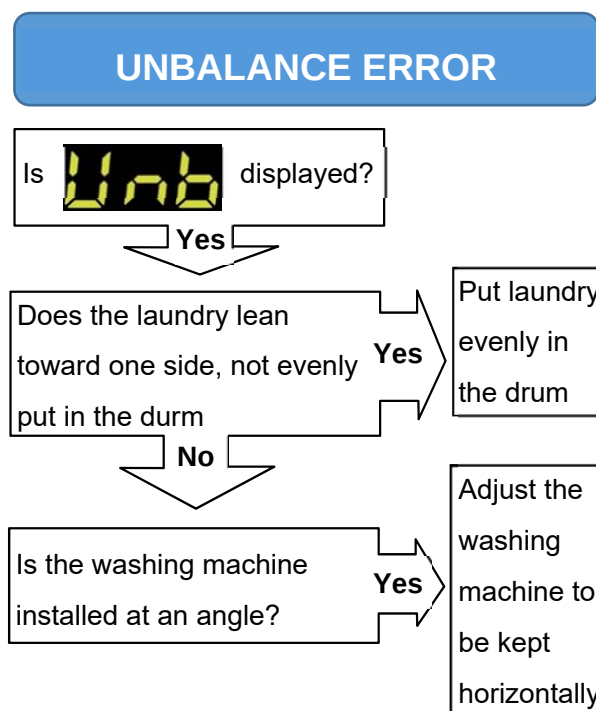
[Note] Environmental safety check list

- 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. TROUBLESHOOTING



9. TROUBLESHOOTING

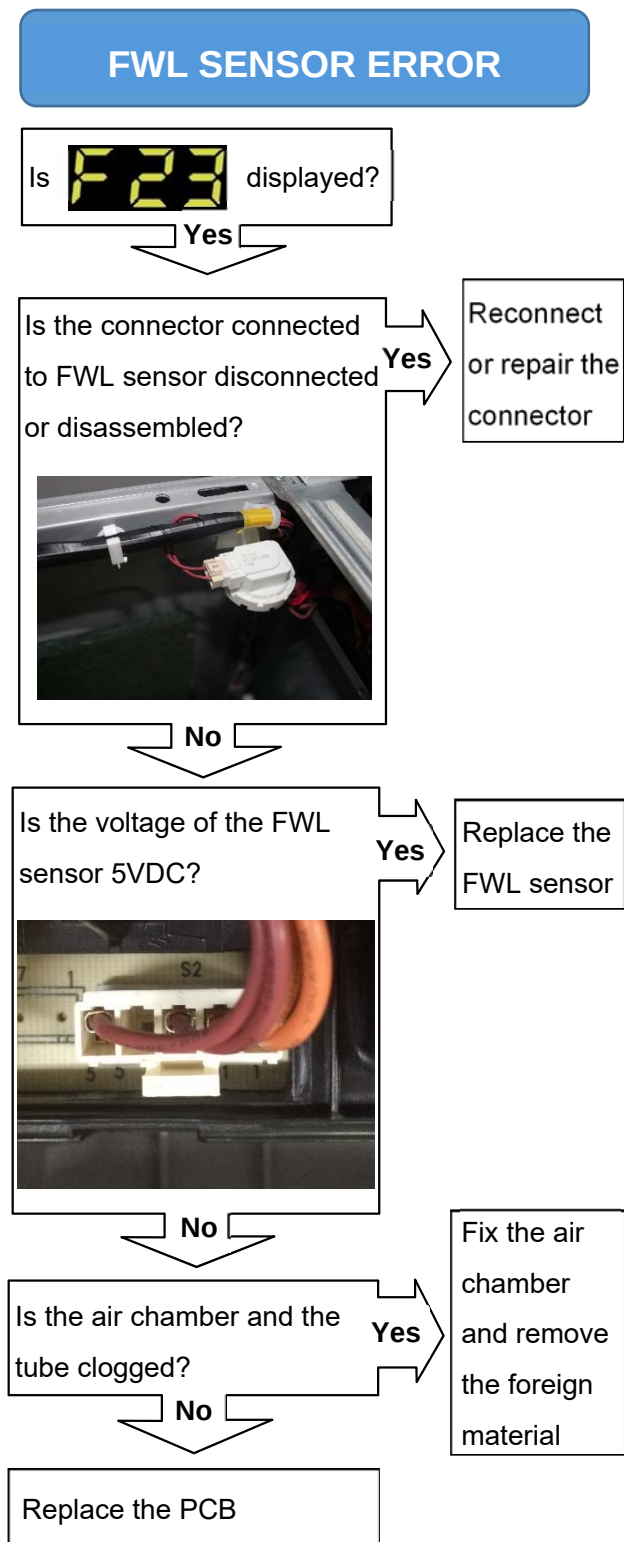


[Note] Environmental check list:

- 1) Removal of transportation-based fixed bolt.
- 2) There may be too much clothes, which can cause tangles in the washing process. Take the clothes out, shake them up and put them back.
- 3) Clothes may be too light, Put 1 or 2 towels or similar clothes inside and choose the single spin mode to dry again.
- 4) It may be that the clothes is too heavy, such as a blanket that is too big and has a strong water absorption. When there are too many large clothes such as towels and blankets, please reduce some of them.
- 5) The machines may be located on uneven ground. Change the placement position, and adjust the foot to level and fix the washing machine.

If the user does not accept according to the above guide, and the speed cannot be increased in the spin program, the spin time is long, the clothes are not spin well, or "UNB" alarms.

9. TROUBLESHOOTING

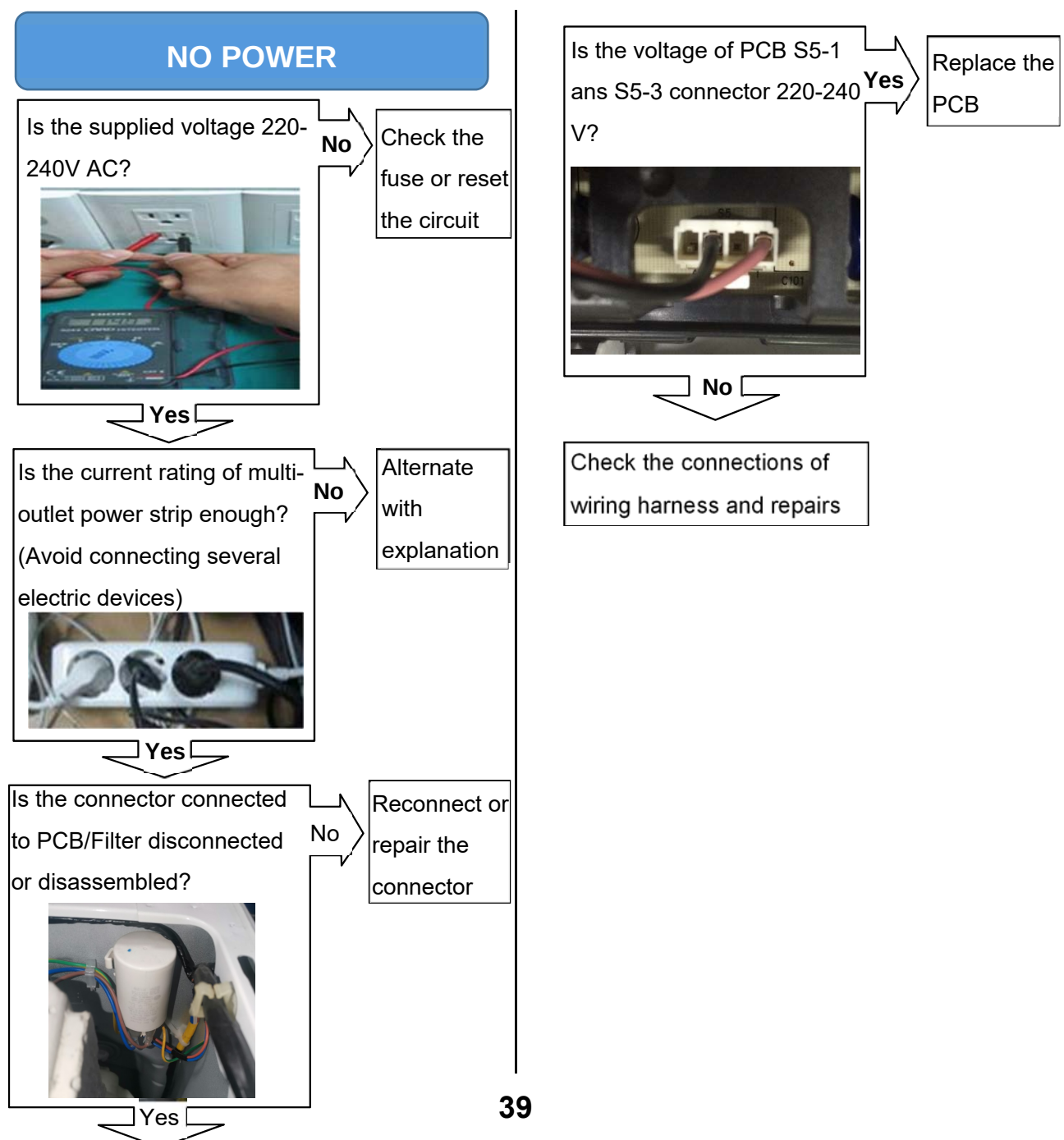


9. TROUBLESHOOTING

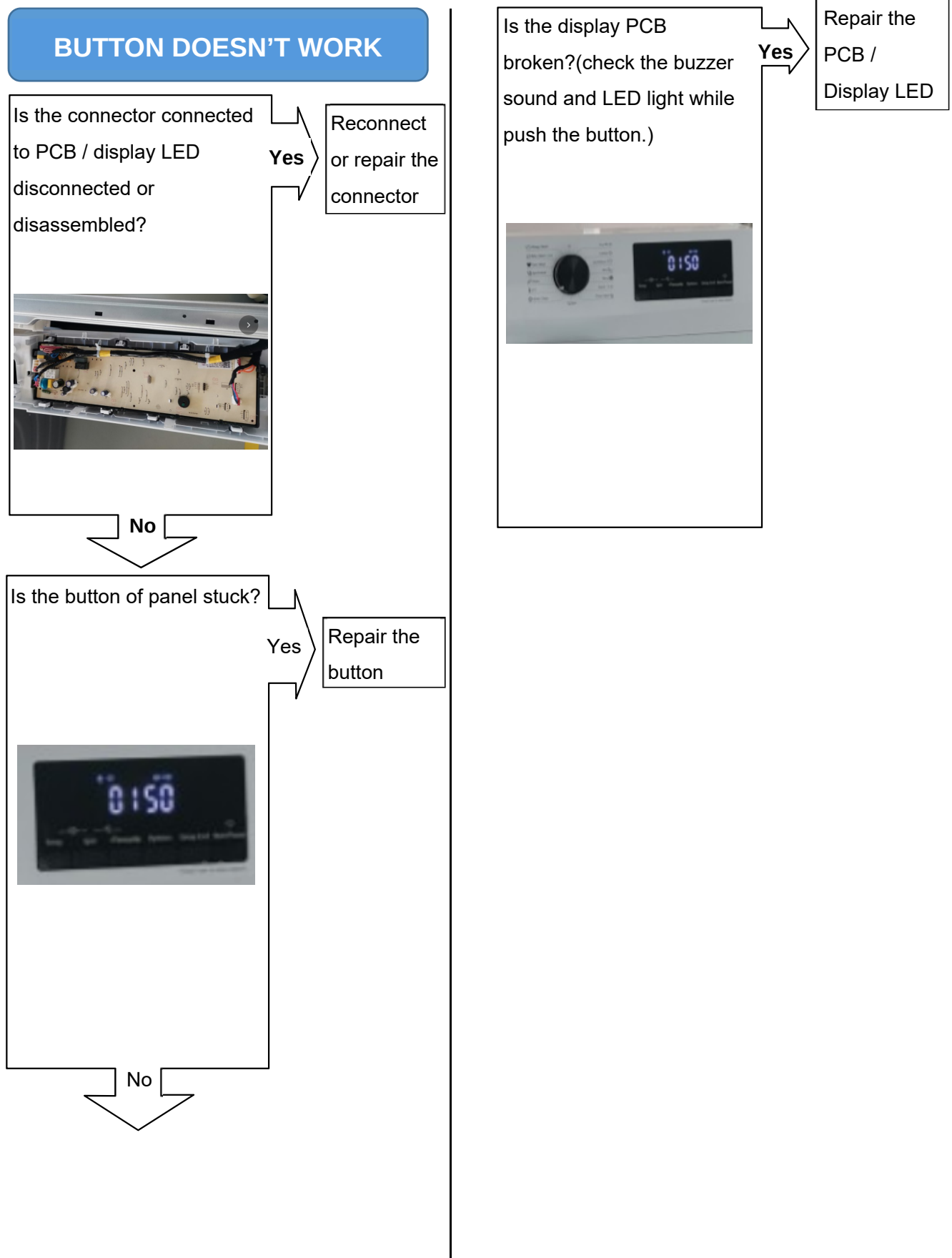
9.4 TROUBLE SHOOTING ELSE

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.



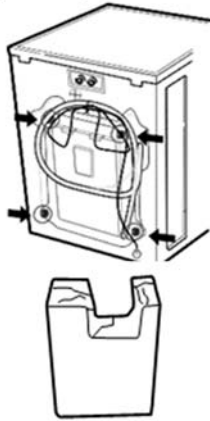
9. TROUBLESHOOTING



9. TROUBLESHOOTING

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

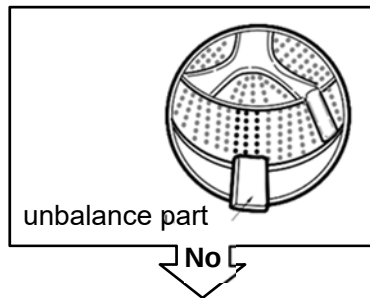
Move the washer or reinforce the floor.

Check if the washer is perfectly level as follows:

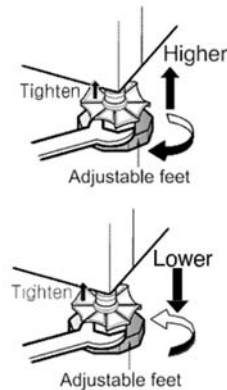
1. Check the leveling of the washer with a level and check that the washer is stable.



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.



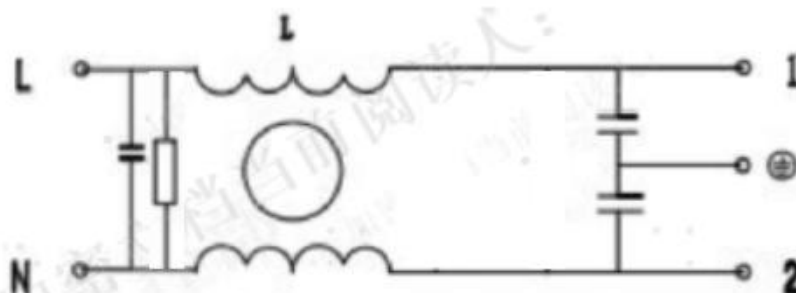
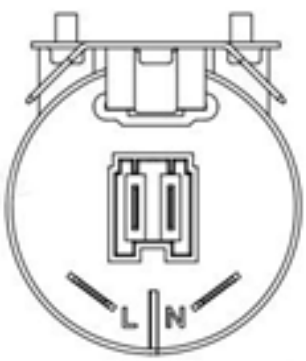
If it is not stable, adjust feet accordingly. After the washer is level, tighten the lock nuts up against of the base of the washer. All lock nuts must be tightened.



10. COMPONENT TESTING INFORMATION

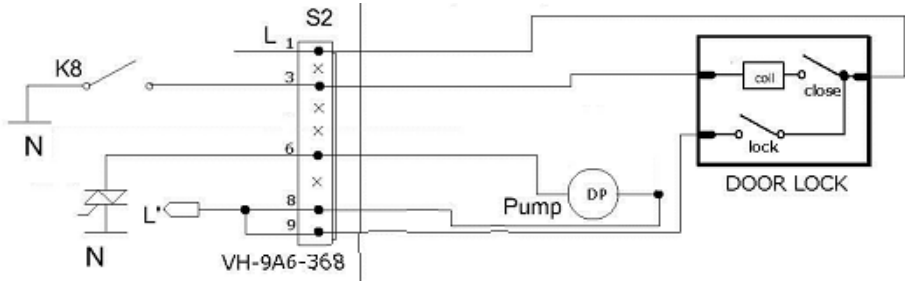
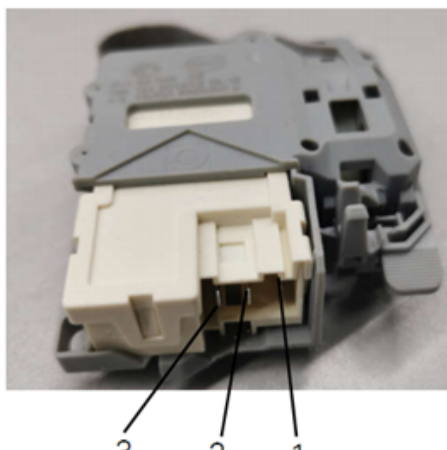
CAUTION: When Resistance (Ohm) checking the Component, be sure to turn the power off, and do voltage discharge sufficiently.

10.1 FILTER

Wiring diagram	Circuit in the PCB / Wiring Diagram 															
Test points and result	 <table><tr><th>Test Points</th><th>Result</th><th>Remarks</th></tr><tr><td>L-1</td><td>0Ω</td><td></td></tr><tr><td>L-2</td><td>680KΩ</td><td></td></tr><tr><td>N-1</td><td>680KΩ</td><td></td></tr><tr><td>N-2</td><td>0Ω</td><td></td></tr></table>	Test Points	Result	Remarks	L-1	0Ω		L-2	680KΩ		N-1	680KΩ		N-2	0Ω	
Test Points	Result	Remarks														
L-1	0Ω															
L-2	680KΩ															
N-1	680KΩ															
N-2	0Ω															

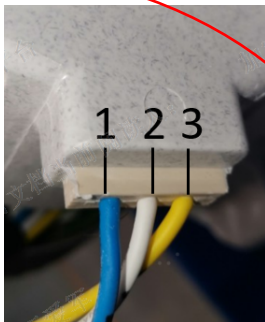
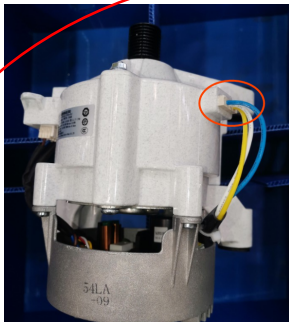
10. COMPONENT TESTING INFORMATION

10.2 DOOR LOCK

Wiring diagram	 Circuit in the PCB / Wiring Diagram												
Function	1.Door lock: After press down the “Start/pause” key, the MCU will send out an order to close the door, the MCU controls the door locks L and N to connect. 2. 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.												
Test points and result	 <table><tr><th>Test Points</th><th>Result</th><th>Remarks</th></tr><tr><td>1-2</td><td>0Ω</td><td></td></tr><tr><td>2-3</td><td>195 ±25Ω</td><td>At 77°F (25°C)</td></tr><tr><td>1-3</td><td>220-240V</td><td>Voltage Input</td></tr></table>	Test Points	Result	Remarks	1-2	0Ω		2-3	195 ±25Ω	At 77°F (25°C)	1-3	220-240V	Voltage Input
Test Points	Result	Remarks											
1-2	0Ω												
2-3	195 ±25Ω	At 77°F (25°C)											
1-3	220-240V	Voltage Input											

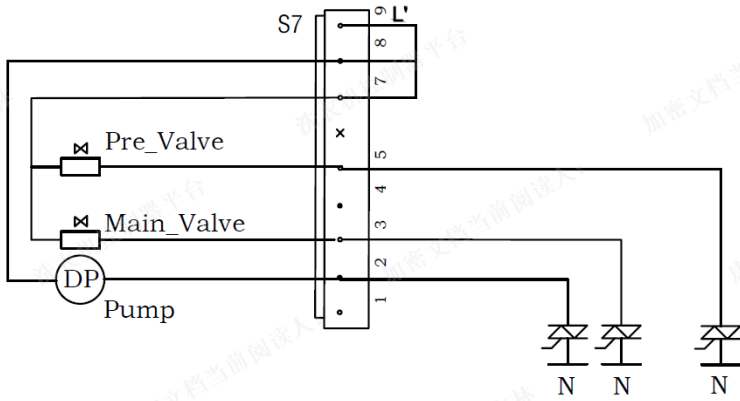
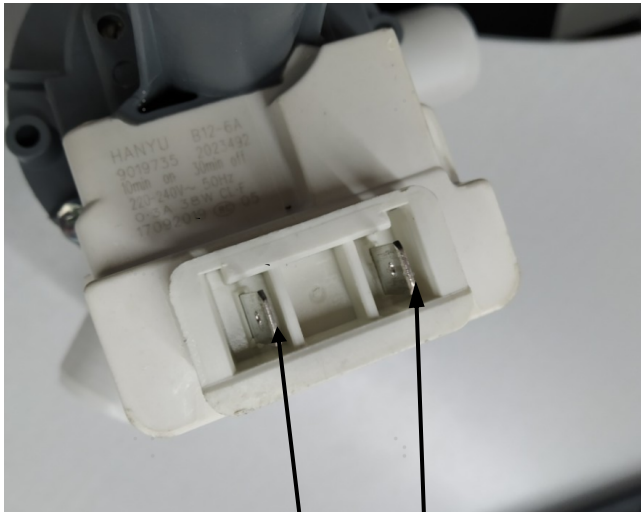
10. COMPONENT TESTING INFORMATION

10.3 MOTOR

Wiring diagram	Motor <table><tr><td>5</td><td>10</td></tr><tr><td>4</td><td>9</td></tr><tr><td>3</td><td>8</td></tr><tr><td>2</td><td>7</td></tr><tr><td>1</td><td>6</td></tr></table><table><tr><td>10</td><td>M-10/S2-3</td><td>GND</td></tr><tr><td>9</td><td>M-9/S2-1</td><td>+5V</td></tr><tr><td>8</td><td></td><td></td></tr><tr><td>7</td><td>M-7/</td><td>BGND</td></tr><tr><td>6</td><td></td><td></td></tr><tr><td>5</td><td>M-5/S2-2</td><td>COM</td></tr><tr><td>4</td><td></td><td></td></tr><tr><td>3</td><td>M-3/C-2</td><td>N</td></tr><tr><td>2</td><td></td><td></td></tr><tr><td>1</td><td>M-1/S4-3</td><td>L</td></tr></table>  Circuit in the PCB / Wiring Diagram	5	10	4	9	3	8	2	7	1	6	10	M-10/S2-3	GND	9	M-9/S2-1	+5V	8			7	M-7/	BGND	6			5	M-5/S2-2	COM	4			3	M-3/C-2	N	2			1	M-1/S4-3	L
5	10																																								
4	9																																								
3	8																																								
2	7																																								
1	6																																								
10	M-10/S2-3	GND																																							
9	M-9/S2-1	+5V																																							
8																																									
7	M-7/	BGND																																							
6																																									
5	M-5/S2-2	COM																																							
4																																									
3	M-3/C-2	N																																							
2																																									
1	M-1/S4-3	L																																							
Function	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.																																								
Test points and result	the relationship between the line and the PCB  <table><tr><th>Test points</th><th>Result</th><th>Remarks</th></tr><tr><td>1-2</td><td>3.3 (1± 5%) Ω (25℃)</td><td></td></tr><tr><td>1-3</td><td>3.3 (1± 5%) Ω (25℃)</td><td></td></tr><tr><td>2-3</td><td>3.3 (1± 5%) Ω (25℃)</td><td></td></tr></table>	Test points	Result	Remarks	1-2	3.3 (1± 5%) Ω (25℃)		1-3	3.3 (1± 5%) Ω (25℃)		2-3	3.3 (1± 5%) Ω (25℃)																													
Test points	Result	Remarks																																							
1-2	3.3 (1± 5%) Ω (25℃)																																								
1-3	3.3 (1± 5%) Ω (25℃)																																								
2-3	3.3 (1± 5%) Ω (25℃)																																								

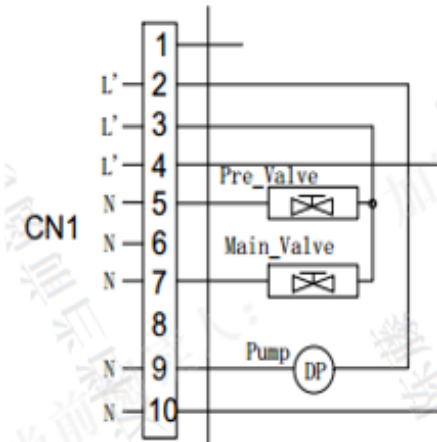
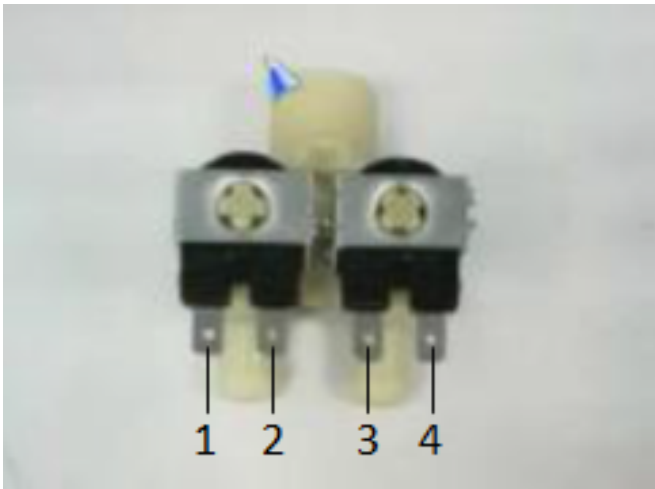
10. COMPONENT TESTING INFORMATION

10.4 PUMP

Wiring diagram	Circuit in the PCB / Wiring Diagram 						
Function	The pump are used to drain the tub and to circulate the water						
Test points and result	 12 <table><tr><th>Test points</th><th>Result</th><th>Remarks</th></tr><tr><td>1-2</td><td>325±10%Ω</td><td></td></tr></table>	Test points	Result	Remarks	1-2	325±10%Ω	
Test points	Result	Remarks					
1-2	325±10%Ω						

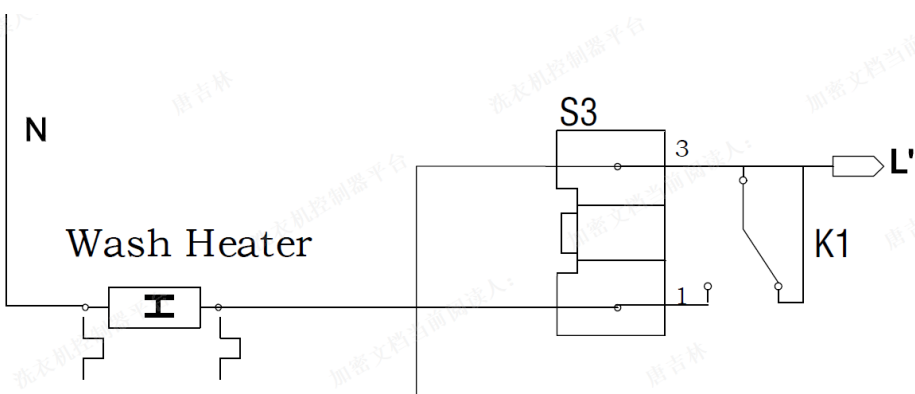
10. COMPONENT TESTING INFORMATION

10.5 INLET VALVE

Wiring diagram										
Function	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.									
Test points and result	 <table><tr><th>Test points</th><th>Result</th><th>Remarks</th></tr><tr><td>1-2</td><td>4.0-5.0KΩ</td><td>Pre_Valve</td></tr><tr><td>3-4</td><td>4.0-5.0KΩ</td><td>Main_Valve</td></tr></table>	Test points	Result	Remarks	1-2	4.0-5.0KΩ	Pre_Valve	3-4	4.0-5.0KΩ	Main_Valve
Test points	Result	Remarks								
1-2	4.0-5.0KΩ	Pre_Valve								
3-4	4.0-5.0KΩ	Main_Valve								

10. COMPONENT TESTING INFORMATION

10.6 HEATER

Wiring diagram							
Function	The wash heater is designed to raise the wash water to the desired temperature selection during certain wash cycles.						
Test points and result	 <table><tr><th>Test points</th><th>Result</th><th>Remarks</th></tr><tr><td>1-2</td><td>35.3±5%Ω</td><td></td></tr></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.

11.1 CONTROL PANEL ASM



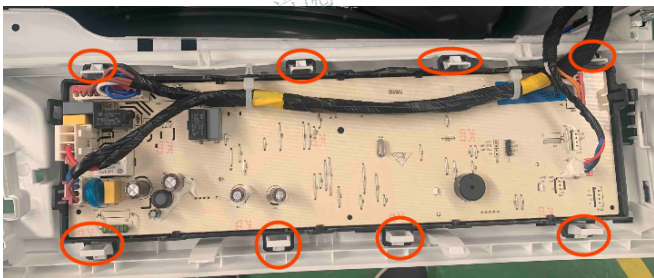
1.Remove worktop and unscrew 2 screws on control panel

2.Pull out the detergent box, remove 3 screws, which are attaching the control unit with soap dispenser.

3.Lift soap dispenser housing a little and remove the control panel.



4.Remove user interface with housing from the control panel in the way that you release latches.



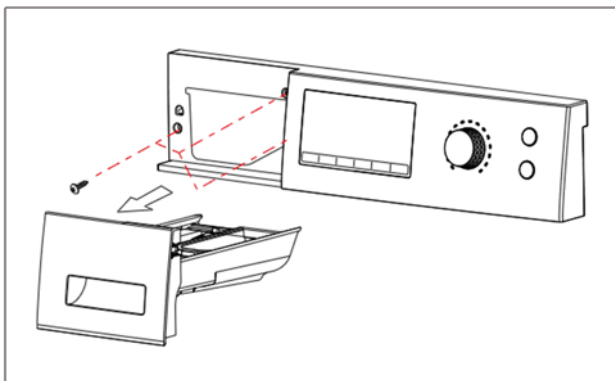
5.Remove user interface from control panel in the way that you release latches.



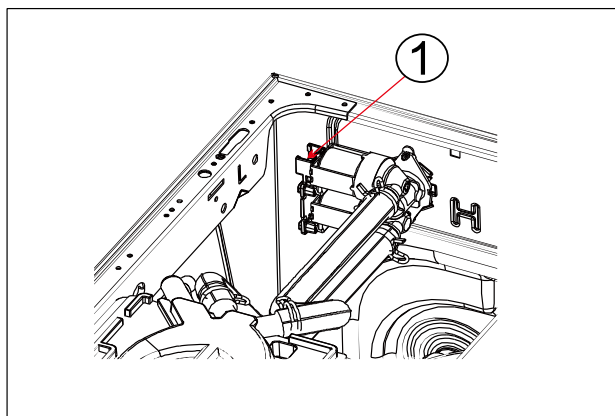
6.Replace control unit.

11. DISASSEMBLY INSTRUCTIONS

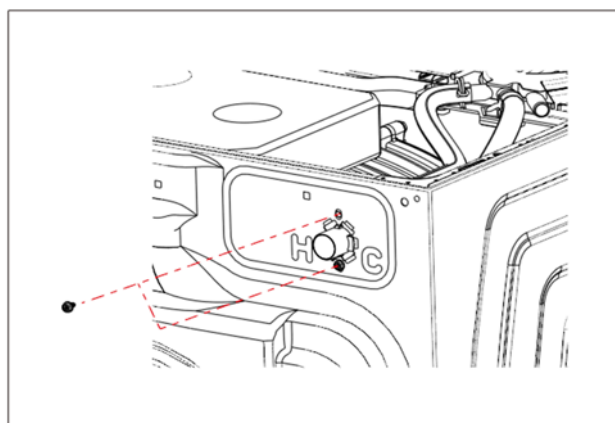
11.2 DISPENSER ASM



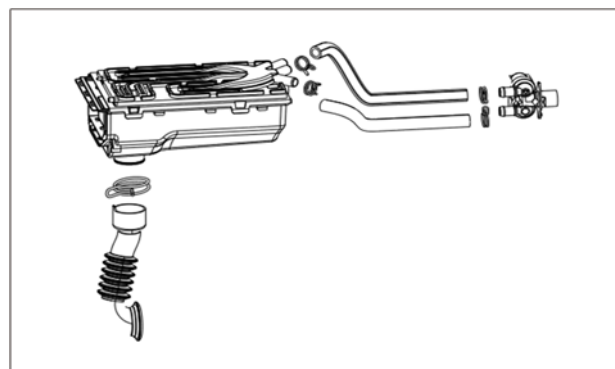
1. Disassemble the top panel
2. Pull out the drawer
3. Unscrew 3 screws as shown



4. Disconnect the double_valve connector from main harness as ① shown



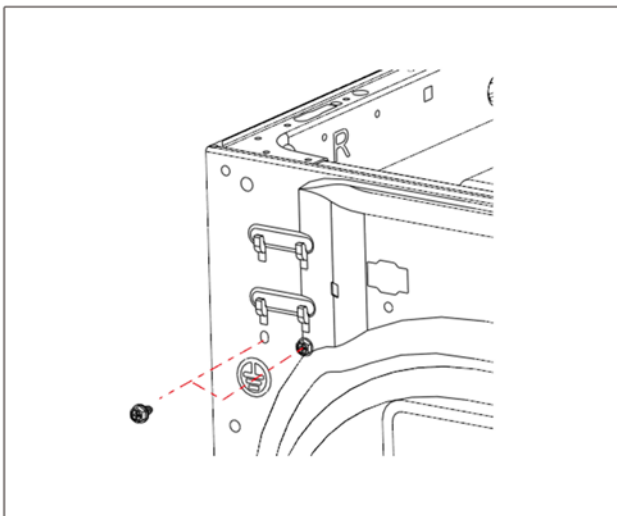
5. Unscrew 2 screws as shown



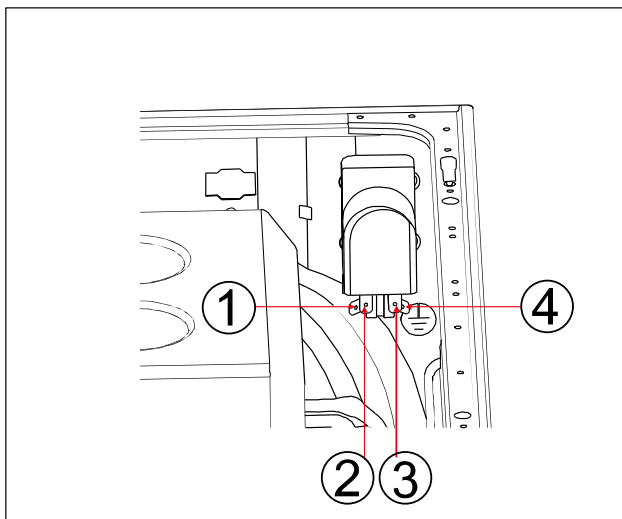
6. Disassemble the hose clamp as shown

11. DISASSEMBLY INSTRUCTIONS

11.3 FILTER



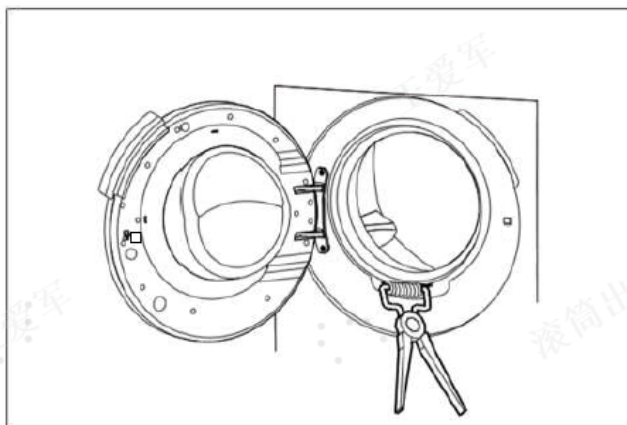
1. Unscrew 2 screws as shown



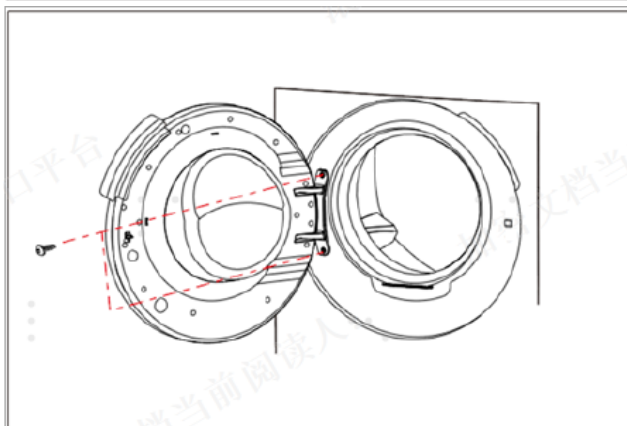
2. Disconnect the filter connector from main harness as ①②③④ shown

11. DISASSEMBLY INSTRUCTIONS

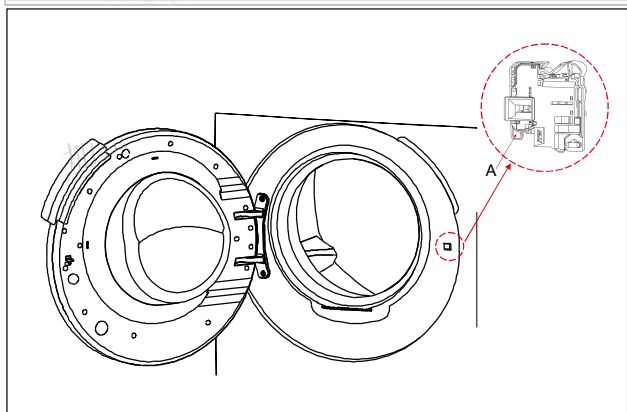
11.4 DOOR ASM



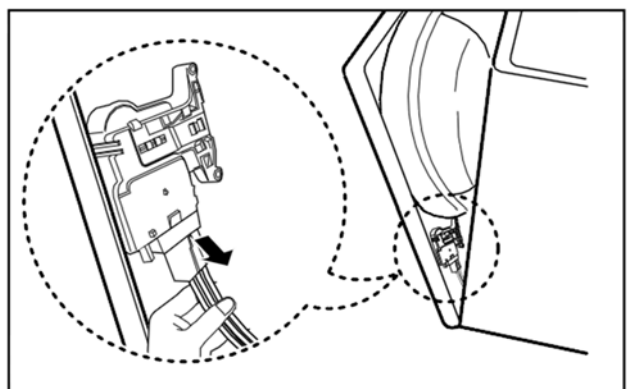
1. Open the door.
2. Disassemble retainer-bellow as shown.



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



4. Press A and slide left and right.



5. Disconnect the door lock connector
from main harness

11. DISASSEMBLY INSTRUCTIONS

11.5 DOOR SEALING



Remove the worktop, front panel and control panel then:

1.Release clamp.

2.Remove and replace the door sealing.

11.6 FRONT PANEL



Remove the worktop, front panel and control panel then:

1.Remove 2 screws on front panel

2.Remove 3 screws on the bottom of front panel



3.Remove door lock

4.Remove door sealing.

11.7 PUMP

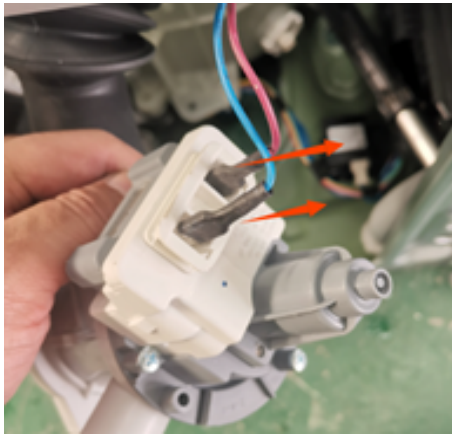


First remove the front panel and then:

1.Remove 4 screws, which are attaching the pump.

2.Release latches on hoses.

11. DISASSEMBLY INSTRUCTIONS

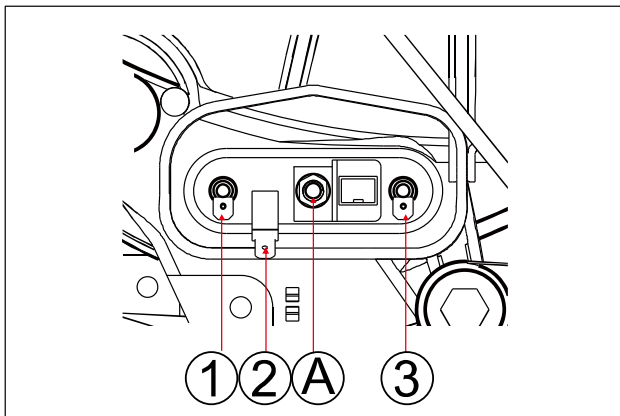


3. Release connector on pump.

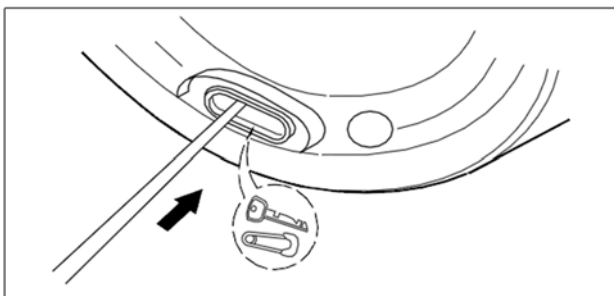


4. Remove and replace the pump.

11.8 HEATER



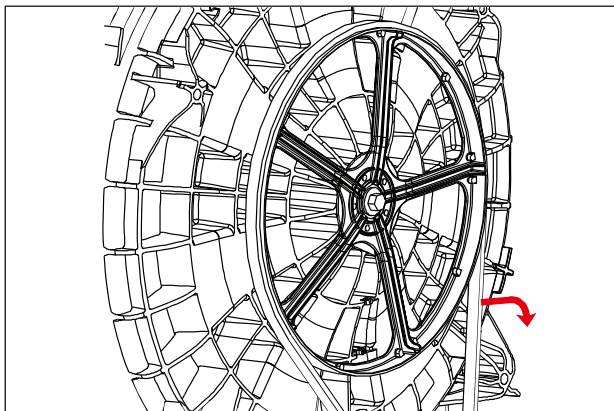
1. Disassemble the rear panel
2. Disconnect the heater connector from main harness as ①②③ shown
3. Unscrew 3 screws as "A" shown



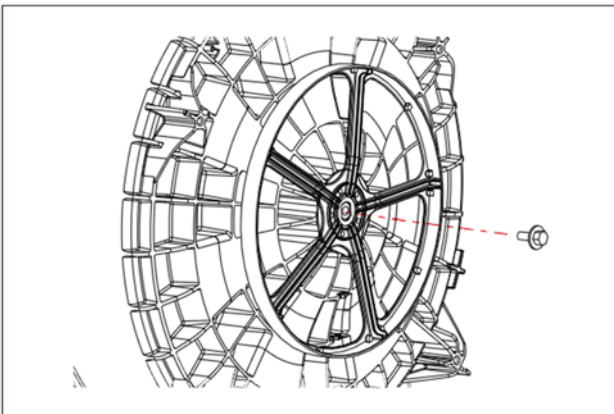
4. When foreign objects (wire, coin, etc.) is stuck between drum and tub, Remove foreign objects by inserting a long bar in the opening.

11. DISASSEMBLY INSTRUCTIONS

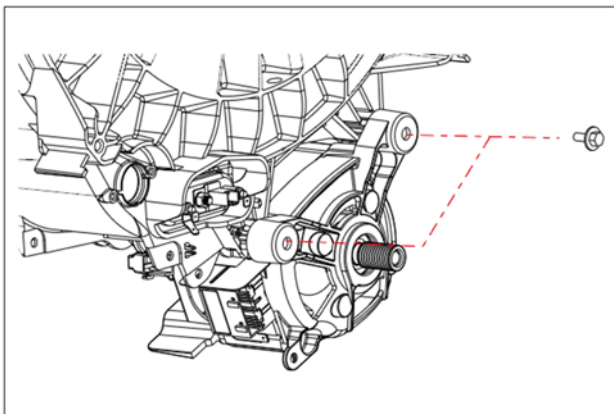
11.9 MOTOR



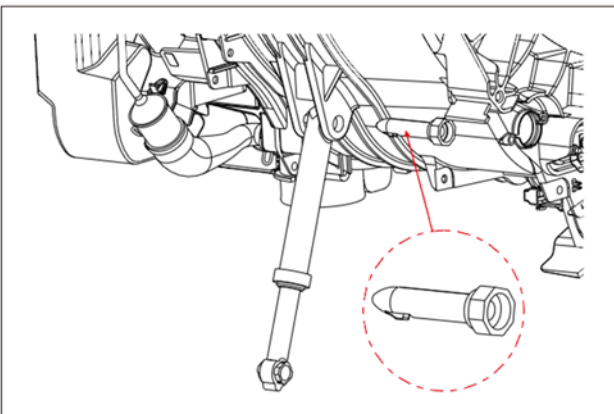
1. Disassemble the belt as shown



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.

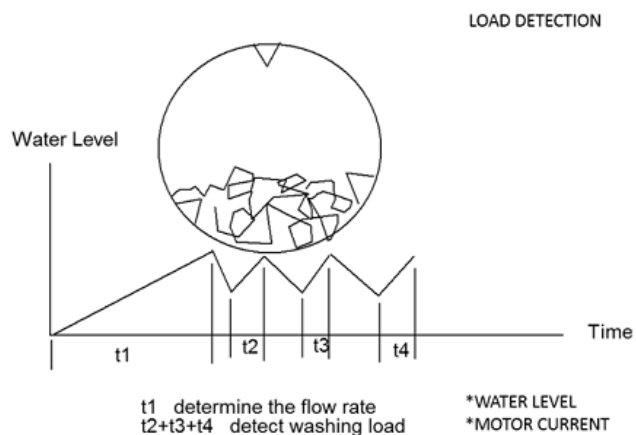
12. WORKING OPERATION

Weight control detection

1. The load is detected by the method of changing the water level at a given time.

More load, a higher level of water is needed.

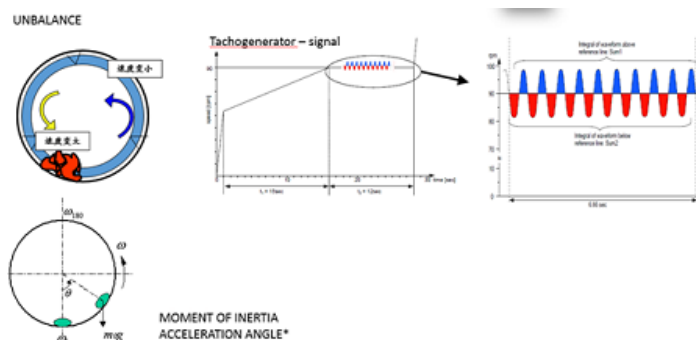
2. With the help of motor - motor current, moment of inertia



Detecting unbalanced laundry

The unbalance of the laundry is detected and controlled using a tachogenerator signal.

Unbalance of laundry is detected regarding the angular acceleration



12. WORKING OPERATION

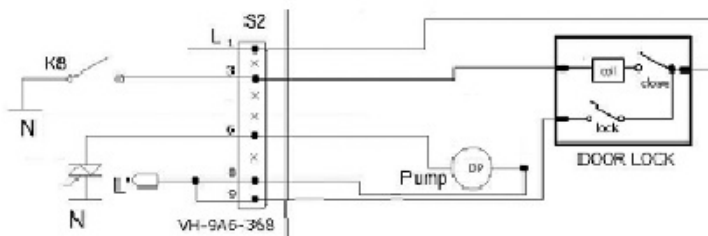
Water level detection

Appliance includes WFL sensor, which is designed to detect the water level. Water dosing is controlled by the control unit and the WFL sensor. When the dosing of water reaches the washing level, the dosing is completed and the washing program starts. In the event that the water level is not reached within a certain period of time, automatically repeats the process of water dosing to achieve the level of washing water. If after this process the water level is still not reached, an error is displayed.

Water pumping is controlled by the control unit, wfl of the sensor and the pump. When the water is pumped to level 0, the centrifuge process begins.

Door lock control

After starting the desired program or after pressing the Start key, the control unit sends the signal to the door lock. It closed the L and N contact circuit – the door is locked.



Circuit in the PCB / Wiring Diagram

Anti Foam System

Detection of excess foam is detected by help of motor. If the motor output is too high or when the motor reaches a certain value (the set speed is not reached), the antifoam system is activated. This means additional dosing of water to prevent foaming and controlling excessive foaming.

12. WORKING OPERATION

Steam system (Heating)

This technology realizes the function of steam generation under precise water level control and temperature control by using the inner and outer cylinder spaces at the bottom of the drum washing machine and the heating pipe at the bottom. The purpose is to use the existing structural parts to realize the steam function at low cost.

Process description:

Before the steam occurs, the water is introduced through the water inlet valve, and the water level is maintained at a certain height under the control of the high-precision water level sensor. The inner cylinder runs to shake the clothes, and then the heating tube is started to heat the incoming water, which is controlled by the temperature sensor. The heated water is maintained in a certain water temperature range, and the high-temperature water continuously generates steam. The rotation of the inner tube drives the steam into the inner tube and passes through the clothes fibers to realize steam washing.

