



WASHING MACHINE SERVICE MANUAL

WFML8014EVM



CAUTION

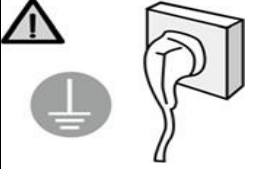
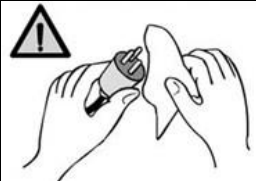
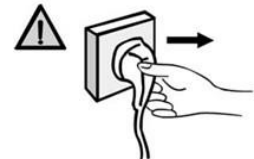
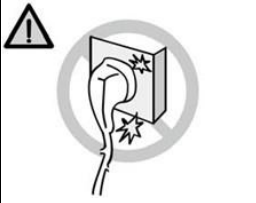
**READ THIS MANUAL CAREFULLY TO DIAGNOSE
PROBLEMS CORRECTLY BEFORE SERVICING THE UNIT.**

CONTENTS

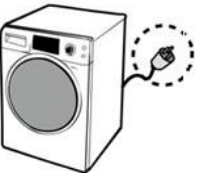
1. SAFETY NOTICES.....	2
2. SPECIFICATIONS.....	3
3. FEATURES & TECHNICAL EXPLANATION.....	4
3.1 FEATURES.....	4
3.2 INTELLIGENT FUZZY CONTROL	5
3.3 POWER SUPPLY CONTROL.....	5
3.4 WATER LEVEL CONTROL	6
3.5 DOOR LOCK CONTROL	6
3.6 LAUNDERING CONTROL	7
3.7 HEATING CONTROL	8
3.8 SPINNING CONTROL.....	8
4. PARTS IDENTIFICATION.....	10
5. INSTALLATION AND TEST.....	11
5.1 STANDARD INSTALLATION	11
5.2 CONNECT THE INLET HOSE	12
5.3 CONNECT THE DRAIN HOSE	12
5.4 CONNECT POWER PLUG	12
5.5 TEST OPERATION.....	12
6. OPERATION.....	14
6.1 CONTROL PANEL.....	14
6.2 CYCLE GUIDE	16
6.3 COMMON FUNCTIONS.....	17
6.4 ADDITIONAL FUNCTIONS	20
7. WIRING DIAGRAM/PROGRAM CHART.....	22
7.1 WIRING DIAGRAM	22
7.2 PROGRAM CHART.....	24

8. TEST MODE.....	25
8.1 SELF-INSPECTION MODE	25
8.2 SPECIAL FUNCTION MODE.....	25
9. TROUBLESHOOTING	27
9.1 SAFETY CAUTION	27
9.2 ERROR MODE SUMMERY	27
9.3 TROUBLESHOOTING WITH ERROR	36
9.4 TROUBLE SHOOTING ELSE.....	42
10. COMPONENT TESTING INFORMATION.....	45
10.1 FILTER	45
10.2 DOOR LOCK.....	46
10.3 MOTOR.....	47
10.4 PUMP	48
10.5 INLET VALVE	49
10.6 HEATER.....	50
11. DISASSEMBLY INSTRUCTIONS	51
11.1 CONTROL PANEL ASM	51
11.2 DISPENSER ASM.....	52
11.3 FILTER	53
11.4 DOOR ASM.....	54
11.5 FRONT PANEL	55
11.6 PUMP.....	56
11.7 HEATER.....	57
11.8 MOTOR.....	58
11.9 HEATER.....	59
12.WORKING OPERATION.....	60

1. SAFETY REMARKS

 •Disassembly, repair or modification of the washing machine is strictly prohibited, except by specified professional maintenance personnel. •Protects against electric shock, fire and personal injury due to improper behaviour.	 -Please use a separate 16A/AC 250V or larger power outlet. - Fire may occur due to abnormal heating caused by sharing the outlet with other electrical equipment
 In case of abnormality (abnormal noise, burning smell, smoke, etc.), please unplug the machine immediately to stop the machine and contact "After Sales Service".	
 •This product uses bipolar power cords with grounded contacts, and please use a grounded bipolar power connector. The use of a leak protector is recommended. •It is used to prevent damage caused by electrical leakage or failure.	 •It is forbidden to insert and remove the power plug with wet hands. •It is used to prevent accidents due to electric shock.
 •When the washing machine is not in use, discharged or moved, please unplug it. •It is used to prevent electric shock, electrical leakage, or fire due to insulation aging.	
 •If there is any dust or dirt stuck to the pins or clamping surfaces of the power connectors, wipe it off first before using it. •It is used to prevent fire.	 When unplugging the power cords, do not pull on the power cord and be sure to pull the connectors outwards while holding your body firmly.
 •Do not use damaged power cords, plugs or loose sockets. •Otherwise, accidents such as electric shock, short circuit or fire may occur. •If the power cords are damaged, turn them in "For after-sales service personnel".	

1. SAFETY REMARKS

 	•Turn off the power supply before maintenance and repair of the washing machine. •It is used to prevent damage caused by electrical leakage.	 
 	•Please do not spray or spray water directly on any part of the washing machine during maintenance and repair. •Otherwise, accidents may occur, such as short circuit or electric shock.	The nut connecting the water inlet pipe to the machine must be screwed on.
 	•Please do not place the washing machine in a damp place or exposed to wind, rain and sun. •It is used to prevent fire accidents caused by electric shock or current leakage.	 
 	Explosion or Fire •- It is strictly forbidden to put clothes smeared with flammable substances in the drum of the washing machine. •-It serves to prevent possible explosion or fire.	 Please remove the machine door before scrapping and handling.
 	Mechanical damage •Do not open the door by force. •It serves to prevent possible damage.	 
 	Safety tips for children •Please do not allow children to use the washing machine and do not place baskets, stools, etc. around the washing machine. •Children can be injured if they climb on top of the washing machine or into the drum	If the washing machine is damaged during transport, do not use it. Please call the "After Sales Service Staff".

2. SPECIFICATIONS

ITEM		WFML8014EVM
COLOR		White
POWER SUPPLY		AC 220-240 V, 50 Hz
PRODUCT WEIGHT		58 Kg
ELECTRIC POWER CONSUMTION	WASHING	100 W
	HEATER	1500 W
REVOLUTION SPEED	WASH	55 rpm
	SPIN	1400 rpm
CYCLES		20
WASH/RINSE TEMPERATURES		20-*/30/40/50/60/90℃
SPIN SPEEDS		0/600/1000/1200/1400 rpm
OPTIONS		Temp/Spin/Steam/Options/Delay End/ Pause start button
WATER CIRCULATION		0.1-1 MPa
CONTROL TYPE		PTC lock
Washing Capacity		8Kg
Dimension		595×540×845
DELAY WASH		up to 24 hours
DOOR LOCK TYPE		PTC lock
WATER LEVEL		FWL Sensor control
LAUNDRY LOAD SENSING		YES
ERROR DIAGNOSIS		YES
AUTO POWER OFF		YES

3. FEATURES & TECHNICAL EXPLANATION

3.1 FEATURES

■ Ultra-Capacity



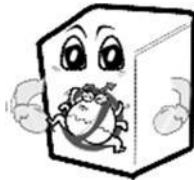
The larger drum enables not just higher head drop and stronger centrifugal force, but also less tangling and wrinkling of the laundry. Heavier loads, such as king size comforters, blankets, and curtains, can be washed.

■ 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

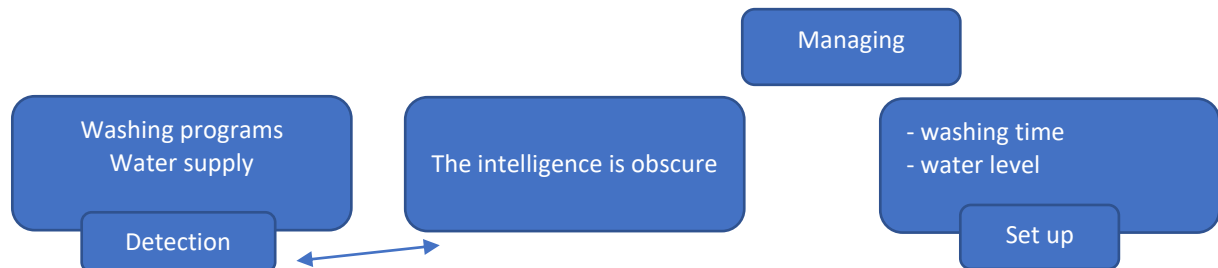


The Child lock prevents children from pressing any button to change the settings during operation.

3. FEATURES & TECHNICAL EXPLANATION

3.2 INTELLIGENT FUZZY CONTROL

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 “ON/OFF” button are disabled; all loads are in the state of ready-for-activating.
- ◆ After turning to the “ON/OFF” button, 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. obtained.
- ◆ 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 3 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”.
- ◆ 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”.

3.4 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 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.

- ◆ 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	55rpm	55rpm	55rpm
Rotation/Stop ratio	10:5	20:10	20:10	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 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

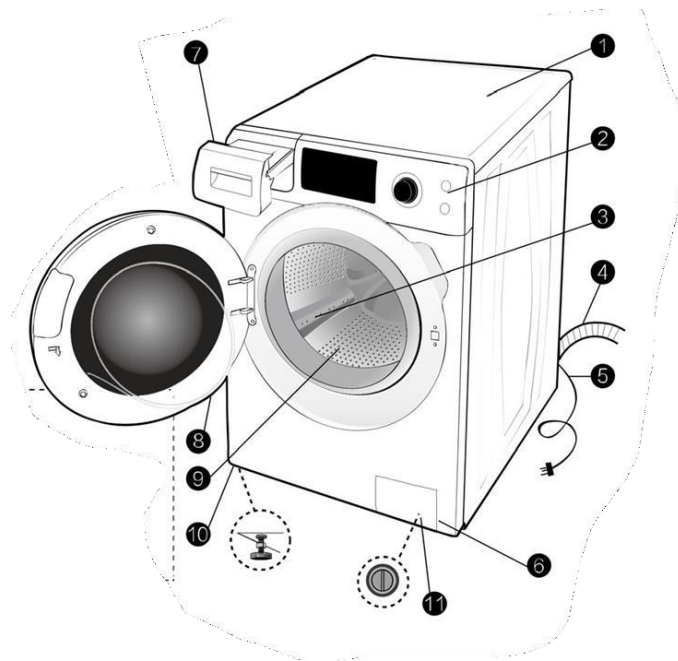
progressively and occupy the Spinning time until the latter is run out.

◆ 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

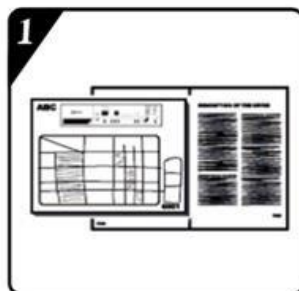
SUBPARTS

1. Top of the machine
2. Control panel cover
3. Drum chamber
4. outlet pipe
5. Main's supply
6. Filter cover
7. Dispenser
8. Door
9. Drum
10. Four adjustable feet
11. Drain pump filter

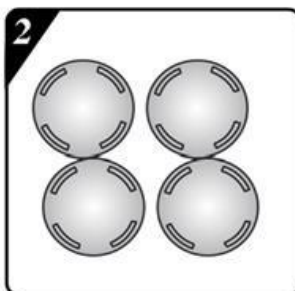


As for product development and series expansion, the products you purchase may differ from the graphical representation in this manual, the actual product will prevail.

ACCESSORIES



IFU ASM



plastic cap for 4 screws



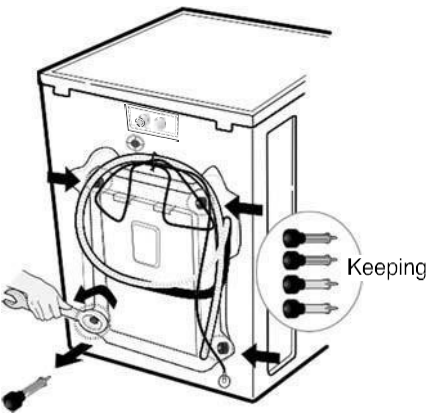
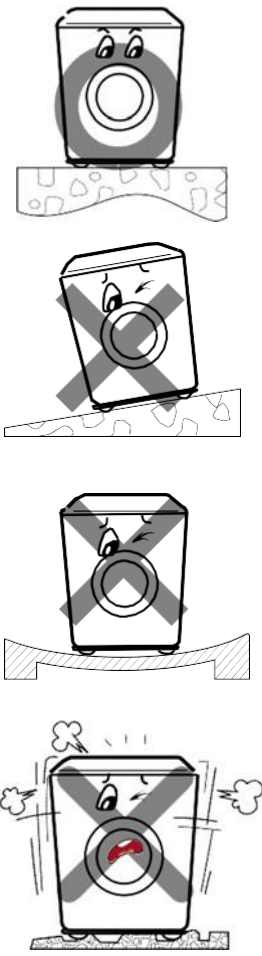
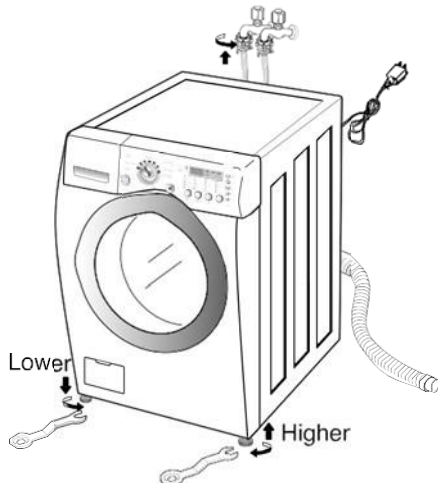
Inlet pipe + "U" elbow bracket

Depending on the type of machine
Some models are not equipped with a "U" elbow support or a noise reduction plate, which affects the use,

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.

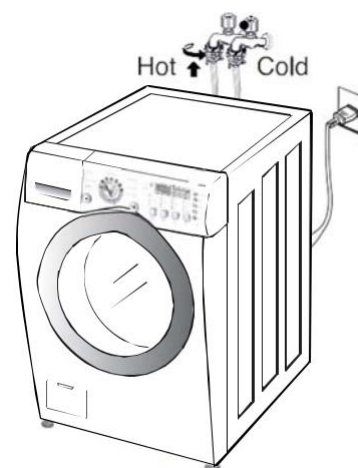
5.1 STANDARD INSTALLATION

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. 		◆ Rotate the levelling feet to adjust the appliance.  ◆ Turn clockwise to lift. ◆ Turn counter clockwise to lower.

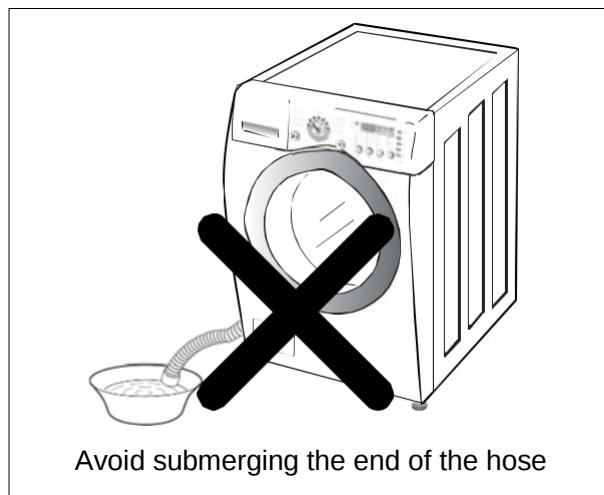
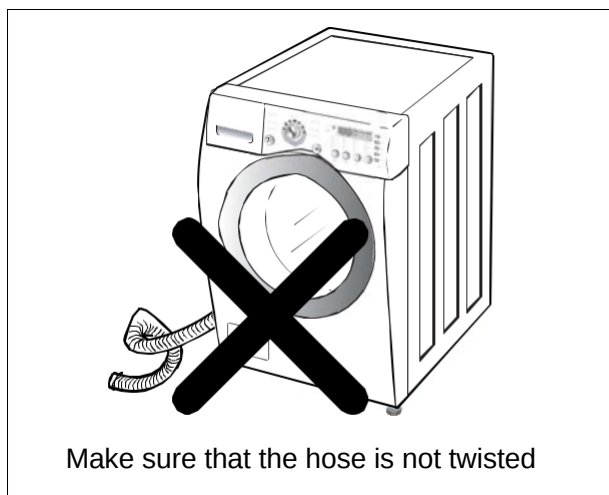
5. INSTALLATION AND TEST

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.

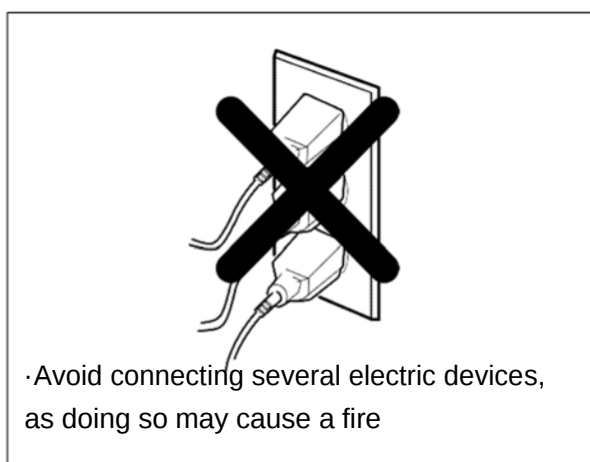
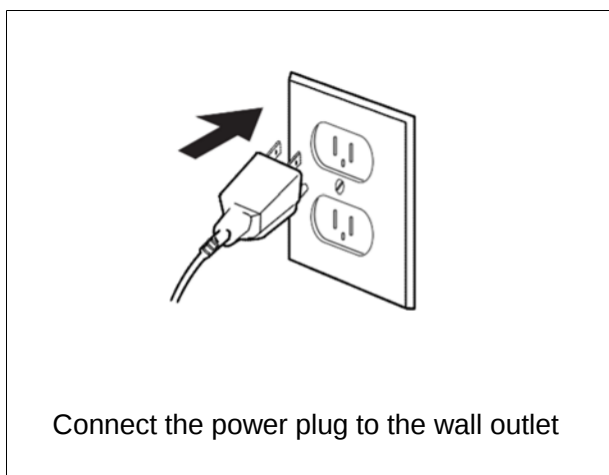


5.3 CONNECT THE DRAIN HOSE



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

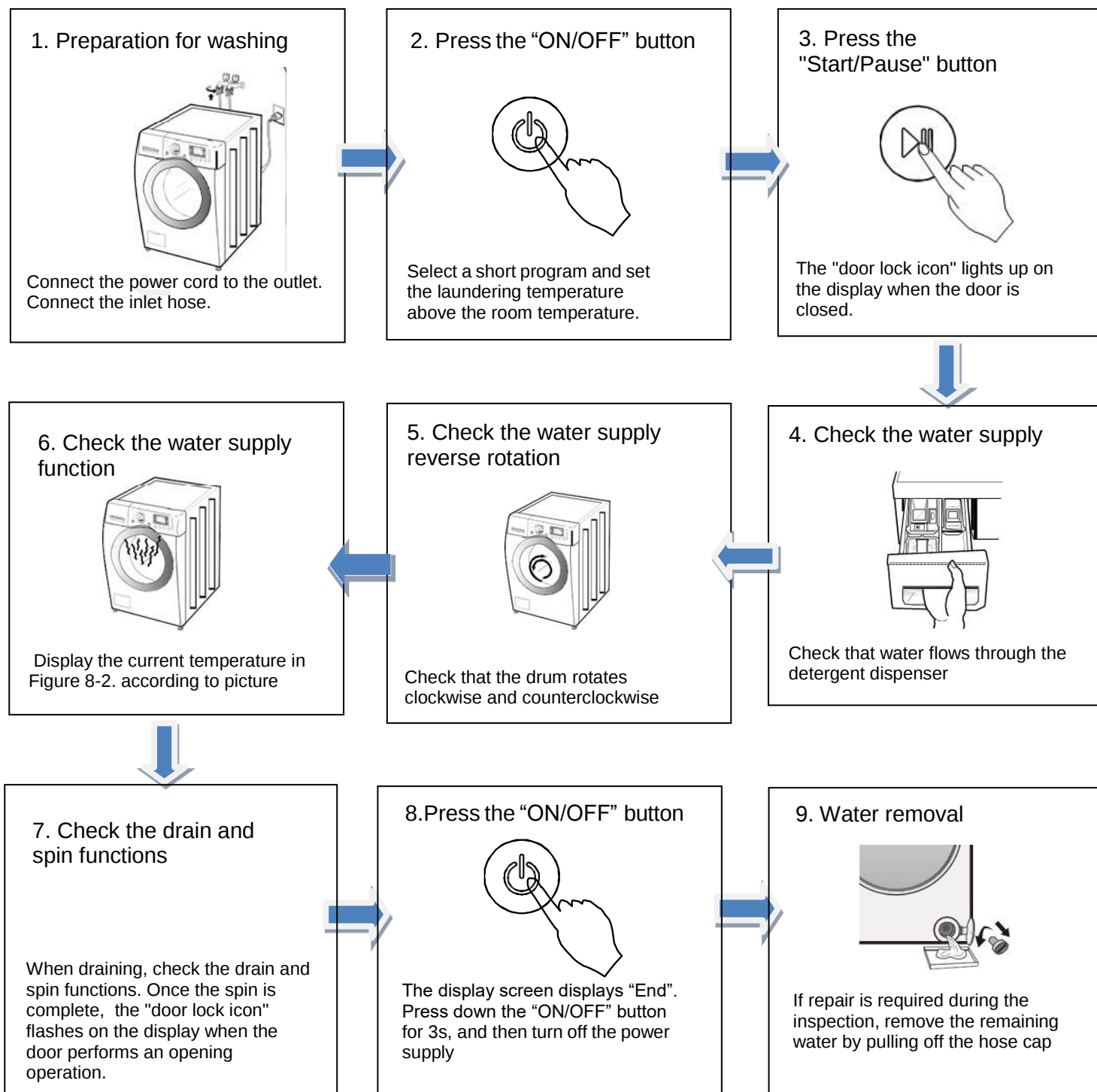
5.4 CONNECT POWER PLUG



5.5 TEST OPERATION

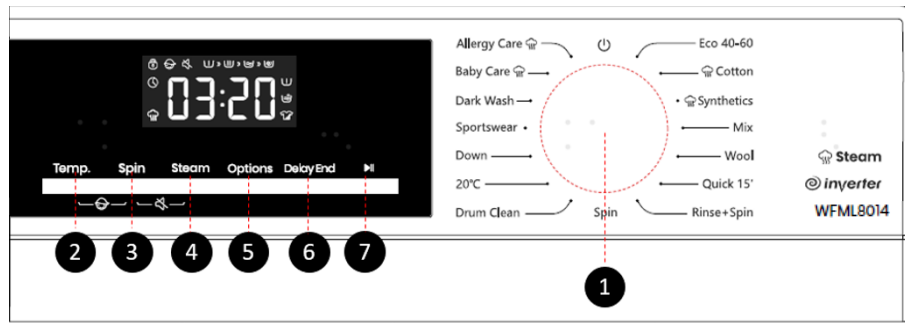
Perform the washing machine self-test in step 8-1. according to the figure, or perform a test run according to the figure below

[CAUTION] Before performing this kind of check, turn on the special function mode in Figure 8-2. according to figure, after the inspection is completed, please turn off the special function mode, otherwise it may cause users to malfunction and further affect the normal use of the washing machine.



6. OPERATION

6.1 CONTROL PANEL



1. CYCLE SELECTOR

Turn the dial to select a cycle or turn on/off the machine.

2. Temp

Press to change the water temperature for the selected cycle.

3. Spin

Press to change the spinning speed for the current cycle.

4. Steam

Press to add steam function if applicable.

5. Option

Press to select additional function for program.

6. DELAY END

Delay End lets you set the end time of the current cycle. Based on your settings, the start time of the cycle will be determined by the machine's internal logic. For example, this setting is useful for programming your machine to finish a wash at the time you normally return home from work. Press to choose a preset unit of hours.

7. START / PAUSE

Start/Pause the whole machine program running.

1+2 Child Lock

Press these two keys at the same time to enable or disable the child lock function.

2+3 MUTE

Switching off the acoustic signals 🔊×

For extra function: Press and hold for 3 seconds.

6.2 CYCLE GUIDE

Program	Max. load	Max Spinning Rate	Program Description
ECO 40-60 -	8kg	1400	Normally soiled cotton laundry.
Cotton (--,20°C, 30°C, 40°C, 60°C, 90°C)	8kg	1400	Heavily and moderately soiled cotton, or linen. For very heavily soiled items select the "Prewash" function.
Synthetics (--,20°C, 30°C, 40°C, 60°C)	4kg	1400	For fabrics that are made of polyester (diolen, trevira), polyamide (perlon, nylon), or the like.
Mix (--,20°C, 30°C, 40°C)	4kg	1400	Suitable for mixed cotton fabrics and chemical fiber fabrics with a mild degree of fouling
Wool (--,20°C, 30°C, 40°C)	2kg	600	This program is suitable for machine-washable wool
Quick 15' (--,20°C, 30°C, 40°C)	1kg	800	This program is suitable for cotton and mixed fabrics. It is suitable for new or little work clothes. Washing time will prolong in case of changing default settings.
Rinse & Spin	8kg	1400	This program is defaulted to two rinses and spin
Spin	8kg	1400	In this program, you can select spinning rate manually
Drum Clean (90°C)	\	800	The program is used for cleaning the drum and removing any residues of detergent and bacteria that can accumulate and develop, especially when you use programs with low washing temperatures. The drum has to be empty. Run this programme at least once a month.

Program	Max. load	Max Spinning Rate	Program Description
20°C	8kg	1400	This program is suitable for cotton clothes with light stains, energy savings.
Down (--,20°C, 30°C, 40°C)	2kg	600	Machine-washable items stuffed with synthetic fibres, such as pillows, quilts, and bedspreads; also suitable for items stuffed with down
Sportswear (--,20°C, 30°C, 40°C)	3kg	1000	This program is suitable for sportswear and leisure wear made from microfibre fabrics
Dark Wash (--,20°C, 30°C, 40°C, 60°C)	4kg	1000	Suitable for machine washable clothes of dark colors.
Baby care (40°C, 60°C, 90°C)	2kg	1400	It is suitable for baby clothes and underwear, etc., which sterilizes and disinfects through high temperature steam
Allergy Care (60°C)	2kg	1400	It is suitable for high temperature resistant and less fading fabrics, which removes allergens such as pollens, mites and parasites through high temperature steam

Programs	°C Temp	SPIN (SETTING THE SPINNING RATE)	DELAY	PREWASH	EXTRA RINSE	DEFAULT NUMBER OF RINSES
Eco 40-60	-	*	*	-	-	1
Cotton	•	*	.	*	.	3
Synthetics	*	.	*	*	*	3
Mix	*	*	*	*	*	2
Wool	*	*	*	*	.	2
Quick 15	*	*	*	-	*	1
Rinse+Spin	-	*	*	-	.	0
Spin	-	•	.	-	-	0
Drum Clean	-	-	*	-	-	1
20°C	-	*	*	*	*	2
Down	•	*	*	-	*	3
Sportswear	*	•	*	•	.	2
Dark Wash	.	•	*	*	*	2
Baby Care	*	*	*	•	•	3
Allergy Care	-	.	-	*	•	4

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.

Mute Function

- ◆ The buzzer and alarm can be turned off by pressing the SPIN and STEAM buttons at the same time for 3 seconds.

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 force the door open may 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.

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.

6.4 ADDITIONAL FUNCTIONS

To change or add. Any of the functions press the respective button and the display will flash.

Press the button again until the chosen option flashes and then press select.

Power Save

- ◆ Press the Option button until the icon flashes and press Select.
- ◆ This function is designed to reduce the amount of electricity, water used and save time during the program.

- ◆ The icon will continue to flash until the program is finished.

Prewash

- ◆ Press Select. Add detergent into the Soak compartment of the detergent drawer.
- ◆ This function cannot be selected if you select Eco Wash function.

Extra rinse

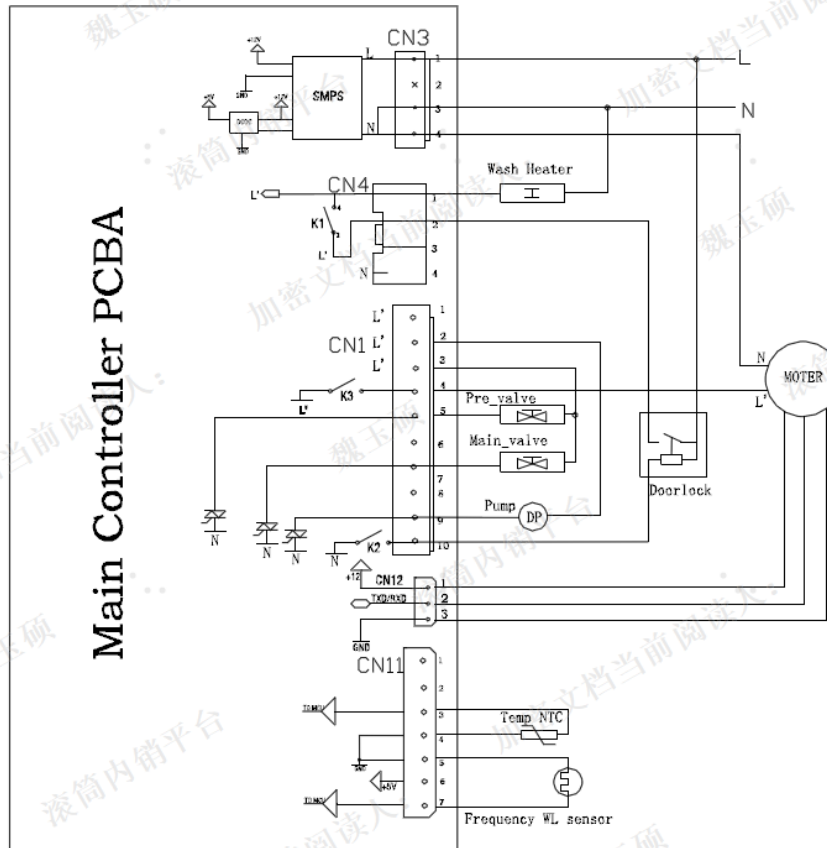
- ◆ Press the Option button until the Extra Rinse icon flashes and press Select.
- ◆ This function cannot be selected if you select Eco Wash function.

Intensive wash

- ◆ Press the Option button until the Intensive Wash icon flashes and press Select.
- ◆ This function will prolong the wash time with a more intense wash action for washing heavily soiled items.

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					DRY	E N D	A U T O O F F	Approx Working Time (Minutes)					
	PRE					MAIN						RINSE					EXTRA RINSE 1					EXTRA RINSE 2										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	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								
	60	*	60	240	60	120		*	60	240	60	120	*	60	240	60	120	*	60	240	60	120	*	60	240	60	120	*	60	*	60	60	60			30
Cotton		12						108					8					8										8		11						160
BabySteamCare		12						63					4					4										4		8						130
Mix		12						83					2					2										2		7						118
20℃		12						58					8					8										8		11						110
Allergy Steam		12						48					5					5										5		7						111
Eco 40-60								200					3					3										3		12						239
DarkWash		12						38					5					5										5		7						75
Sportswear		12						23					4					4										4		7						58
Drum Clean								59					4					4										4		4						70
Wool								27	2				2	2				2	2									2	2	4						55
Down								30					5					5										5		5						65
Quick 15'						1		4									1	3									1	3		4						15
Rinse+Spin													4					4										4		11						30
Spin																														9						10

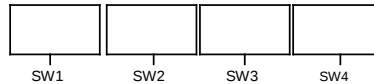
※ Water Supply: W-S Add Drain: A-D Intermittent Spin: I-S Disentangle: D-T
DOOR Unlock: D-U

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 T51 (means that you can select the desired submenu / test program)

I 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

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

Add the function of cycles record:

1. Power the machine on and then select "SPIN" program
2. Simultaneously press the DETERGENT (SW4) + SPIN (SW6) combination key for 1 second to enter the Special Mode, and the LED displays ts1.
3. Press the FAVOURITE (SW7) key to enter the Developer Mode
4. Press the DETERGENT (SW4) to switch parameters (the parameter adjustment interface will circularly display version number of power supply board - version number of inverter board - unbalance parameter 1 - unbalance parameter 2 - unbalance parameter 3 - unbalance parameter 4 - test function - cycle function - operation cycle)

Add the function of fault code storage:

1. Power the machine on and then select "SPIN" program
2. Simultaneously press the DETERGENT (SW4) + FAVOURITE (SW7) combination key for 1 second to enter the Demonstration Mode, and the LED displays ts2.
3. Press the SPIN (SW6) key to enter the alarm code query (press DETERGENT (SW4)/TEMP (SW5) to turn the page forward/backward respectively)

9.3 TROUBLESHOOTING ERROR

WATER INLET ERROR

When **F01** it appears?



Is the filter inlet valve clogged with foreign matter?

YES



Clean or replace the filter.



NO

Is the connector to the intake valve disconnected or disassembled?



YES



Reconnect or repair the connector.



NO

The resistance between the individual ports of the inlet valve is 3,79 – 3,85 kΩ? (See 10-5 inlet valve)



NO

Voltage of the inlet valve connector 220-240 V? (Switched on)

YES



Replace the inlet valve



Is the connector to the printed circuit board disconnected or disassembled?



YES



Reconnect or repair the connector.



NO

Is the electrical connection, correct? (See 10-5)



Replace the main harness



YES



Replace the FWL sensor

Is the water level frequency below 41,8 kHz (see 8-2)?



NO

Replace the PCB

[Note] Environmental checklist

- 1) No water tap leakage
- 2) No faucet freezing
- 3) The water supply hose is not tangled
- 4) No water shortage
- 5) No shrinkage of the water supply hose due to possible misuse of hot and cold water
- 6) No leakage in the water supply hose

9. TROUBLESHOOTING

DRAINAGE ERROR

When **F03** it appears?



YES

Is the connection to the pump disconnected or disassembled?



YES



Reconnect or repair the connector.



NO

Is the water level frequency below 42.15 kHz (see 8-2)?



NO



Check the air inlet, hose, and pressure switch.

YES



Replace the drain pump



NO

NO



Replace the main harness

Is the voltage between the connectors out of range? After removing the terminal position fuse (TPA) of the connector, check as follows:



-Pump operation: 220-240V±5%
-Motor/pump set: 0~1V Method
Selecting to run the "Spin" program, the pump will start working.

YES



Replace the PCB

[Note] Environmental security checklist

- 1) The drain hose cannot remain in the down position.
- 2) The drain hose cannot be bent or obstructed in any way by the surrounding physical design.
- 3) The drain hose cannot freeze.
- 4) The drainage pump cannot contain any unsuitable material or substance that could cause the machine to malfunction.

HEATING ERROR

When **F04** it appears?



Is the connection to the heater disconnected or dismantled?



YES



Reconnect or repair the connector.



NO

Is the Check heating resistor out of range? (24,2-26,8 Ω) (See 9-6)



Replace the heater



NO

Voltage of the heating socket 220-240 V? (While the power is on)



Replace the PCB



NO

Is the electrical connection, correct?(See 10-6.)



Replace the main harness



YES

Is the connector connected to the PCB disconnected or disassembled?



Reconnect or repair the connector



NO

Replace the PCB

DOOR LOCK ERROR

When **F13** it appears?



YES

Is the connector connected to the door lock or is the PCB disconnected?



YES



Reconnect or repair the connector.



NO

Does the latch bolt work properly?



YES



Door assembly replacement



NO

Is the voltage of the heating connector 220-240 V when the start/pause button is pressed to start the cycle?

YES



Replace the PCB



NO

NO

Damage or lock?

Replace the door lock

[Note] Environmental checklist

There is a very small chance that the cause comes from the main controller. Detection of part of the circuit (tE) consists only of resistors and capacitors.

[Note] Environmental safety checklist

- 1) The machine must operate with the doors fully closed and locked.
- 2) The washing area should operate at a water temperature not higher than 50°C and should not be supplied with more water than necessary.

MOTOR ERROR

If display

F22



YES

NO

Check the following connectors. Is the connector disconnected or disassembled?

1 brown + L connected
3 blue + N connected
7 black + PE connected
5 yellow + DATA connected
9 red + VCC connected
10 white + GND connected



Reconnect
the plug or
replace the
harness



YES

NO

Switch on the machine, measure the values 1 and 3 with a multimeter and check that there is power.



Replace the
PCB



YES

NO

Replace the motor, start the machine for 30 seconds, NOT to check if there is an alarm.



Finished



YES

PCB replacement

MOTOR ERROR

If display

F06

YES

YES

1. Check that the cloth is stuck between the door seal and the drum, or that the cloth in the drum is not blocking the door

Spread the laundry evenly by hand and continue.

NO

2. Check the connectors between PCB and the motor is loose



YES

Reconnect the plug

NO

Restart the machine, check that the motor is on and if there is power in the drive inverter board

YES

3. Record the status of the machine (amount of clothes, height of water level), then restart the machine, if the water runs out, add water manually to the record set and observe whether there is weak start or shaking during start

NO

NO

If the PCB is OK

replace the PCB

YES

YES

To make the three-phase resistance of the motor consistent

replace the motor

NO

Step 4

YES

If the belt slips

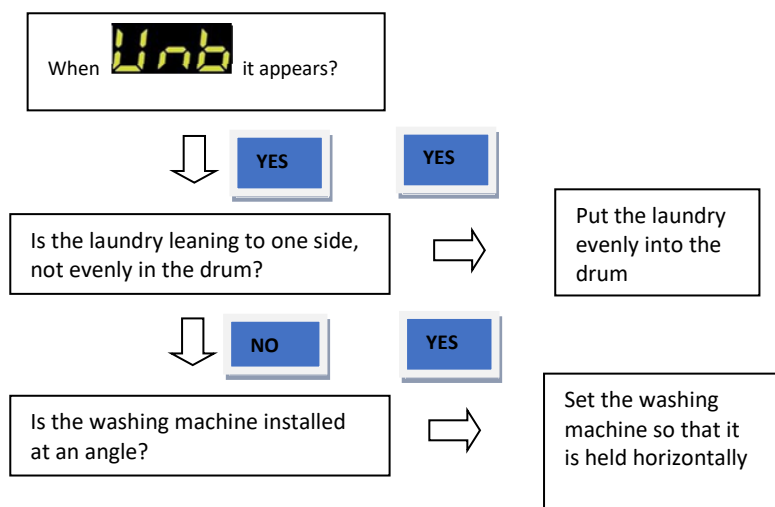
Replace the belt

NO

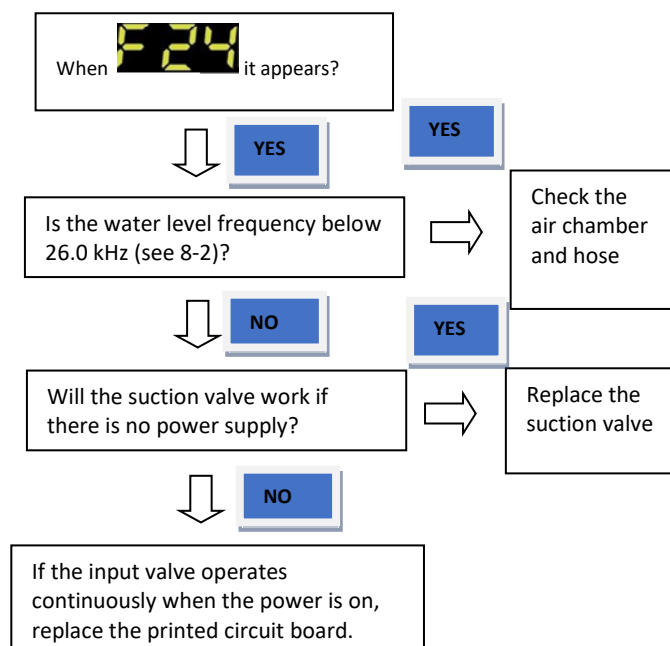
replace the motor

Uneven distribution of clothing during engine operation can lead to abnormal operation of the engine, which is part of normal protection.

IMBALANCE ERROR



OVERFLOW FAULT



[Note] Environmental checklist:

- 1) Removal of transportation-based fixed bolt.
- 2) Confirmation on the material to see if it is capable of handling two different types of blanket materials.

FWL SENSOR ERROR

When **F23** appears?



YES

YES

Is the connector to the FWL sensor disconnected or disassembled?



Reconnect or repair the connector.



NO

YES

Is the FWL sensor voltage 5 VDC?



Replace the FWL sensor



NO

YES

Is the air inlet and the pipe clogged?



NO



Secure the air chamber and remove foreign matter

Replace the PCB

WI-FI SENSOR ERROR

Follow the instructions for distribution on the network. If successful, the WIFI icon will always be on.



YES



Follow the instructions to continue



NO

YES

1. Is the problem with the network?
2. Is the device barcode correct?



Repeat the first step once the network has confirmed that the network is correct



NO

Check that the mobile phone hardware is able to locate the access point and Bluetooth WIFI module as instructed (try a few more times)

YES



Hardware is normal, repeat the first step according to the instructions



NO

Replace the display board

9.4 TROUBLESHOOTING OTHER

CAUTION :

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

NO POWER SUPPLY

YES

Is the supply voltage 220-240V AC?



NO

Check the fuse or reset the circuit

PCB S5-1 and S5-3 connector voltage 220-240V?

YES

Replace the PCB



NO

Replacement with explanation

NO

Check harness connections and repairs.

Is the current of the multiple socket outlet sufficient? (Avoid connecting multiple electrical devices)



YES

Is the connector to the printed circuit board/filter disconnected or disassembled?



NO

Reconnect or repair the connector

YES

BUTTON DOES NOT WORK

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



YES



Reconnect or repair the connector



NO

Is the panel button stuck?



YES



Repair the button



NO

Is the display PCB damaged? (Check the beep sound and LED light when the button is pressed).



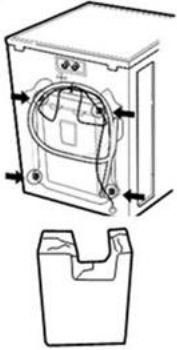
YES



Repair PCB / display LED

VIBRATION AND NOISE IN THE SPIN

Have all transit bolts and base gaskets been removed?



NO



Remove the transfer screws and base packing



YES

Is the washing machine installed on a solid floor?



YES

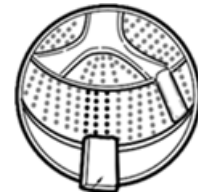


Move the washing machine or reinforce the floor.

Check that the washing machine is perfectly level as follows:
1. Check the level of the washing machine with a protractor and check that the washing machine is stable.



2. Put a rubber balancer (or 2-3 kg) inside the drum and run the high spin. When the machine spins at high speed, check that it spins stably.

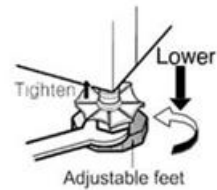
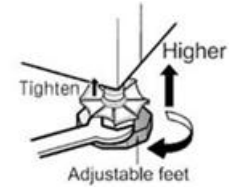


Unbalanced part



NO

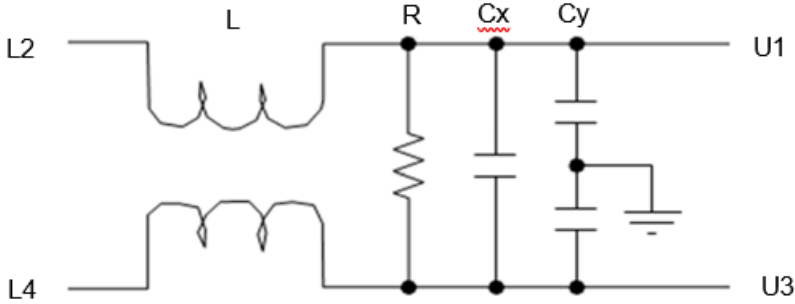
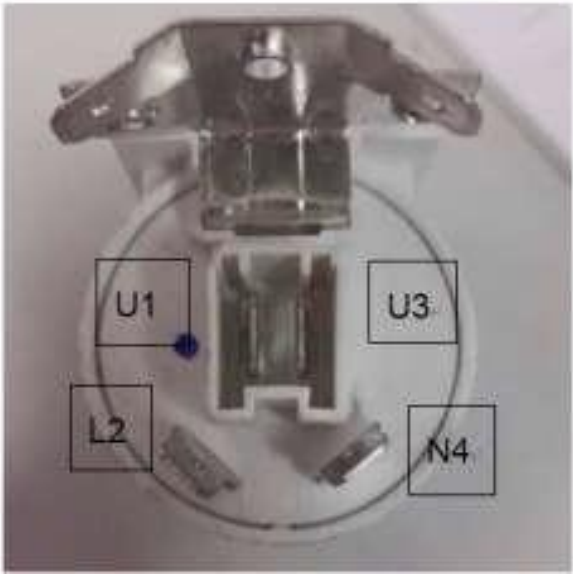
If not stable, adjust the legs accordingly. Once the support is levelled, tighten the fixing screws to the bottom of the support. All locknuts must be tightened.



10. COMPONENT TESTING INFORMATION

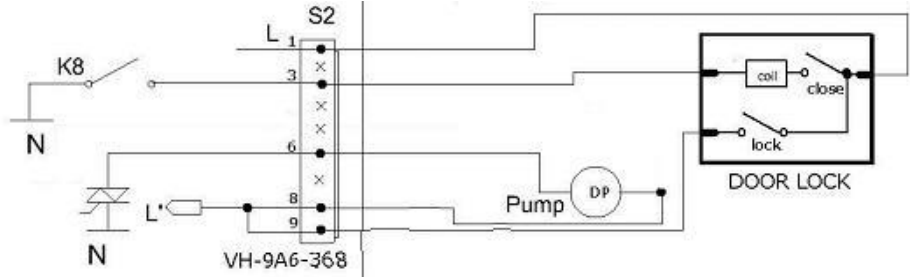
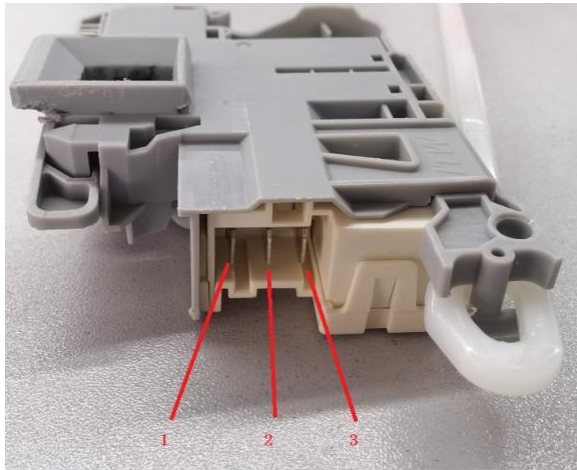
CAUTION: When Resistance (Ohm) checking the Component, be sure to turn the power off, and do voltage discharge sufficiently.

10.1 FILTER

Wiring diagram	Circuit in the PCB / Wiring Diagram 
Test points and result	

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 Ω</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 Ω	At 77°F (25°C)	1-3	220-240V	Voltage Input
Test Points	Result	Remarks											
1-2	0Ω												
2-3	195 Ω	At 77°F (25°C)											
1-3	220-240V	Voltage Input											

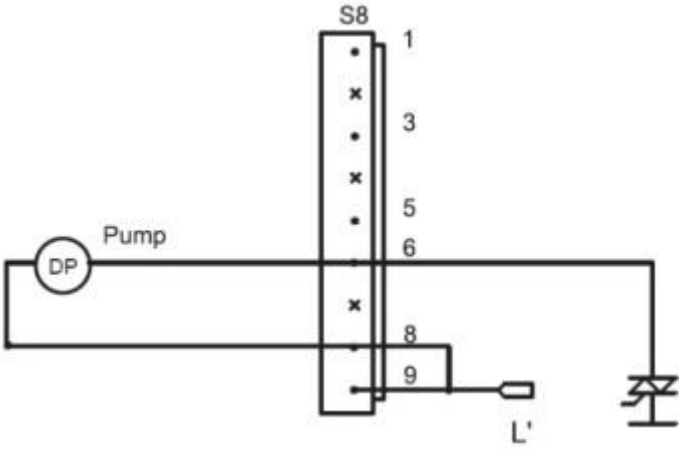
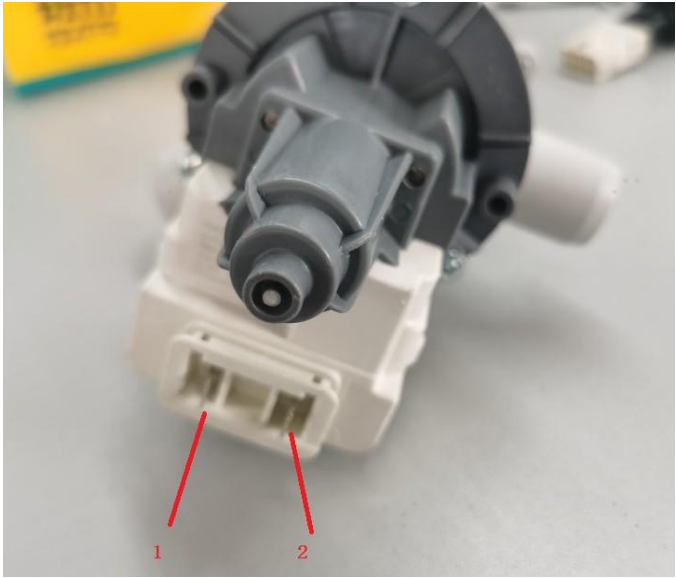
10. COMPONENT TESTING INFORMATION

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 perform batch operations clockwise and counterclockwise at a constant frequency to rotate the drum through the pulley for washing.																																								
Test points and result	The relationship between the line and the PCB 1 – Brown – L 3 – Blue – N 7 – Black – PE 5 – Yellow – Data 9 – Red – VCC 10 – White – GND																																								

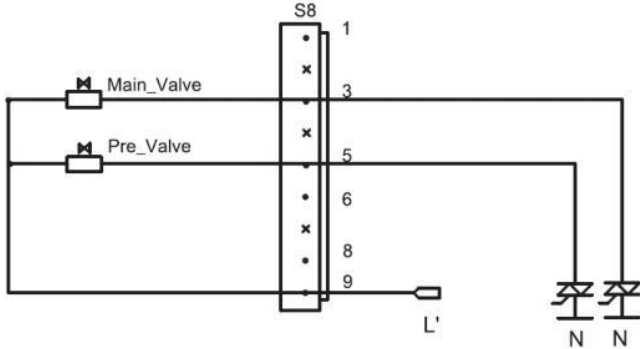
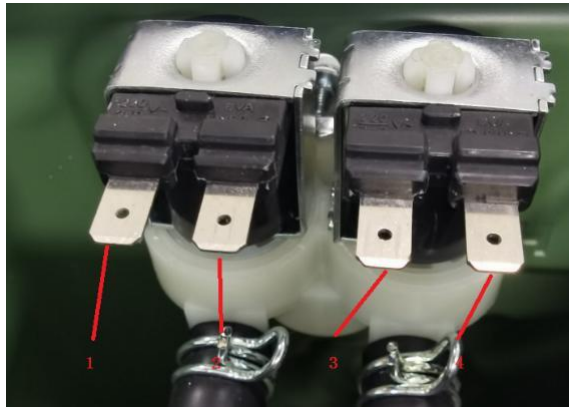
10. COMPONENT TESTING INFORMATION

10.4 PUMP

Wiring diagram	Circuit in the PCB / Wiring Diagram 
Function	The pump is used to drain the tub and to circulate the water
Test points and result	

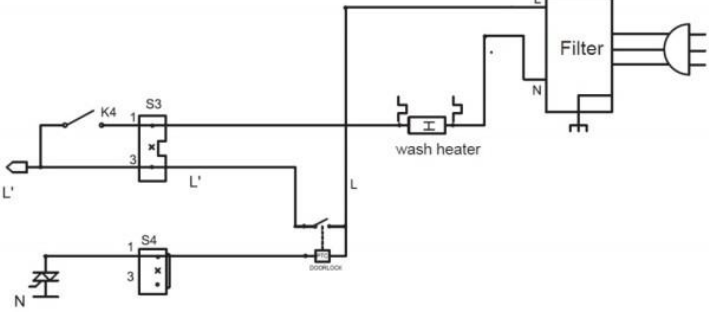
10. COMPONENT TESTING INFORMATION

10.5 INLET VALVE

Wiring diagram	Circuit in the PCB / 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><td>Test points</td><td>Result</td><td>Remarks</td></tr><tr><td>1-2</td><td>3.82±10%KΩ</td><td>Pre_Valve</td></tr><tr><td>3-4</td><td>3.82±10%KΩ</td><td>Main_Valve</td></tr></table>	Test points	Result	Remarks	1-2	3.82±10%KΩ	Pre_Valve	3-4	3.82±10%KΩ	Main_Valve
Test points	Result	Remarks								
1-2	3.82±10%KΩ	Pre_Valve								
3-4	3.82±10%KΩ	Main_Valve								

10. COMPONENT TESTING INFORMATION

10.6 HEATER

Wiring diagram	Circuit in the PCB / 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	

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 two 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

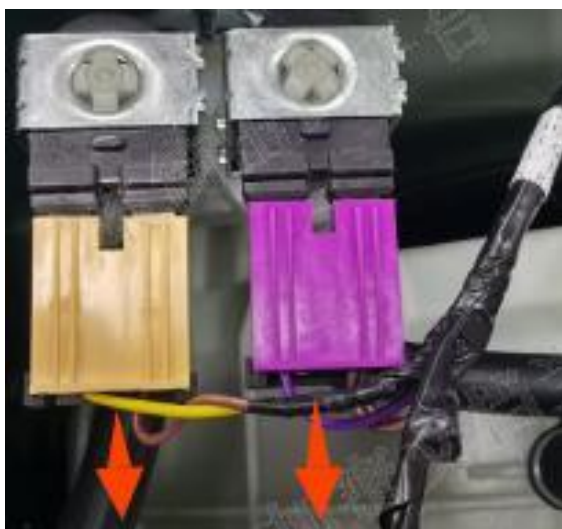
11.2 DISPENSER ASM



1.Remove worktop, release latches on hoses and remove them.



2. Unscrew the discharge hose and remove 2 screws.

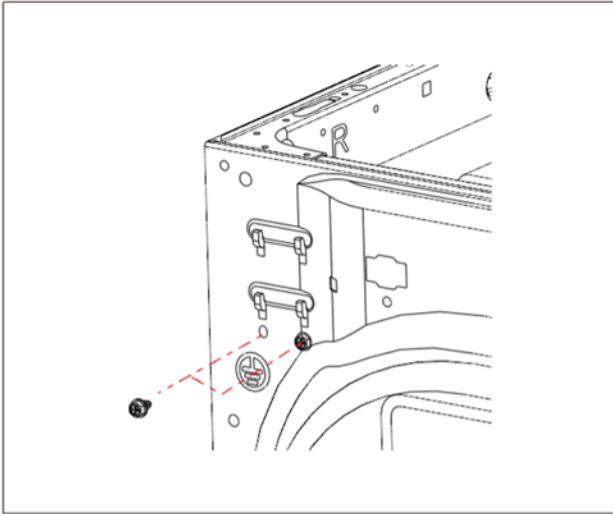


3.Remove connectors on valves.

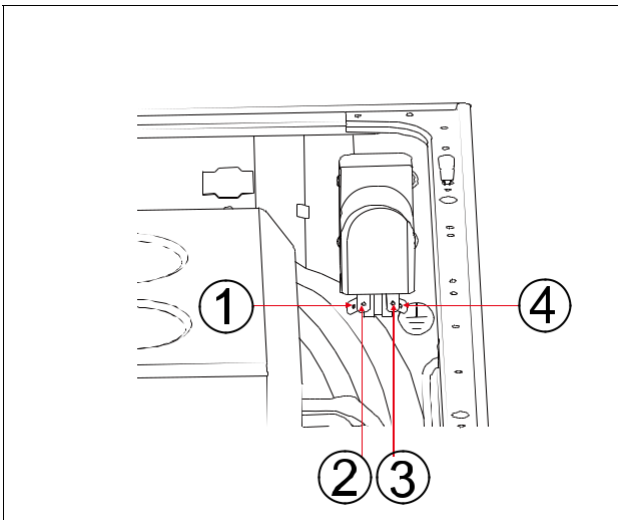
4.Remove and replace valves.

11. DISASSEMBLY INSTRUCTIONS

11.3 FILTER



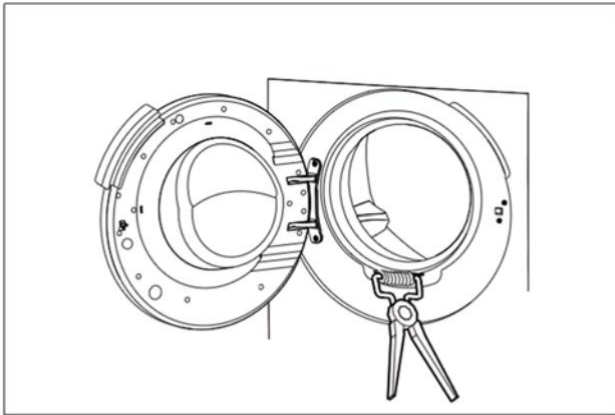
1. Unscrew 2 screws as shown



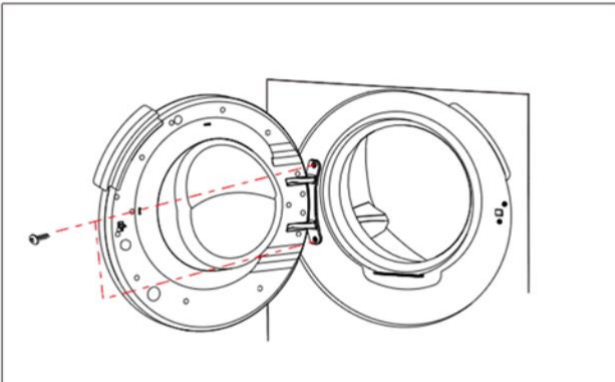
2. Disconnect the filter connector from main harness as ①②③④ shown

11. DISASSEMBLY INSTRUCTIONS

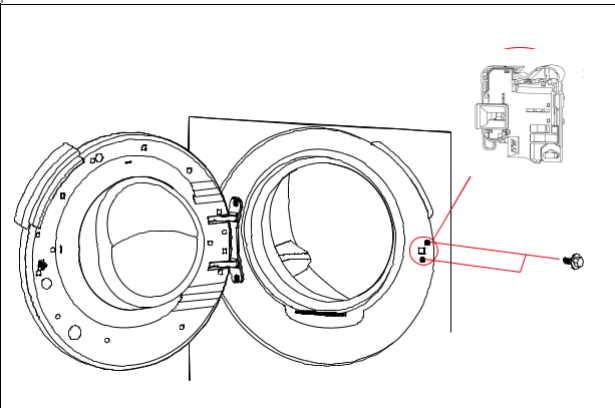
11.4 DOOR ASM



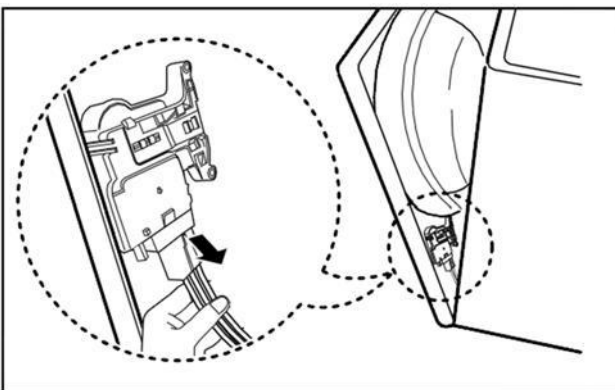
1. Open the door.
2. Disassemble retainer-bellow as shown



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



4. Unscrew 2 screws as shown



5. Disconnect the door lock connector from main harness

11. DISASSEMBLY INSTRUCTIONS

11.5 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.

5.Lift up the front panel, to remove them from latches.

6.Remove and change the front panel.



11. DISASSEMBLY INSTRUCTIONS

11.6 PUMP



First remove the front panel and then:

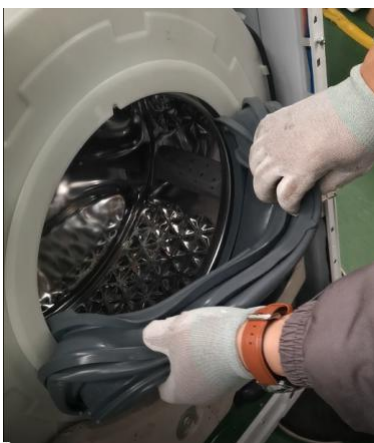
1.Remove 4 screws, which are attaching the pump.

2.Release latches on hoses.

3.Release connector on pump.

4.Remove and replace the pump.

11.7 DOOR SEALING REPLACEMENT



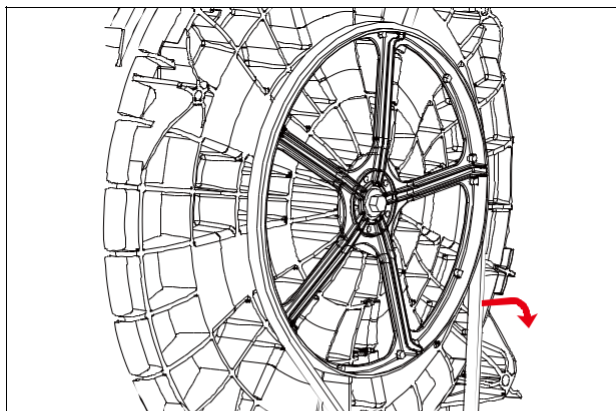
Remove the worktop, front panel, and control panel then:

1. Release clamp.

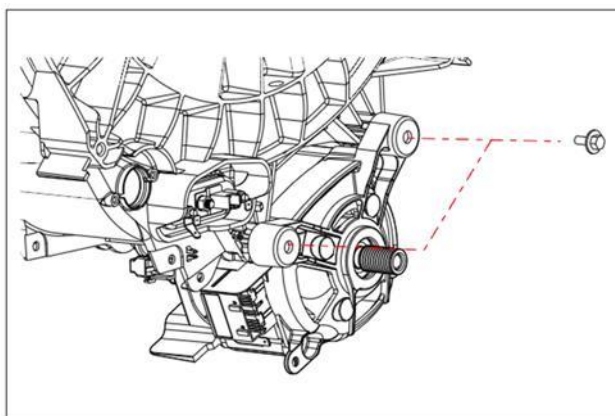
2. Remove and replace the door sealing.

11. DISASSEMBLY INSTRUCTIONS

11.8 MOTOR



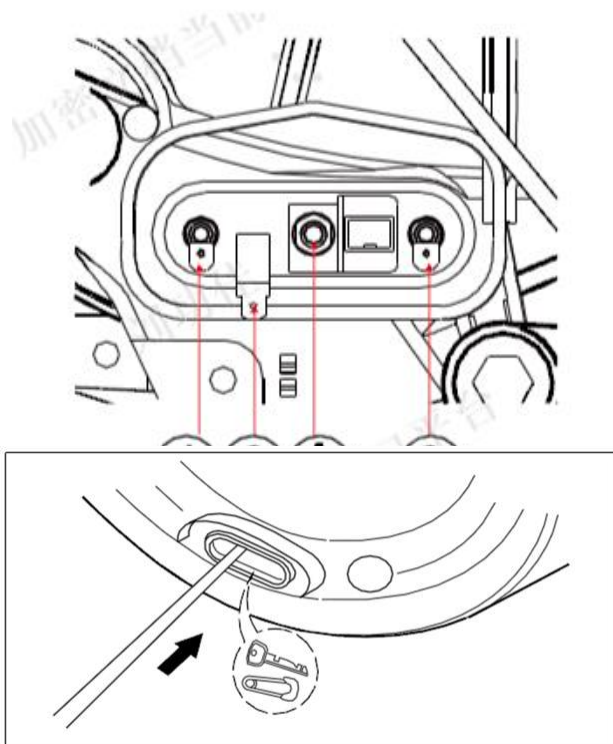
1. Disassemble the belt as shown



2. Unscrew 2 screws as shown,
disassemble the motor

11. DISASSEMBLY INSTRUCTIONS

11.9 HEATER

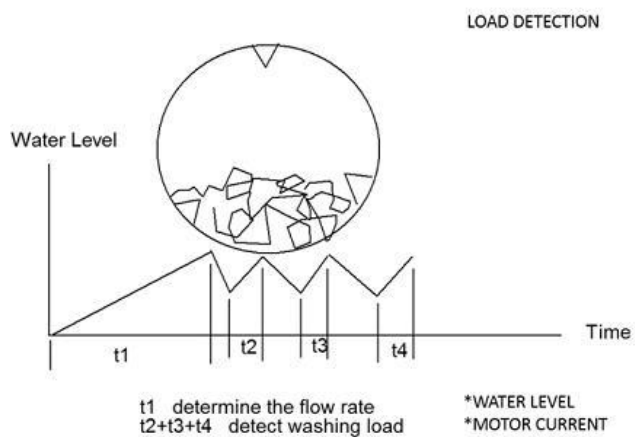


1. Disassemble the rear panel
2. Disconnect the heater connector from main harness as ①②③ shown
3. Unscrew 3 screws as “A” shown
4. When foreign objects (wire, coin, etc.) is stuck between drum and tub, remove foreign objects by inserting a long bar in the opening.

12. WORKING OPERATION

Weight control detection

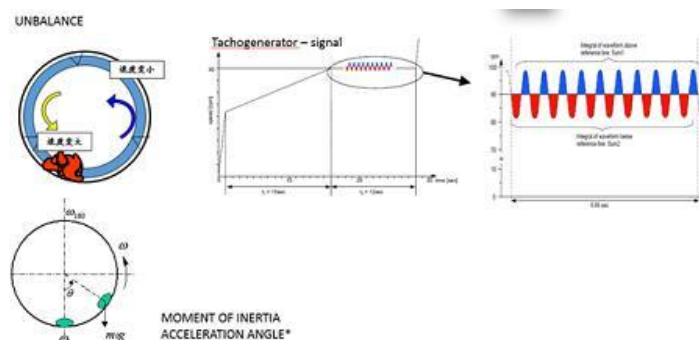
1. The load is detected by the method of changing the water level at a given time. More load, a higher level of water is needed.
2. With the help of motor - motor current, moment of inertia



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



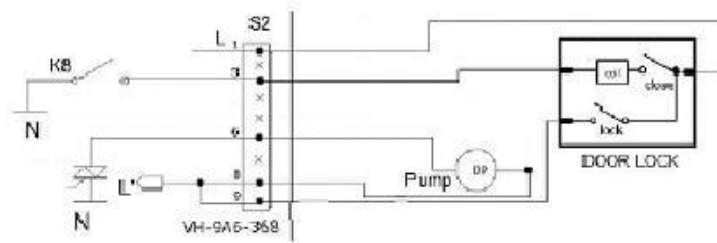
Water level detection

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. If the water level is not reached within a certain period, 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.

Process description:

Diagram illustrating a square frame structure. The frame is composed of a white square (labeled 2) and a red square (labeled 1) inside it. The red square is centered within the white square. The blue lines at the bottom are labeled 3.

