WASHING MACHINE SERVICE MANUAL

CAUTION

READ THIS MANUAL CAREFULLY TO DIAGNOSE TROUBLES CORRECTLY BEFORE OFFERING SERVICE.

MODEL : F1403TD(1~9), F1203TD(1~9), F1003TD(1~9)
WF-7802STD, WF-7803STD



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1. SPECIFICATION

ITEM		F1403TD(1~9), F1203TD(1~9), F1003TD(1~9) WF-7802STD, WF-7803STD	
POWER SUPPLY		220V-240V~, 50Hz	
PRODUCT WEIGHT		64kg	
ELECTRICITY CONSUMPTION	WASHING	140W	
	SPIN	440W	
	DRAIN MOTOR	40W	
	-		
	WASH HEATER	2000W	
REVOLUTION SPEED	WASH	50rpm	
	SPIN	F1403TD(1~9)/WF-7802STD	No Spin/400/600/800/1000/1200/1400
		F1203TD(1~9)/WF-7803STD	No Spin/400/600/800/1000/1100/1200
		F1003TD(1~9)	No Spin/400/600/700/800/900/1000
OPERATION WATER PRESSURE		0.3-10kgf/cm^2 (30-1000kPa)	
CONTROL TYPE		Electronic	
WASH CAPACITY		Refer to the Rating Label	
DIMENSION		600mm(W)x640mm(D)x850mm(H)	
WASH PROGRAM		Cotton, Cotton Quick. Synthetic, Delicate, Hand Wash, Wool, Quick30, Duvet, Baby Care	
RINSE		Normal, Rinse$^+$, Rinse^{++}, Rinse+Hold, Normal+Hold	
DOOR SWITCH TYPE		Bi-Metal type	
WATER LEVEL		10 steps (by sensor)	
RESERVATION		From 3 hours to 19 hours	
SENSING OF THE LAUNDRY AMOUNT		Adapted	
FUZZY LOGIC		Adapted	
DISPLAY OF THE REMAINING TIME		Adapted	
ERROR DIAGNOSIS		10 items	
POWER AUTO OFF		Adapted	
CHILD LOCK		Adapted	
AUTO RESTART		Adapted	
TIME SAVE		Adapted	

2. FEATURES & TECHNICAL EXPLANATION

2-1.FEATURES



■ **Direct Drive System**

The advanced Brushless DC motor directly drives the drum without belt and pulley.



■ **Water Circulation**

Spray detergent solution and water over the load over continu.
Clothes are soaked more quickly and thoroughly during wash cycle.
The detergent suds can be removed more easily by the water shower during rinse cycle. The water circulation system uses both water and detergent more efficiently.



■ **Built-in Heater**

Internal heater automatically heats the water to the best temperature on selected cycles.



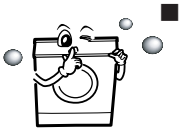
■ **Child Lock**

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



■ **More economical by Intelligent Wash System**

Intelligent Wash System detects the amount of load and water temperature, and then determines the optimum water level and washing time to minimize energy and water consumption.



■ **Low noise speed control system**

By sensing the amount of load and balance, it evenly distributes load to minimize the spinning noise level.



■ **Safety device (Aqua lock)**

Aqua lock System is designed for detecting water leak during operation to prevent water from spilling on the floor.



■ **Steam Washing and Refresh**

Steam Washing features upgraded washing performance with low energy consumption. Refresh cycle reduces wrinkles from dry clothes.
✻ [F1✻03FDS]

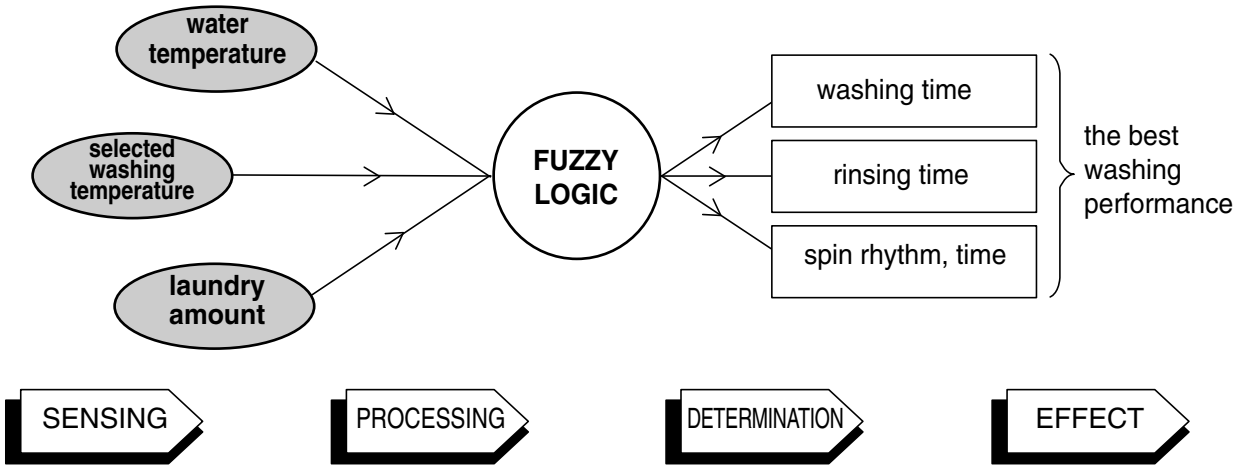


■ **Automatic Wash Load Detection**

Automatically detects the load and optimizes the washing time.

2-2.DETERMINE WASHING TIME BY FUZZY LOGIC

To get the best washing performance optimal time is determined by sensing of water temperature, selected washing temperature and laundry amount.



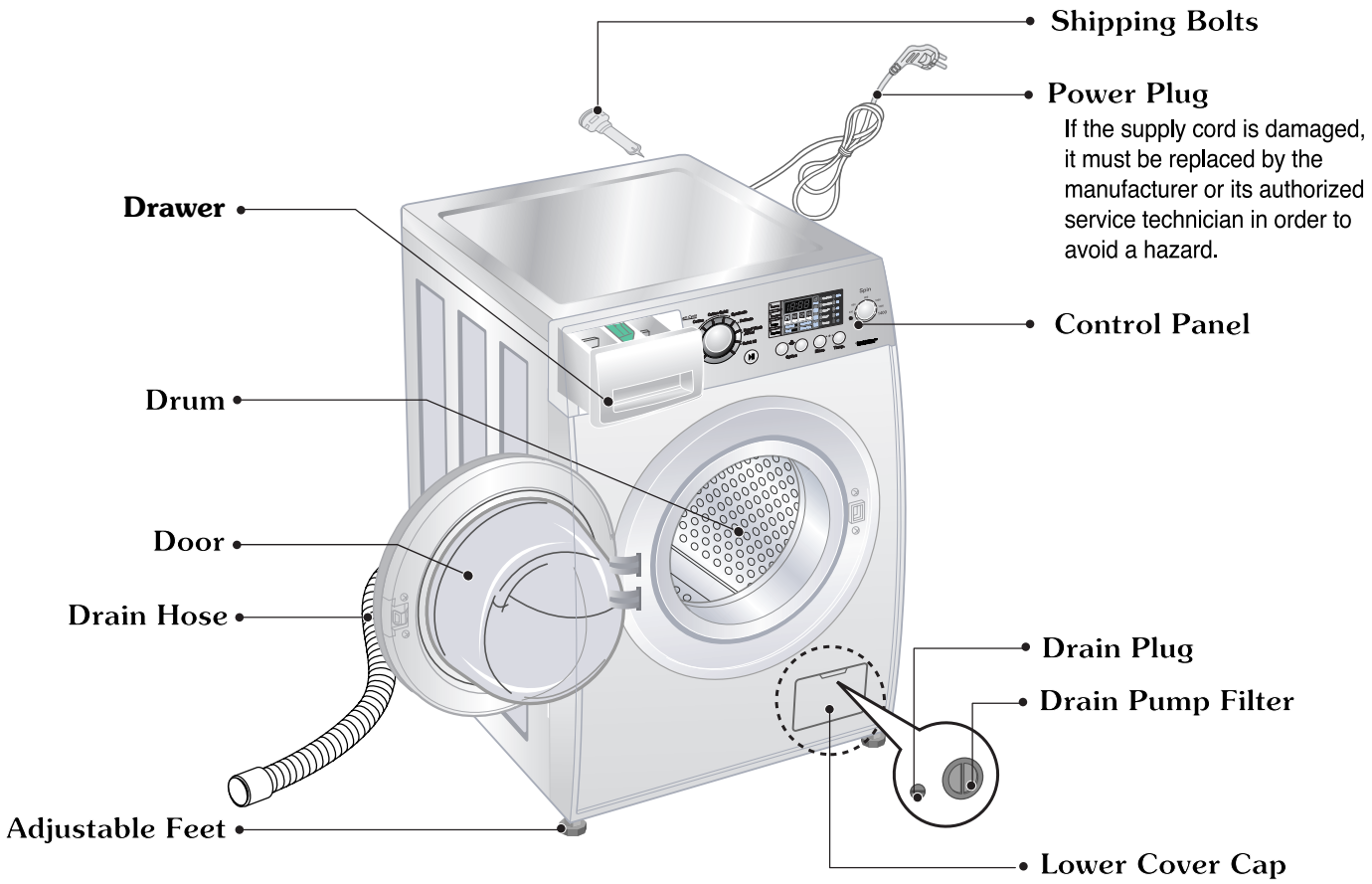
2-3.WATER LEVEL CONTROL

- This model adopts a pressure sensor which can sense the water level in the tub.
- Water supply is stopped when the water level to the preset level, then washing program proceeds.
- Spinning does not proceed until the water in the tub reduces to a certain level.

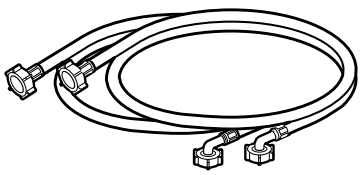
2-4.THE DOOR CAN NOT BE OPENED

- While program is operating.
- While **Door Lock** light turns on.

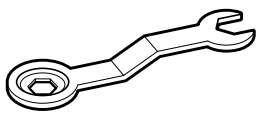
3. PARTS IDENTIFICATION



■ ACCESSORIES



Inlet hose(1EA) ※ Option : Hot/Cold(2EA)



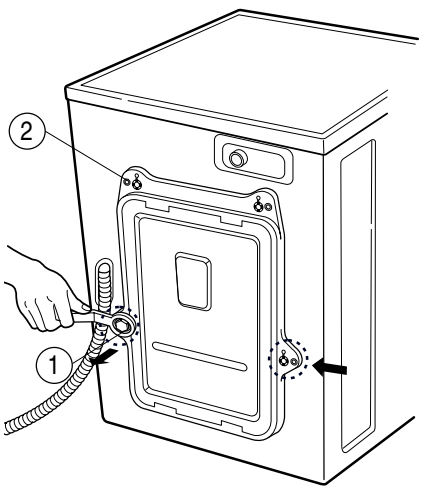
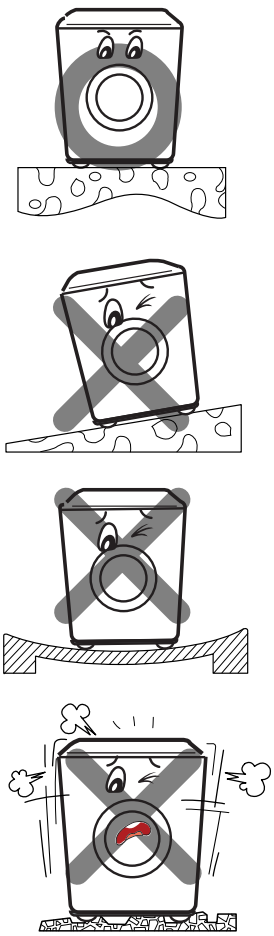
Spanner

4. INSTALLATION

1 Before servicing ask the customer what the trouble is.
2 Check the adjustment(power supply is 220-240V~, remove the transit bolts....)
3 Check the troubles referring to the trouble shooting.
4 Decide service steps referring to disassembly instructions.
5 And then, service and repair.
6 After servicing, operate the appliance to see whether it works O·K or NOT.

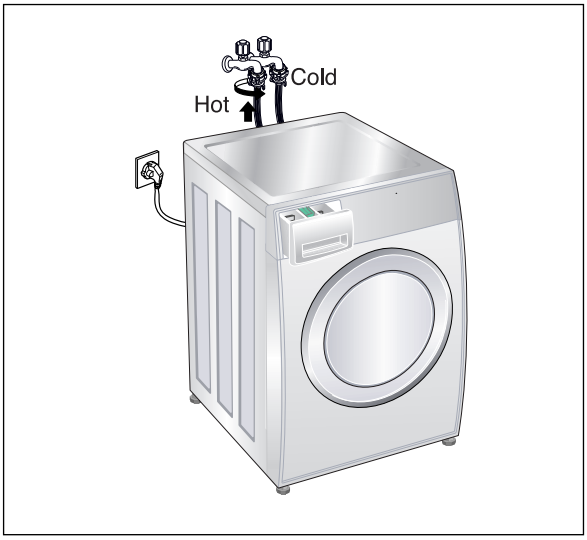
■ STANDARD INSTALLATION

The appliance should be installed as follows.

REMOVE THE TRANSIT BOLTS	INSTALL THE APPLIANCE ON FLAT AND FIRM SURFACE	ADJUST THE HORIZONTAL
• Remove the transit bolts (4EA:①)with supplied spanner. • Keep the transit bolts and spanner for future use. • Insert the provided 4 caps into the hole 		• Turn the leveling feet to set the appliance horizontally.  • The appliance goes up by rotating the feet clockwise. • The appliance come down by rotating the feet counter clockwise.

■ HOW TO CONNECT INLET HOSE

- Check that the rubber packing is inside of the valve connector.
- Connect the inlet hose firmly to prevent leak.



■ CONNECT DRAIN HOSE



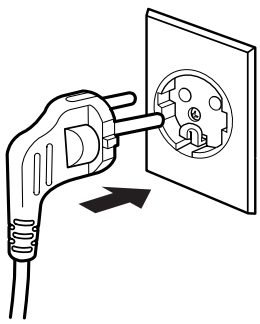
· Make sure that the hose is not twisted.



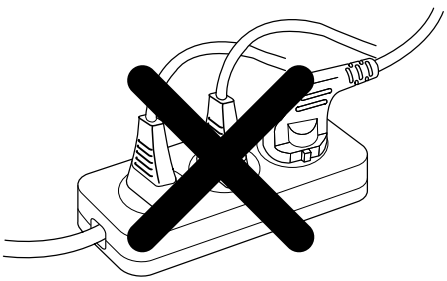
· Avoid submerging the end of the hose.

※ The drain hose should be placed under 100cm from the floor.

■ CONNECT POWER PLUG



· Connect the power plug to the wall outlet.



· Avoid connecting several electric devices,
It may be the cause of a fire.

7 TEST OPERATION

1 Preparation for washing.

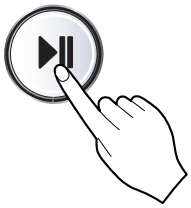


- Connect the power plug to the outlet.
- Connect the inlet hose.

2 Press the POWER button.

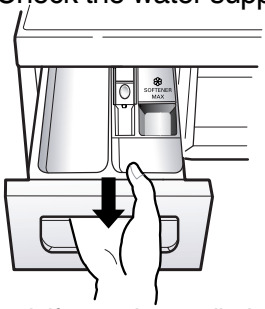


3 Press the Start/Pause button.



- In case of Coloreds program.

4 Check the water supply.



· Check if water is supplied through the detergent dispenser.

5 Check automatic reverse turn.



· Check if the drum rotates clockwise and counterclockwise.

6 Check the water heating.



· Press the Rinse+Medic Rinse button simultaneously and the present temperature will be displayed.

7 Check drain and spin

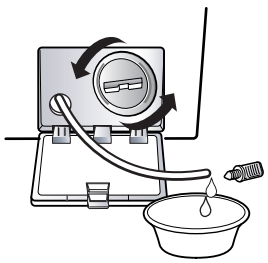
· Turn off Wash and Rinse after pressing the Start/Pause button and start the machine again.
· Check drain and spin.

8 Power off and open the door



· Power off and then power on.
· Check if the door can be opened after 3 minutes.

9 Water removal



· If SVC is needed during check, remove the remaining water by pulling out the hose cap.

5. OPERATION

Cycle Selector

- Rotate the **Cycle selector knob** to select the cycle designed for different types of fabric and soil levels.

Additional programs

- Time Delay : Allows the start of any cycle to be delayed for 3~19 hours.
- Steam Wash : By pressing the Steam Wash button, Steam Function is selected, light on Steam Wash button.
- Intensive : If the laundry is heavily soiled “Intensive” option is effective.
- Medic Rinse : For high effectiveness or more purity in rinse operation you can choose Medic Rinse option. Medic Rinse is default in Baby Care program.



Power

- Use this button to turn the power **On/Off**.

Start/Pause

- Use this button to Start/ Stop the washer.

Option Button

- Pre Wash : If the laundry is heavily soiled, “Pre Wash” Cotton is recommended.
- Soak : Use this mode to wash normal clothes or thick and heavy clothes which are excessively dirty.
- Crease Care : If you want to prevent crease, select Crease Care button.
- Rinse + Spin : Use this option to rinse and then spin.

LED display

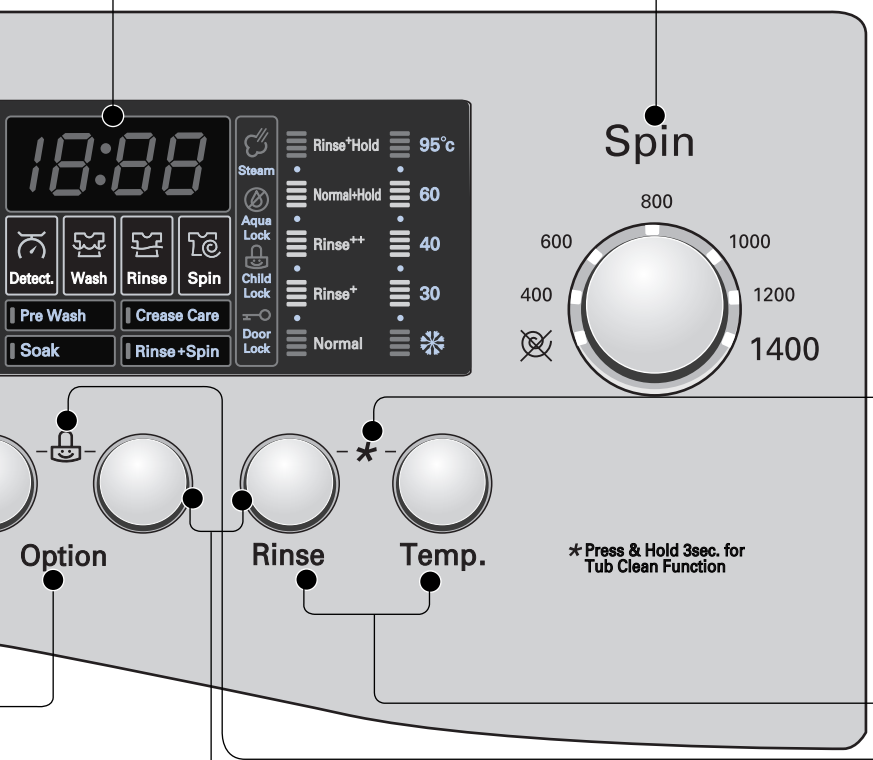
- Display the estimated remaining time (Hour : Minute) to finish.
- In case of abnormal operation, error indications are displayed.
  (IE, OE, UE, dE, tE, FE, PE, LE, AE, PF)
- See troubleshooting guide.

Spin Selector knob

- To change the spin speed, turn the Spin knob to cycle through available options.

Tub Clean

- Tub Clean course can be set by pressing and holding Intensive and Pre Wash button simultaneously.
- Tub Clean is special cycle to clean the inside of the washer.



Rinse, Temp. Button

- Select a water temperature based on the type of load you are washing.
- By pressing the Rinse button, the Rinse type can be selected.

Beep on/off

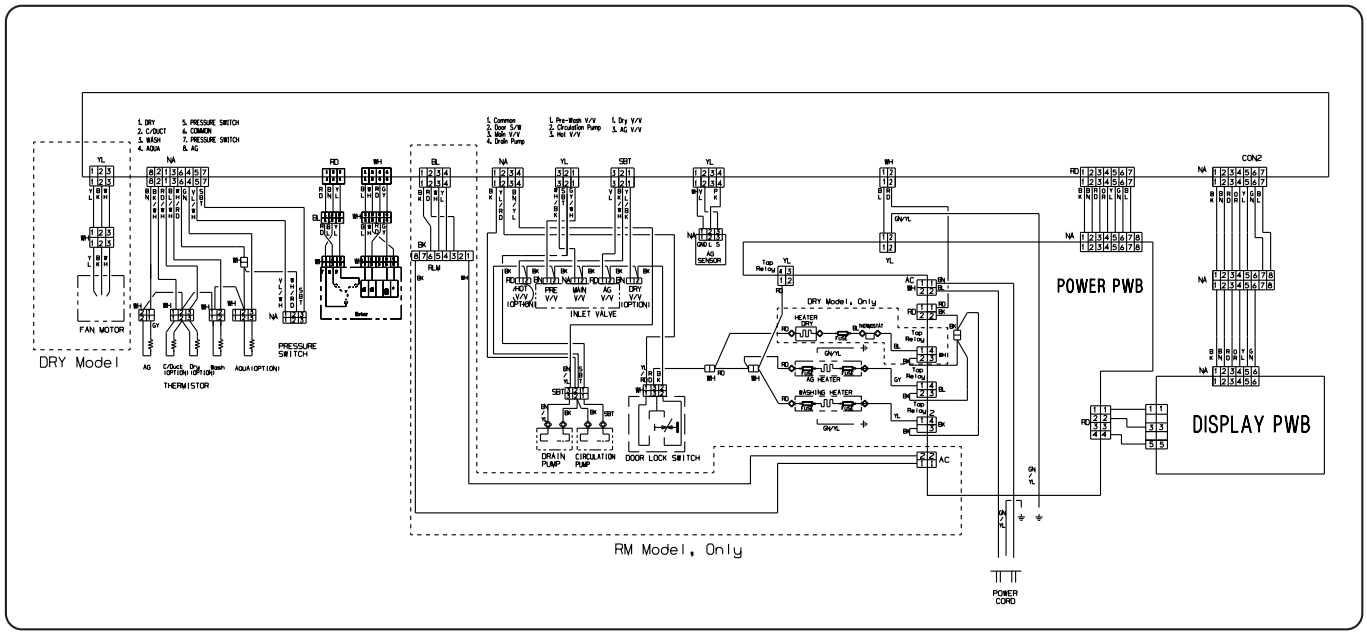
- The Beep on/off function can be set by pressing and holding the Option and Rinse button simultaneouly.



Child Lock

- Use this option to prevent unwanted use of the washer. Press and hold Crease Care and Medic Rinse button for 3 seconds to lock/unlock control.
- When Child lock is set, CHILD LOCK lights and all buttons are disabled except the Power ⏻ button. You can lock the washer while it is operating.

6. WIRING DIAGRAM / PROGRAM CHART



PRGRAM CHART

* Water Supply : W·S * Intermittent Spin : I·S * Disentangle : D·T

COURSE / STEP	Wash								Rinse																Spin			END	AUTO OFF	**Approx Working Time (Minute)
	Pre				Main				1				2				3				Extra & Stain(4~6)									
	W/S	Wash	Drain	I/S	W/S	Wash: Heat	Wash: Steam	Wash: Wash	Drain	I/S	W/S	Rinse	Drain	I/S	W/S	Rinse	Drain	I/S	W/S	Rinse	Drain	I/S	W/S	Rinse	Drain	Spin	D/T			
	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	
TIME (SEC.)	60	(″–)	60	180	120			(″–)	60	180	120	180	60	180	120	180	60	180	120	180	60	180	120	180	60	480	180	20	20	
Cotton		8						12 / 42																						1:51
Synthetic		8						12 / 42																						1:34
Cotton Quick		8						12 / 42																						1:31
Delicate																														1:7
Hand Wash /Wool		8																												56
Allergy Care																														2:7
Quick 30								12																						30
Rinse+Spin																														20
Refresh																														18
Baby Care		8																												2:27
Wash		8						12 / 42																						68
Spin																														15

* ■■■■ Basic Cycle
* ····· Optional Cycle
* Pre-Setting Time : Water Supply - 120 sec.
Drain - 60 sec.

* Wash time is in minutes.
** The total working time will vary with the load size, water temperature and ambient temperature.

7. TROUBLE SHOOTING

7-1.BEFORE SVC CHECKING

■ Be careful of electric shock or disconnecting the parts while trouble shooting.

■ Voltage of each terminal in 220-240V~ and DC while applying an electric current.

7-2.QC TEST MODE.

① Pressing Option(Left) and Rinse button simultaneously.

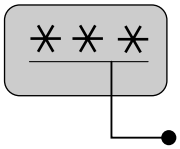
② Press the Power ⏻ button, while the above condition.

③ Press the Start/Pause button as follows.

Number of times the Start/Pause button is pressed	Check Point	Display Status
None	Turns on all lamps and locks the door.	18:88
1 time	Tumble clockwise.	rpm (42~50)
2 times	Low speed Spin.	rpm (55~65)
3 times	High speed Spin.	rpm (125~155)
4 times	Inlet valve for prewash turns on.	Water level frequency (25~65)
5 times	Inlet valve for main wash turns on.	Water level frequency (25~65)
6 times	Inlet valve for hot water turns on.	Water level frequency (25~65)
7 times	Inlet valve for steam turns on.	Water level frequency (25~65)
8 times	Inlet valve for bleach turns on.	Water level frequency (25~65)
9 times	Tumble counterclockwise.	rpm (42~50)
10 times	Heater turns on for 3 sec.	Water temperature
11 times	Circulation pump turns on.	Water level frequency (25~65)
12 times	Drain pump turns on.	Water level frequency (25~65)
13 times	Water level Sensor for Steam	Water level frequency of TSG(0~255)
14 times	Steam Heater turns on for 1.2 sec.	TSG temperature
15 times	Off	-

7-4.HOW TO KNOW THE WATER LEVEL FREQUENCY

* Press the Intensive and Option(Left) button simultaneously.



The digits means water level frequency (10^{-1}kHz)

ex) 241 : Water level frequency = 241 × 10^{-1}kHz
=24.1kHz

7-5.ERROR DISPLAY.

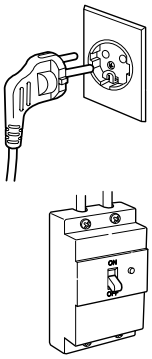
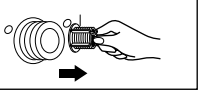
- If you press the Start/Pause button in error condition, any error except 'PE' will disappear and the machine will change into pause status.
- In case of 『PE』, 『tE』, if the error is not resolved within 20 sec., and in case of other errors, if the error is not resolved within 4 min., power will be turned off automatically and the error only will be blinked. But in case of 『FE』, power will not be turned off.

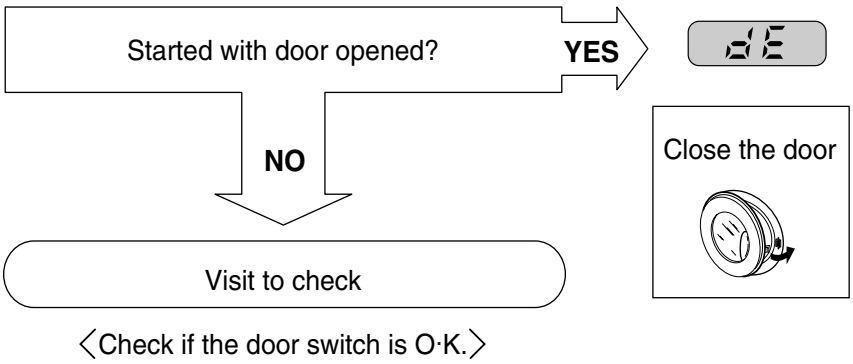
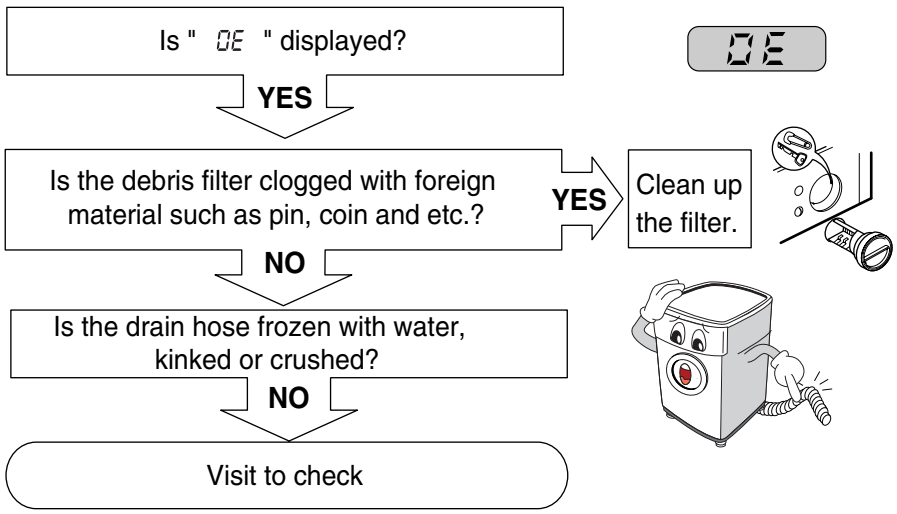
	ERROR	SYMPTOM	CAUSE
1	WATER INLET ERROR		• Not reached to the water level(246)within 8 minutes after water supplied or not reached to the preset water level within 25 minutes.
2	DRAIN ERROR		• Not fully drained within 10 minutes.
3	OVERFLOW ERROR		• Water is over flowing(over 8 level). ※ If "FE" is displayed, drain pump operates to drain water automatically.
4	SENSOR PRESSURE S/W ERROR		• The sensor pressure switch is out of order.
5	DOOR OPEN ERROR		• In case of operating the reservation function or the other function with door opened. Close the door, then the error display is resolved. • The door switch is out of order.
6	IMBALANCE ERROR		• The appliance is tilted. • Laundry is gatherd to one side.
7	HEATING ERROR		• The THERMISTOR is out of order.

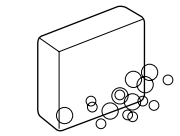
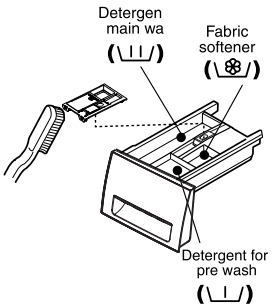
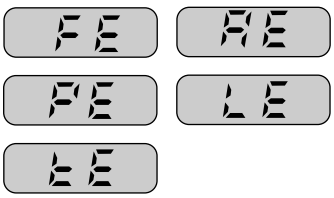
	ERROR	SYMPTOM	CAUSE
8	LOCKED MOTOR ERROR		• The connector in the LEAD WIRE ASSEMBLY is not connected to the connnector of STATOR ASSEMBLY ☞ Reconnect or repair the connector • The hall sensor is out of order/defective. ☞ Replace the STATOR ASSEMBLY
9			• Water leaks
10	POWER FAILURE		• The washer ecperienced a power failure

8. ERROR DIAGNOSIS AND CHECK LIST

8-1.DIAGNOSIS AND ANSWER FOR ABNORMAL OPERATION

SYMPTOM	GUIDE FOR SERVICE CALL
NO POWER	Is the power plug connected firmly to 220-240V~ outlet? YES Power failure? or Breaker opened? NO Visit to check 
WATER INLET TROUBLE 	Is " 1E " displayed? YES Is the tap opened? YES Is the tap frozen? NO Is the water supply shut-off? NO Is filter in the inlet valve clogged with foreign material? YES Clean the filter of inlet valve NO Visit to check  

SYMPTOM	GUIDE FOR SERVICE CALL
• DOOR DOES NOT OPEN • ERROR DISPLAYED ON THE PROGRAM 	
• DRAIN TROUBLE 	
• POWER FAILURE 	Restart the cycle

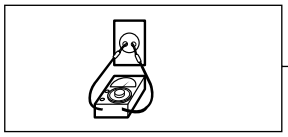
SYMPTOM	GUIDE FOR SERVICE CALL
◦ Suds overflow from the appliance. (In this condition, wash and spin do not operate normally)	Is low-sudsing detergent for the drum washing machine used? **YES** Is the proper amount of detergent used as recommended? **YES** Recommend to reduce the using amount of detergent.  LOW-SUDSING ✳ This appliance has the automatic suds sensing function which operates under much suds condition for good rinse and preventing overflow. ✳ When much suds are sensed, suds removing function such as drain, water input and pause will operate without rotating the drum.
◦ No effect of softener	Is softener put in the correct compartment of the drawer? **YES** Is the drawer closed during wash? **YES** Is the softener cap clogged? **YES** Explain how to use softener **< Clean the compartment for softener >** 
 	Visit to check

8-2.FAULT DIAGNOSIS AND TROUBLE SHOOTING

CAUTION

1. Be careful of electric shock or disconnecting the parts while trouble shooting.
2. First of all, check the connection of each part terminal with wiring diagram.
3. If you replace the PWB ASSEMBLY, Put in the connectors correctly.

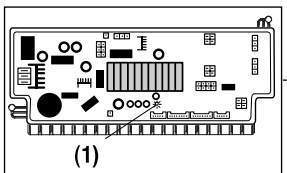
NO POWER



When measuring the voltage of the outlet, is the voltage AC 220-240V~?

NO → Check the fuse?

YES

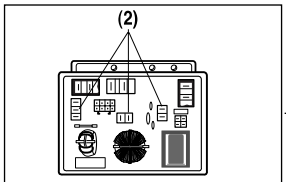


<PWB ASSEMBLY (MAIN)>

Is the led(1) on?

NO → Replace MAIN PWB ASSEMBLY

YES

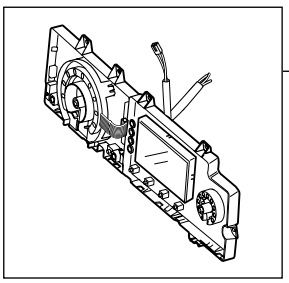


<PWB ASSEMBLY (Power)>

Is connector(2) disconnected or disassembled?

YES → Reconnect the PWB ASSEMBLY

NO



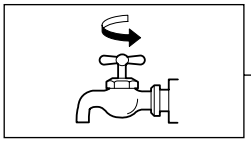
Is wire of the PWB ASSEMBLY disconnected?

YES → Reconnect the PWB ASSEMBLY

NO

Replace PWB ASSEMBLY

NO WATER SUPPLY



Is water supply shut-off?

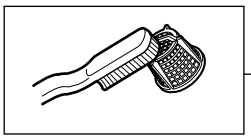
NO

Is the tap opened? — **NO** → Open the tap.

YES

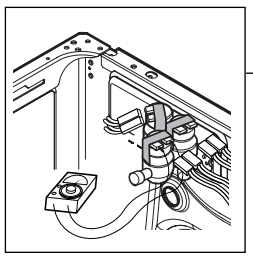
When you press both Intensive button and Option(Left) button simultaneously, is the water level frequency below 240? — **YES** → Check the AIR CHAMBER and the tube clogged with impurity.

NO



Is the inlet valve filter clogged with impurity? — **YES** → Clean the filter.

NO

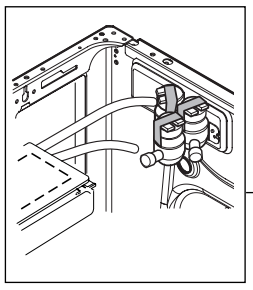


Is resistance between each terminal of INLET VALVE ASSEMBLY is 2~8 kΩ? — **NO** → Replace the INLET VALVE ASSEMBLY.

YES

Check the voltage of the inlet valve connector 220-240V~.
(Refer to 7-2 QC TEST MODE) — **NO** → Replace the MAIN PWB ASSEMBLY

DETERGENT DOES NOT FLOW IN

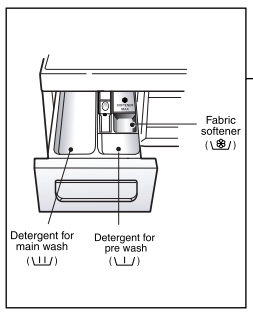


Is water supplied? — **NO** → Refer to 「NO WATER SUPPLY」

YES

Are replaceptacles correctly connected to the terminals of the INLET VALVE ASSEMBLY? — **NO** → Check the wiring on the dispenser.

YES



Is detergent put in the correct compartment of the drawer? — **NO** → Put the detergent in the correct position

PRE+MAIN

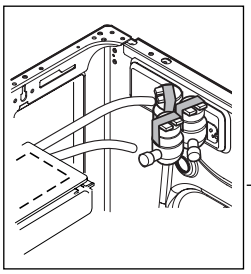
MAIN WASH

● : Detergent

YES

Is the detergent hardened? — **YES** → Clean the drawer.

SOFTENER DOES NOT FLOW IN



Is water supplied?

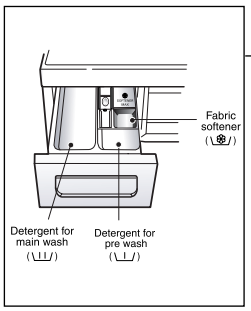
NO → Refer to 「NO WATER SUPPLY」

YES

Are receptacles correctly connected to the terminals of the INLET VALVE ASSEMBLY?

NO → Check the wiring on the dispenser.

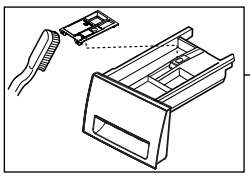
YES



Is softener put in the correct compartment of the drawer?

NO → Put it in the correct compartment.

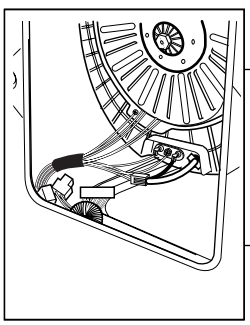
YES



Is the softener cap clogged?

YES → Clean the cap and drawer.

ABNORMAL SOUND



Is the motor bolt loosened?

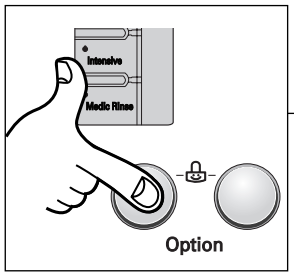
YES → Fix the bolt tightly.

NO

Is there friction noise from the motor?

YES → Replace the STATOR ASSEMBLY or ROTOR ASSEMBLY.

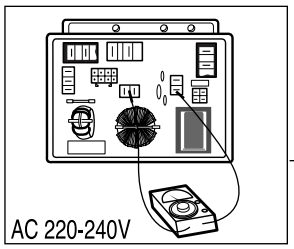
HEATING WITHOUT WATER



When pressing Intensive and Option(Left) at the same time after draining, is the water level frequency 248 ~ 262 or more?
When pressing Rinse and Temp. buttons at the same time while wash, is the water level frequency between 230 - 243?

NO → Replace the S.PRESSURE SWITCH ASSEMBLY

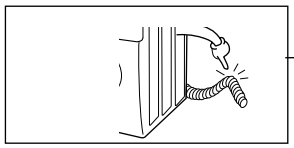
YES



Checking voltage between two pins (Connector RD ① & YL ②) as press the POWER button is the voltage 220-240V~?

YES → Replace the POWER PWB ASSEMBLY

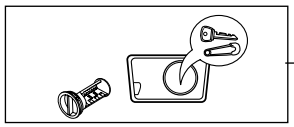
DRAIN MALFUNCTIONING



Is the drain hose twisted or frozen?

YES → Repair the DRAIN HOSE ASSEMBLY.

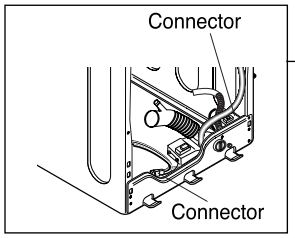
NO



Is the impeller of the drain pump clogged?

YES → Remove foreign material.

NO



Is the connector disconnected, disassembled?

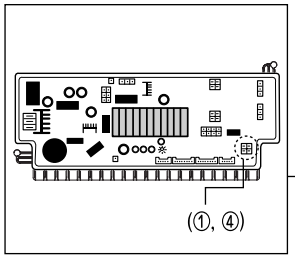
YES → Reconnect or repair the connector

NO

Is the coil of the drain pump cut-off?
(resistance of coil is 80~150Ω)

YES → Repair the DRAIN PUMP ASSEMBLY.

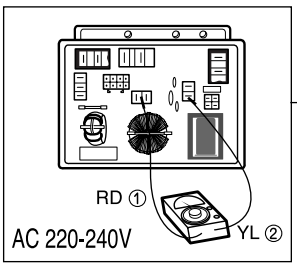
NO



When checking voltage between connectors (①, ④)on spinning, is the voltage 220-240V~ as the figure?

NO → Repair the MAIN PWB ASSEMBLY.

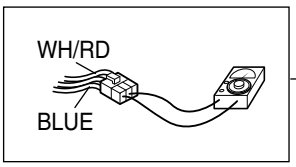
WASH HEATER TROUBLE



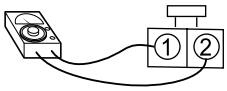
When checking the voltage between connector during whites washing. is the voltage 220-240V~?

NO → Replace the MAIN PWB ASSEMBLY

YES ↓

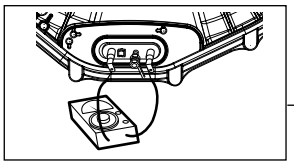


After power off,is the resistance of wire connectors between 10Ω~30Ω?



YES → Normal

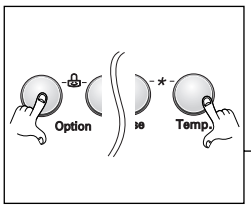
NO ↓



After power off and the heater terminal is disconnected, is the resistance 10~30Ω?

NO → Replace the HEATER ASSEMBLY

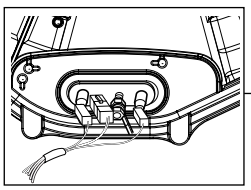
HEATING CONTINUOUSLY ABOVE THE SETTING WATER TEMPERATURE



When pressing Option(Left) and Temp. button simultaneously during, is the displayed temperature is over 10˚C higher than the selected temperature?
(Refer to the 7-2 QC Test Mode)

NO → Check if inlet hose is connected to a hot faucet ; otherwise, replace PWB ASSEMBLY(Main)

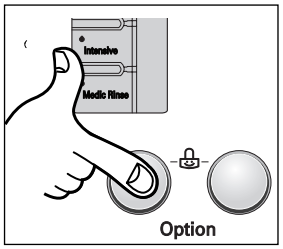
YES ↓



Is the resistance between Thermistor Comectors 2.5kΩ~180kΩ?

NO → Replace Heater Assembly

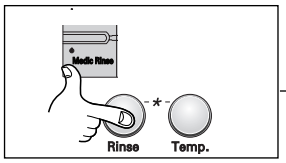
SPIN TROUBLE



Check on the spinning, is the frequency of the water level 248 or more. The frequency can be checked by pressing the Intensive and Option(Left) buttons at the same time on the program.

NO → Check the S.PRESSURE SWITCH ASSEMBLY or HOSE (Pressure). If the problem is on the S.PRESSURE SWITCH ASSEMBLY or the HOSE, replace the S.PRESSURE SWITCH ASSEMBLY or the HOSE.

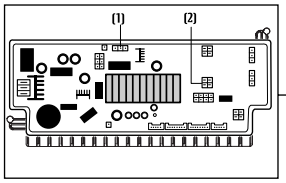
YES



When pressing Rinse, Medic Rinse and POWER buttons at the same time after power off, press the Start/Pause button 1 times, is the drum low speed spin?

YES → Normal

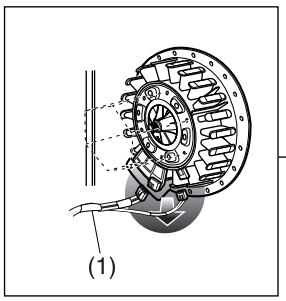
NO



Is it disconnected, or disassembled?
[Red:3pin(1), GY:4pin(2)]

YES → Correct the connector.

NO



Check the motor connector, is the resistance of the terminal same as the figure?

MOTOR TERMINAL (1)

①	②	③

Resistance of terminal:

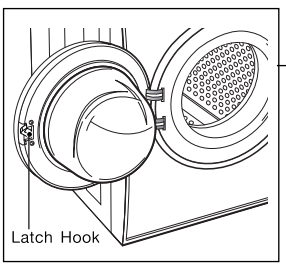
①~② / ②~③ / ③~① : About 5Ω~15Ω

NO → Replace the STATOR ASSEMBLY

YES

Replace the MAIN PWB ASSEMBLY

DRAIN TROUBLE



Does the spring of Latch Hook actuate?

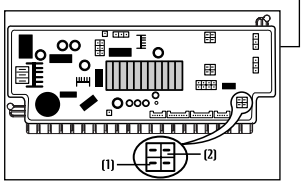
NO → Replace Door Assembly.

YES

Is there clicking sound once or twice when the **START/PAUSE** button is pressed to start the cycle?

NO → Check the DOOR SWITCH ASSEMBLY Connector and MAIN PWB ASSEMBLY [Black(1), Brown/Yellow(2)].

YES



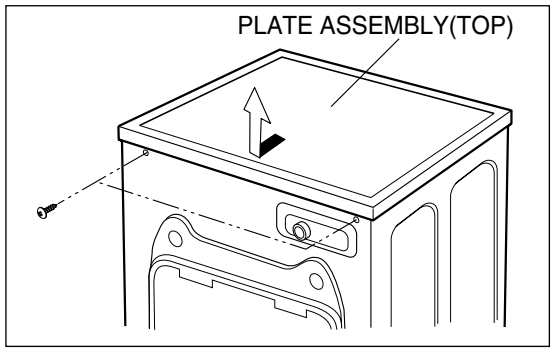
Is DOOR SWITCH ASSEMBLY broken?

YES → Replace the DOOR SWITCH ASSEMBLY.

9. DISASSEMBLY INSTRUCTIONS

∗ Disassemble and repair the parts after pulling out power cord from the outlet.

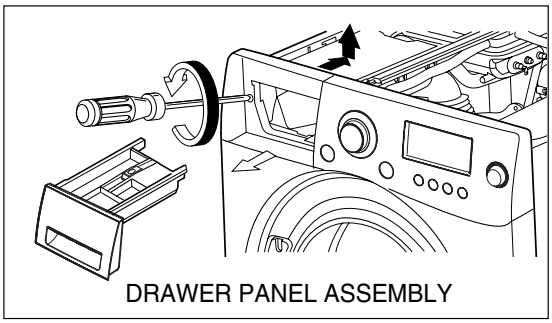
CONTROL PANEL



① Unscrew the screws on the top plate.

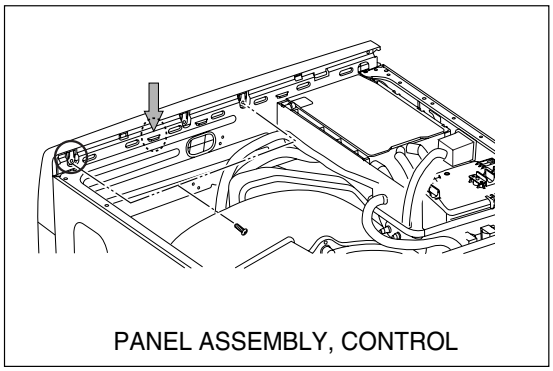
② The plate assembly(Top) is pulled back and then upward to arrow direction.

③ The cover(Inner) is disassembled.



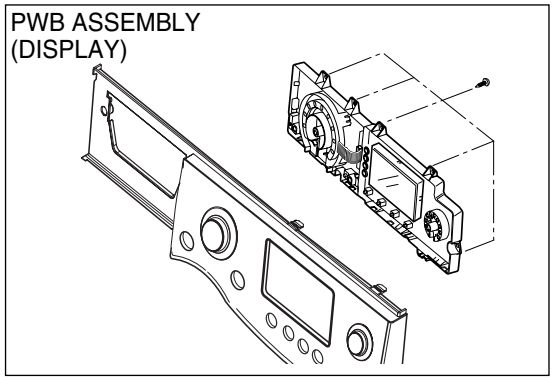
① Pull out the drawer and unscrew 2 screws.

② Lift the side the Control Panel Assembly and pull it out



① Two screws is unscrewed.

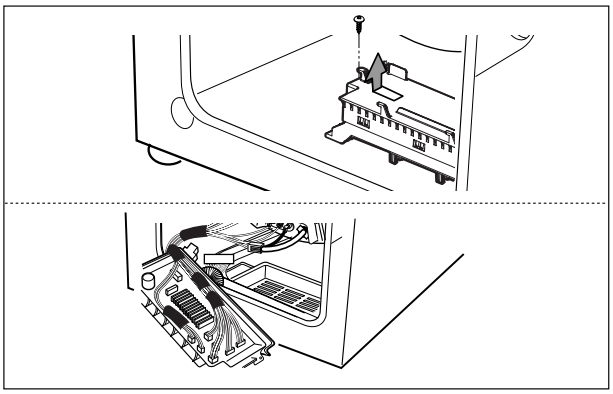
② Push out PANEL ASSEMBLY,CONTROL after Push the hook below.



① The PWB assembly(Display) is disconnected.

② When 7 screws are unscrewed on the PWB insulator and the PWB assembly(Display) is disassembled from the PWB insulator.

PWB ASSEMBLY(MAIN)



① The back cover is removed.

② One screw is unscrewed.

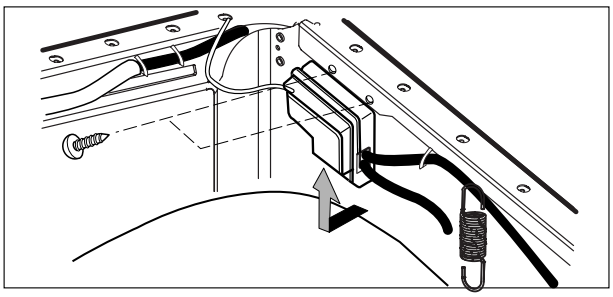
③ Pull the PWB assembly(Main) to arrow direction

④ Two screws is unscrewed.

⑤ The cover of PWB assembly(Main) is removed.

⑥ Disconnect connector from the wiring.

PWB ASSEMBLY(POWER)



① The plate assembly(Top) disassembled.

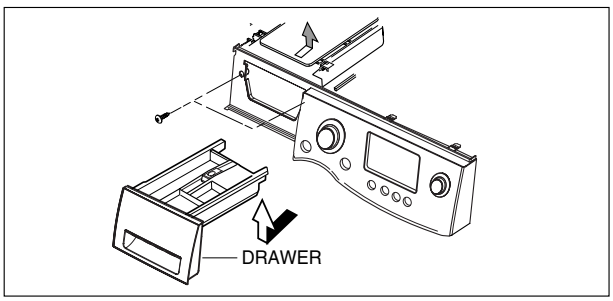
② The cover of PWB assembly(Power) is removed.

(Push the hook bellow.)

④ Disconnect connector from the PWB.

⑤ Two screw is unscrewed.

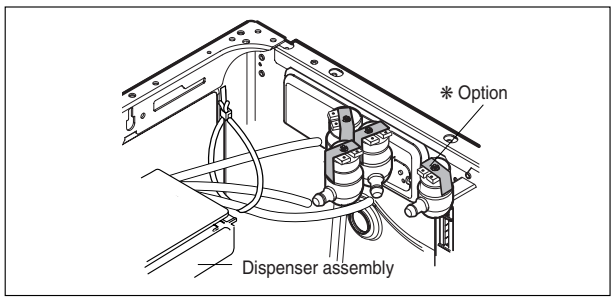
DISPENSER ASSEMBLY



① The plate assembly(Top) are disassembled.

② Pull the drawer to arrow direction.

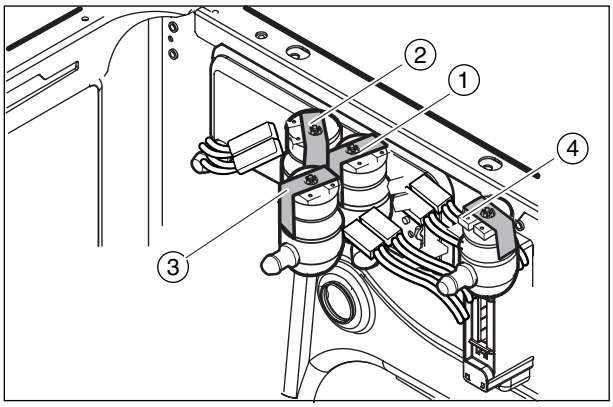
③ Two screws are unscrewed.



① The hose clamps and the hose are disassembled.

② The ventilation bellows are disassembled on the tub.

INLET VALVE



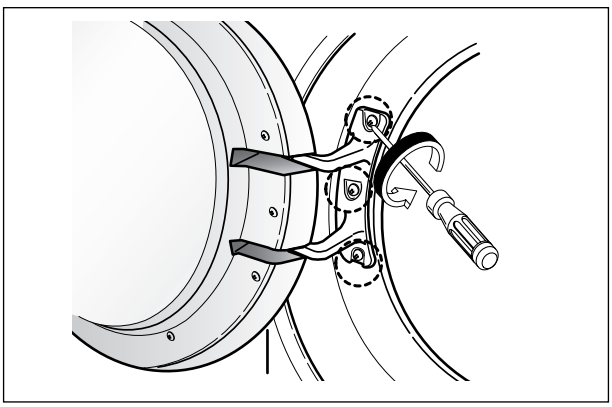
① Disconnect the wiring connector.

② Remove the valve by two screws of the valve holder.

* When reconnecting the connector

VALVE ① (STEAM)	VIOLET/BLACK-BLACK
VALVE ② (PRE-WASH)	WHITE/BLACK-BLACK
VALVE ③ (NORMAL-WASH)	GRAY/BLACK
VALVE ④ (HOT)	BLACK/WHITE

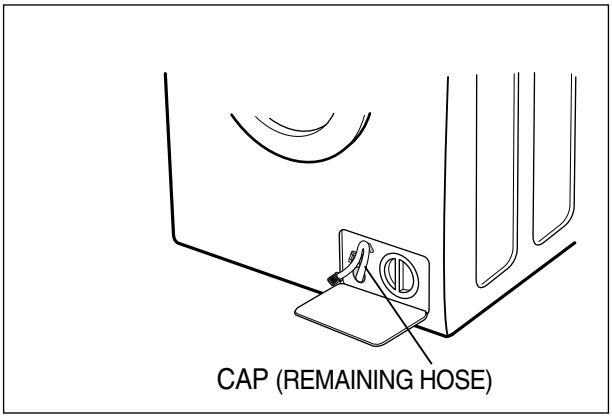
DOOR



① Open the door completely.

② Remove the three screws from the hinge.

※ When removing the Door Assembly, it is necessary to hold the Bracket that is inner of the Cabinet Cover.

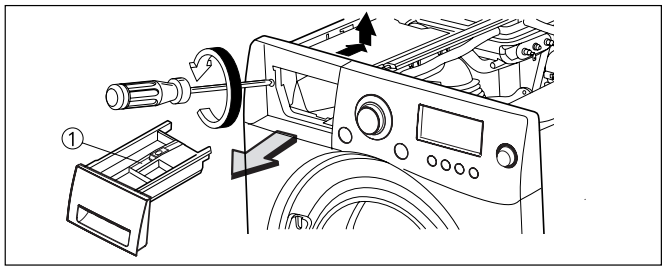


Removing method of remained water

Pull it out from hose.

※ First, prepare a bucket to put in the remained water.

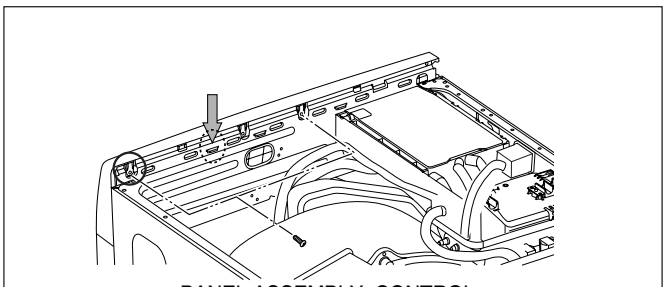
CABINET COVER



① The plate assembly(Top) is disassembled.

② Pull out the drawer and unscrew 2 screws.

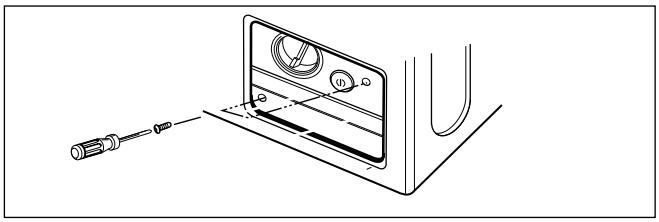
③ Lift the side the Control Panel Assembly and pull it out



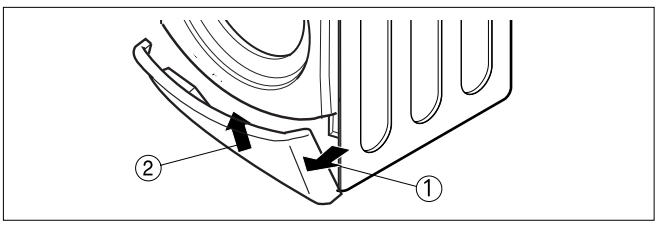
PANEL ASSEMBLY, CONTROL

① Two screws is unscrewed.

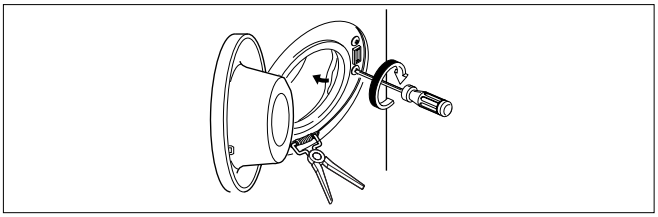
② Push out PANEL ASSEMBLY,CONTROL after Push the hook(①, ②) below.



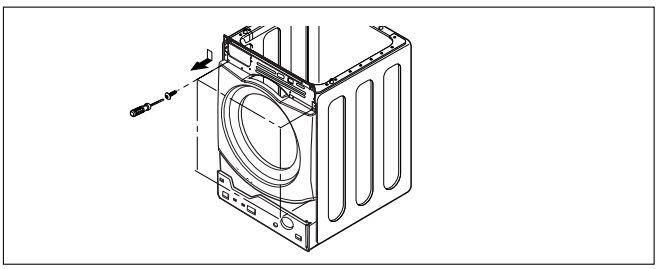
③ Unscrew the screws from the lower cover.



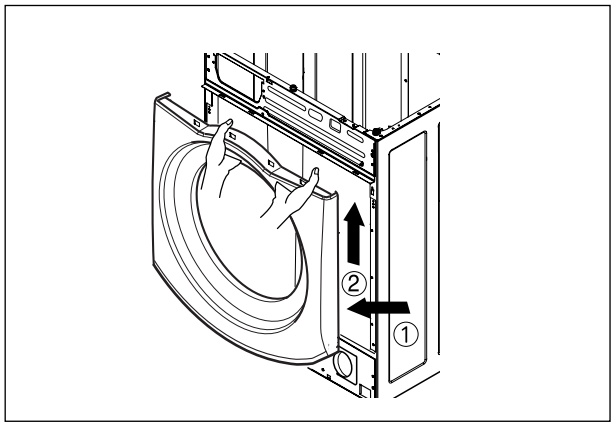
② The cabinet cover clamp is removed by special jig for service and the gasket is released.



③ Two screws are unscrewed.



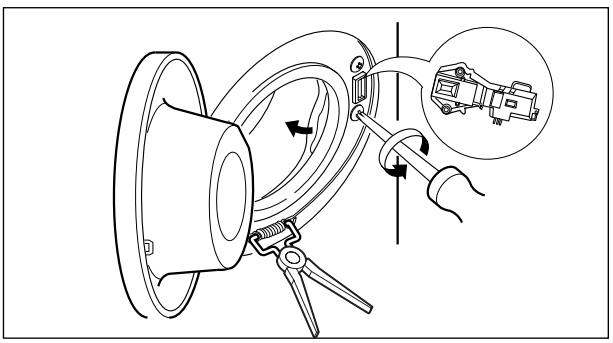
④ Unscrew all the screws on the upper and lower sides of the CABINET COVER.



① Lift and separate the cabinet cover.

※ **NOTE**: When assembling the CABINET COVER, connect the Door S/W connector.

SWITCH ASSY, DOOR LOCK

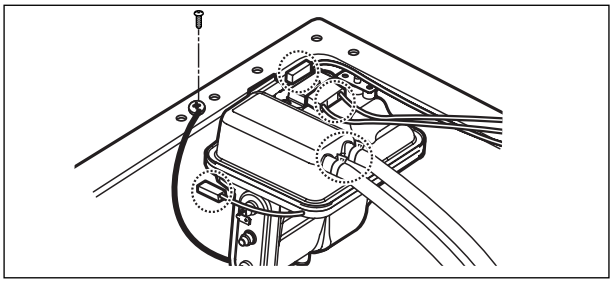


① The cabinet cover clamp is removed and the gasket is released.

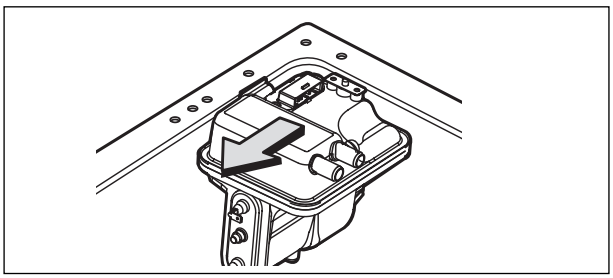
② Two screws are unscrewed.

③ The Door Lock S/W is disconnected form the wiring connector and the strap.

TSG (TURBO STEAM GENERATOR) [F1∗03FDS]

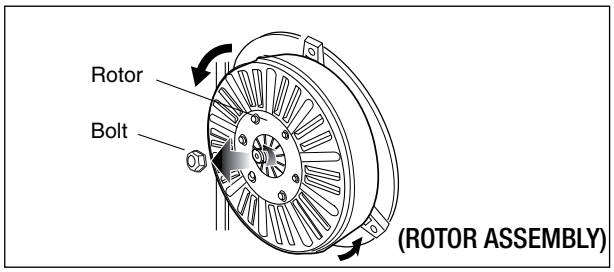


① Remove the housing coupled the TSG (Connector, Hoses, Earth Screw)



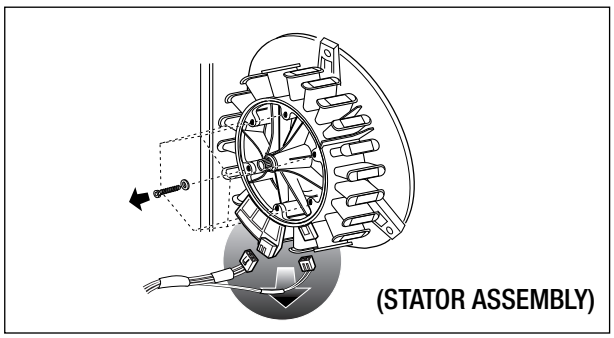
② Taking ou the screw of the TSG.

ROTOR ASSEMBLY, STATOR ASSEMBLY, FRICTION DAMPER



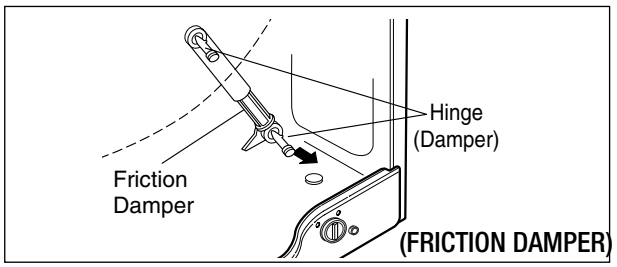
① Remove the back cover.

② After loosening the bolt, Rotor, pull out the rotor.



① Remove the 6 bolt from the stator.

② Disconnect the 2 connectors.



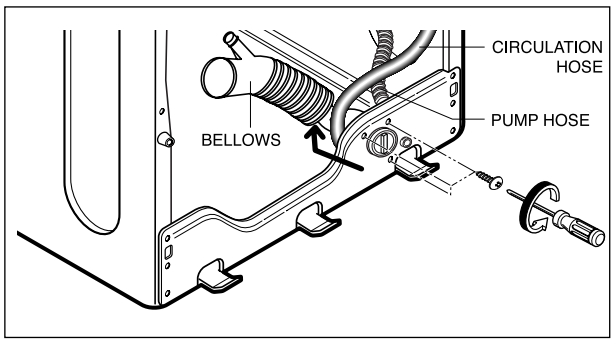
① Remove the hinges (Damper) at the Tub.

② The Hinge(Damper) at the base is pulled off pressing on the snaps at the sharp end.

③ The hinge at the base is pulled off.

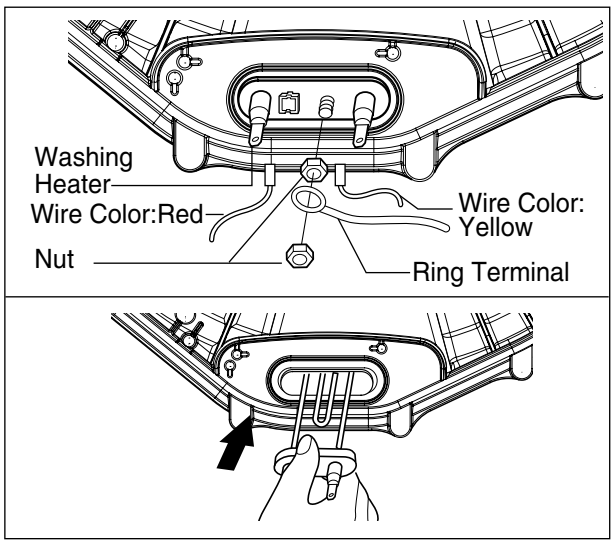
(To arrow direction)

PUMP



① Remove pump outlet hose.
② Remove tub pump bellows.
③ Remove cap(Remaining Hose).
④ Disconnect the wiring.
⑤ Three screws are unscrewed from the cabinet.
⑥ Remove the pump to arrow direction.

HEATER

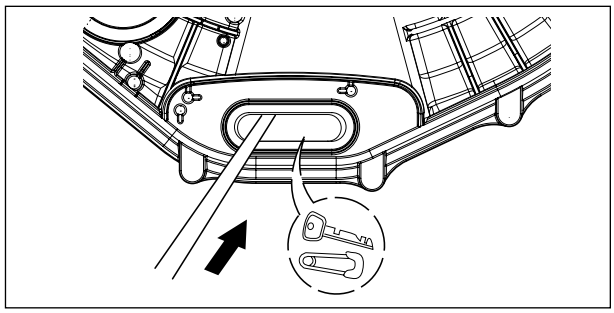


① Loosen the nut.
② Remove washing heater by pulling out.

CAUTION

When assembling the washing heater, insert the heater to heater clip on the bottom of tub and check the position of wire color.

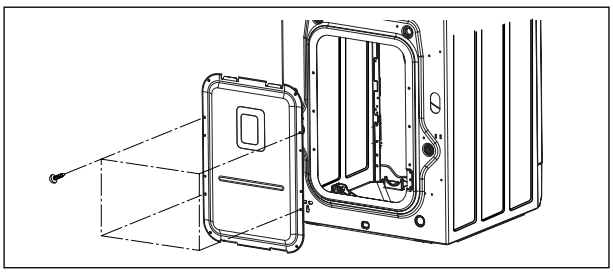
WHEN FOREIGN OBJECT STUCK BETWEEN DRUM AND TUB



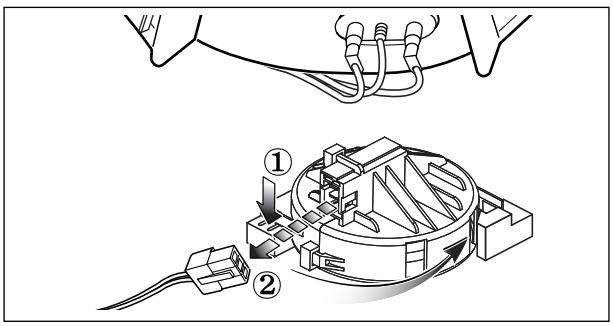
① Remove washing heater.

② Remove the foreign object(wire,coin,etc) by inserting long bar in the hole.

SWITCH ASSEMBLY, SAFETY



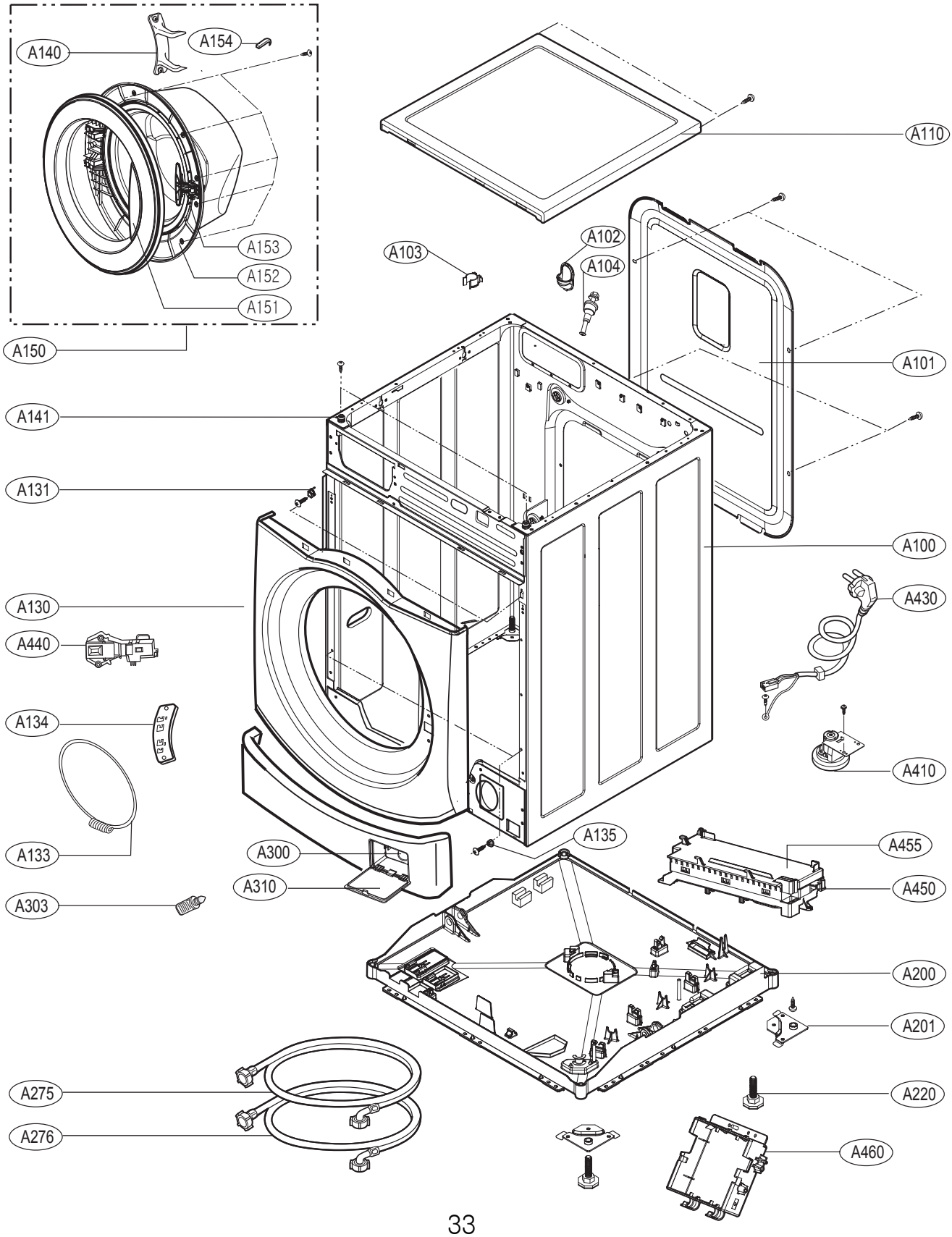
Unscrew 4 screws from the back cover.



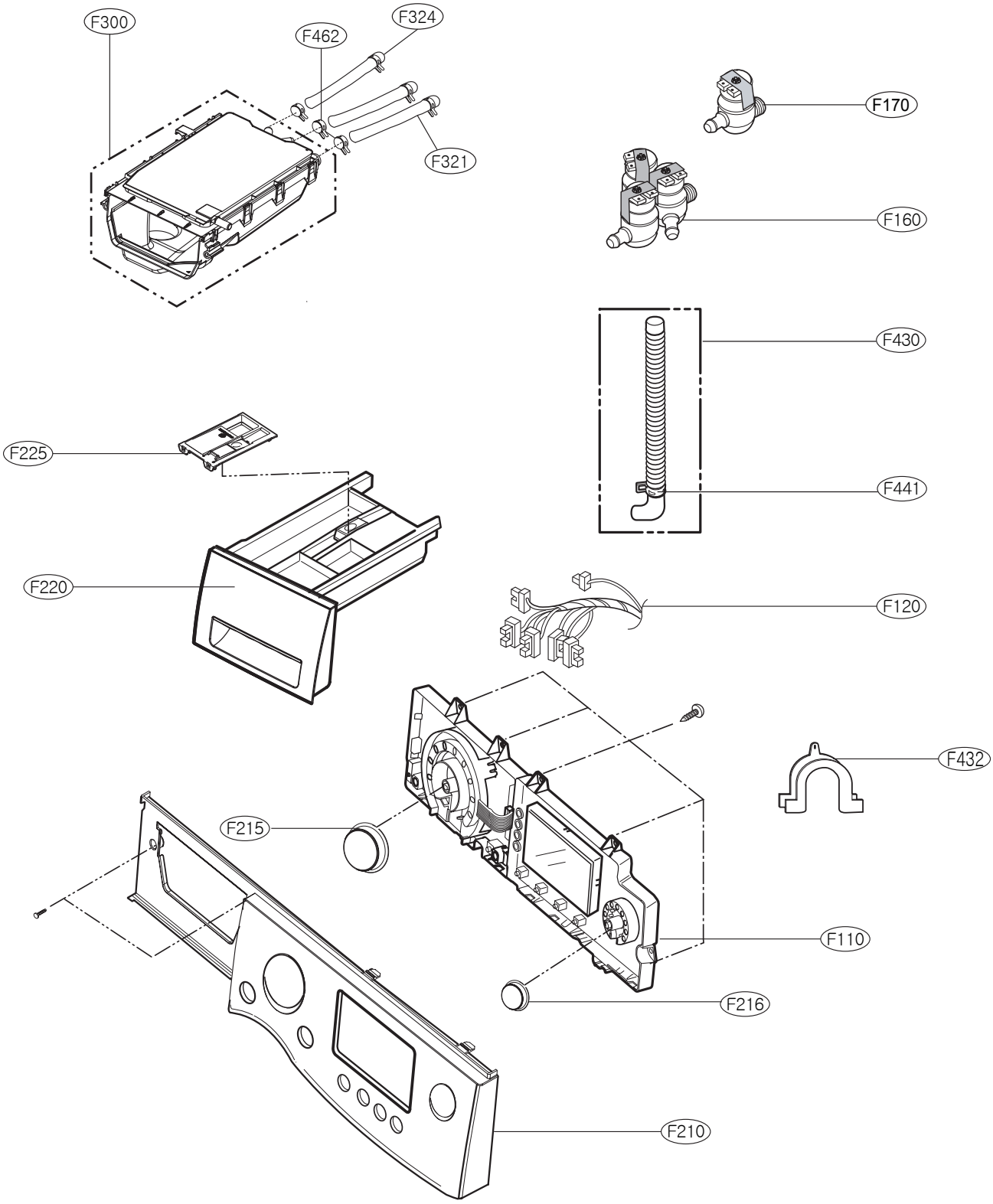
Disconnect the wiring connector.
First, Press hook and turn the safety switch assembly switch assembly safety.

10. EXPLODED VIEW AND PART LIST

10-1.THE PART LIST OF CABINET ASSEMBLY



10-2 THE EXPLODED VIEW OF CONTROL PANEL & DISPENSER ASSEMBLY



10-3 THE EXPLODED VIEW OF DRUM & TUB ASSEMBLY

