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WASHING MACHINE SERVICE MANUAL

▲ CAUTION

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

MODEL : 796.488*2800



P/No.: MFL30599120

CONTENTS

1. SPECIFICATIONS	3
2. FEATURES & TECHNICAL EXPLANATION	4
3. PARTS IDENTIFICATION	6
4. INSTALLATION	7
5. OPERATION	10
6. WIRING DIAGRAM / PROGRAM CHART	12
7. TROUBLESHOOTING	13
7-1. BEFORE PERFORMING SERVICE	13
7-2. QC TEST MODE.....	13
7-3. HOW TO CHECK THE WATER LEVEL FREQUENCY	13
7-4. ERROR DISPLAY	14
8. ERROR DIAGNOSIS AND CHECK LIST	16
8-1. DIAGNOSIS AND SOLUTION FOR ABNORMAL OPERATION	16
8-2. FAULT DIAGNOSIS AND TROUBLESHOOTING	19
9. DISASSEMBLY INSTRUCTIONS.....	26
10. EXPLODED VIEW	34
10-1. CABINET & CONTROL PANEL ASSEMBLY.....	34
10-2. DRUM & TUB ASSEMBLY	35
10-3. DISPENSER ASSEMBLY	36

1. SPECIFICATIONS

ITEM		F1141FD(0~9)
POWER SUPPLY		120V ~ 60Hz
PRODUCT WEIGHT		190 lbs. (86 kg)
ELECTRIC POWER CONSUMPTION	WASHING	280 W
	DRAIN MOTOR	80 W
	WASH HEATER	1000 W
REVOLUTION SPEED	WASH	42 rpm
	SPIN	1070 rpm
CYCLES		9
WASH / RINSE TEMPERATURES		5
SPIN SPEEDS		5
OPTIONS		Prewash, Stain Cycle, Quick Cycle, Easy Spin, Extra Rinse, My Cycle, Delay Wash
CUSTOM PROGRAM		Incorporated
WATER CIRCULATION		Incorporated
OPERATIONAL WATER PRESSURE		4.5-145 psi (30-1000 kPa)
CONTROL TYPE		Electronic
WASH CAPACITY		3.16 cu.ft (3.60 cu.ft.IEC)
DIMENSIONS		27" (W) X 29 -1/2" (D) X 42 -3/4" (H), 49 -4/5" (D, door open)
DELAY WASH		up to 12 hours (796.4884*) and up to 13 hours (796.4885*)
DOOR SWITCH TYPE		PTC + Solenoid
WATER LEVEL		5 steps (by sensor)
LAUNDRY LOAD SENSING		Incorporated
ERROR DIAGNOSIS		Incorporated
AUTO POWER OFF		Incorporated
CHILD LOCK		Incorporated
RLM ENABLE		-

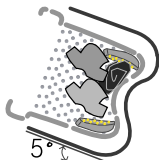
2. FEATURES & TECHNICAL EXPLANATION

2-1. FEATURES



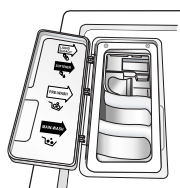
■ Direct Drive System

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



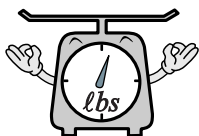
■ Tilted Drum and Large Door Opening

Tilted drum and large opening make it possible to load and unload clothing more easily.



■ Time-Released Dispenser

Detergent, fabric softener and bleach are dispensed separately at the right time during wash cycle.



■ Automatic Wash Load Detection

Automatically detects the load and optimizes the washing time.



■ Built-in Heater

The internal heater automatically heats the water to the optimum temperature on selected cycles.

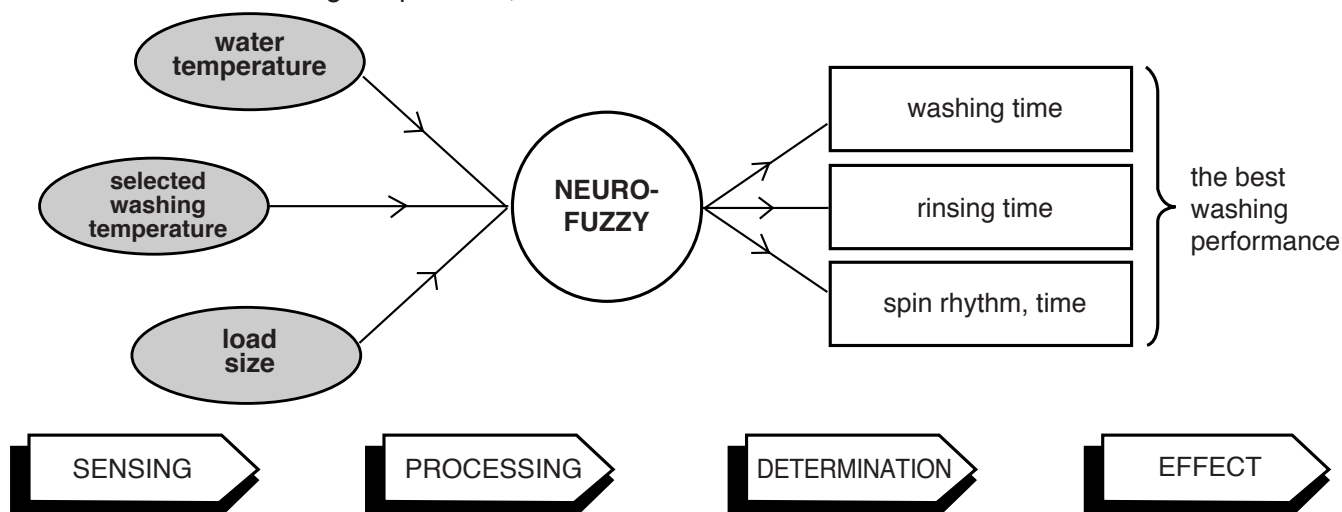


■ Child Lock

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

2-2. NEURO FUZZY WASHING TIME OPTIMIZATION

To get the best washing performance, optimal time is determined by the water temperature, the selected washing temperature, and the size of the load.



2-3. WATER LEVEL CONTROL

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

2-4. DOOR CONTROL

- The door can be opened by pulling the door handle whenever washer is not in operation.
- When the cycle is completed, the DOOR LOCKED light will turn off.
- If a power failure has occurred while in operation, the door will unlock after 5 minutes.
- Clicking sounds can be heard when the door is locked/unlocked.



2-5. THE DOOR CAN NOT BE OPENED

- While program is operating
- When a power failed and power plug is taken out in operation
- While Door Lock lights turn on.
- While the motor is in the process of inertial rotating, through the operation is paused.

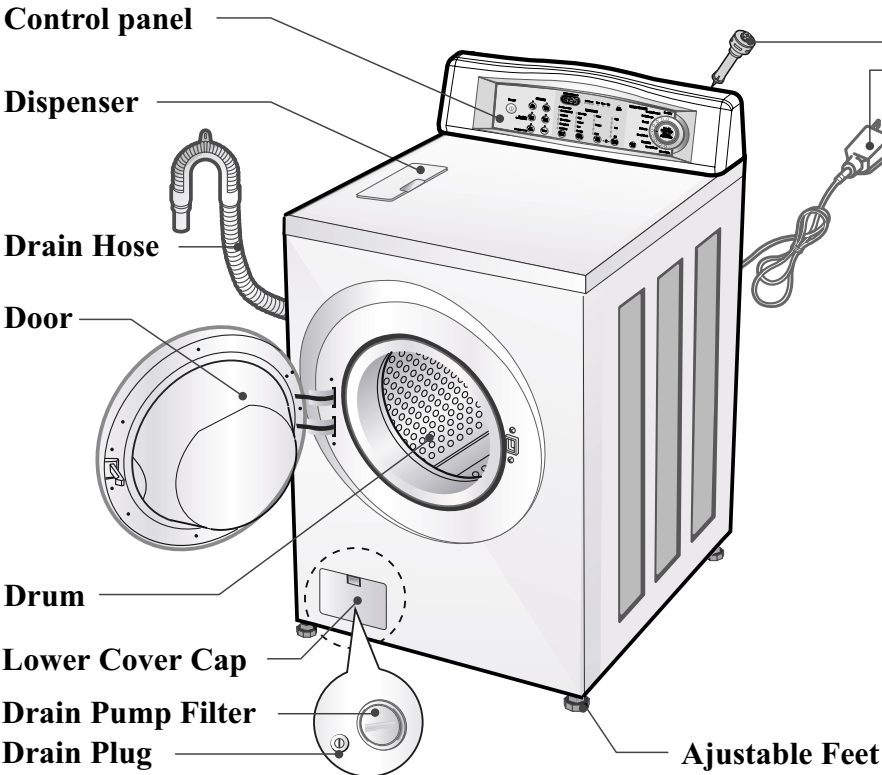
2-6. DOOR LOCKED LAMP LIGHTS

- When the frequency of water level is lower than 22.9 kHz
(It can be canceled when the frequency is more than 23.8 kHz)
- When the temperature inside the tub is higher than 45 °C and water level is not 25.5 kHz
(It can be canceled when the water level is 25.5 kHz or the temperature inside the tub is lower than 40 °C)

2-7. CHILD LOCK

- Use this option to prevent unwanted use of the washer. Press and hold OPTION button for 3 seconds to lock/unlock control.
- When Child lock is set, “ ” blinks and all buttons are disabled except the Power  button. You can lock the washer while it is operating.

3. PARTS IDENTIFICATION

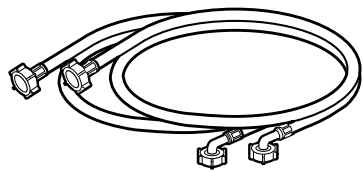


Shipping Bolts Power Plug

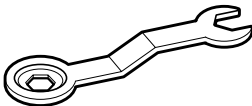
• If the supply cord is damaged, it must be replaced by the manufacturer or its authorized service technician in order to avoid a hazard.



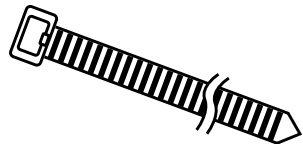
■ ACCESSORIES



Hot/Cold(1 each)
Hose



Wrench

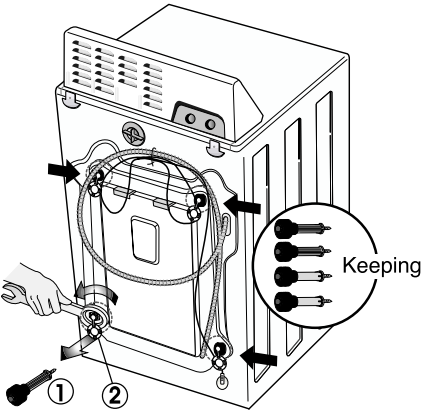
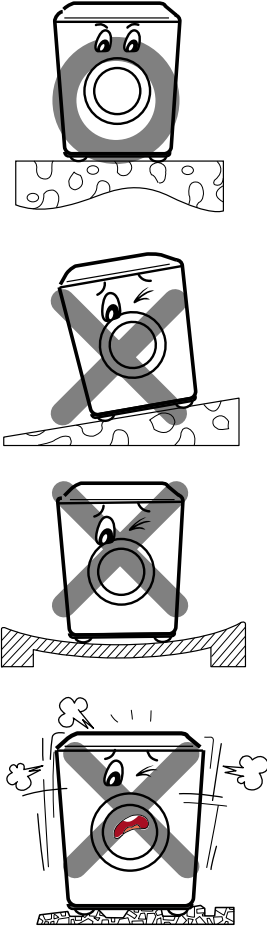
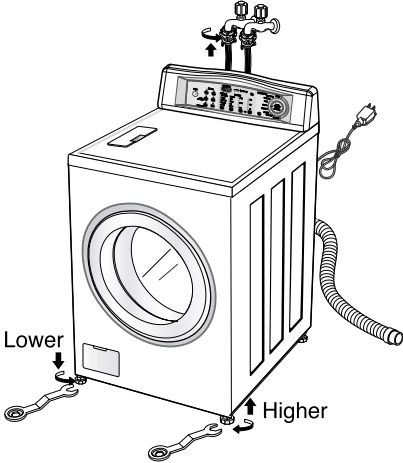


Tie strap
to secure drain hose to standpipe
inlet hose, or laundry tub

4. INSTALLATION

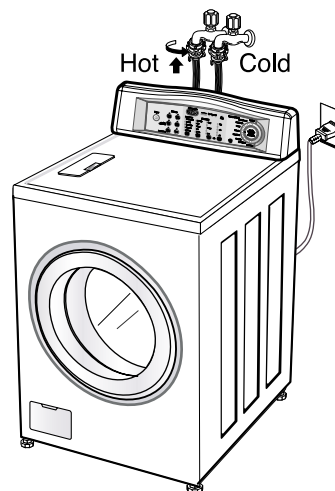
- ❶ Before servicing, ask the customer what the trouble is.
- ❷ Check the setup (power supply is 120V AC, remove the transit bolts....).
- ❸ Check with the troubleshooting guide.
- ❹ Plan your service method by referring to the disassembly instructions.
- ❺ Service the unit.
- ❻ After servicing, operate the appliance to see whether it functions correctly.

■ STANDARD INSTALLATION
 The appliance should be installed as follows:

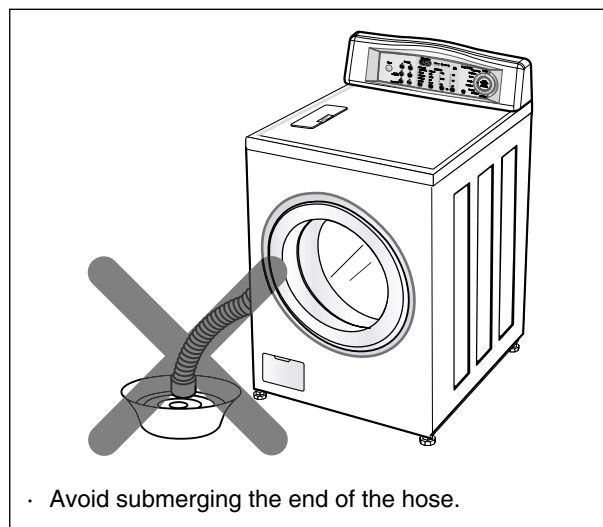
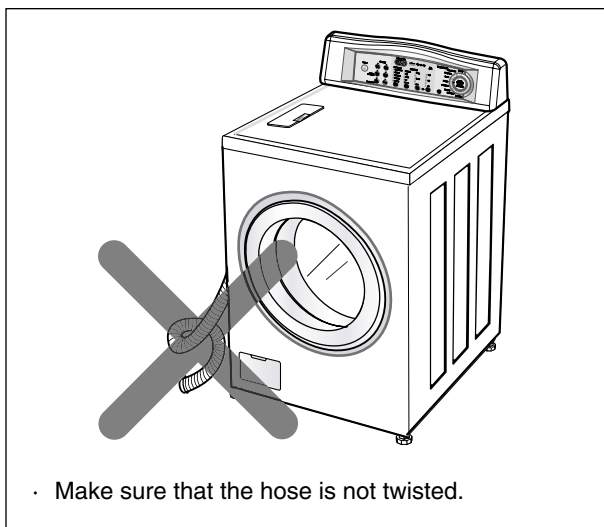
REMOVE THE TRANSIT BOLTS	INSTALL THE APPLIANCE ON A FLAT AND FIRM SURFACE	ADJUST THE LEVELING
<ul style="list-style-type: none"> Remove the transit bolts (4 EA: ❶) with the supplied wrench. Keep the transit bolts and spanner for future use. Insert the 4 caps (provided) into the hole. 		<ul style="list-style-type: none"> Turn the leveling feet to adjust the appliance horizontally.  <ul style="list-style-type: none"> The appliance goes up by rotating the feet clockwise. The appliance come down by rotating the feet counterclockwise.

■ HOW TO CONNECT THE INLET HOSE

- Verify that the rubber washer is inside of the valve connector.
- Connect the inlet hose firmly to prevent leaks.

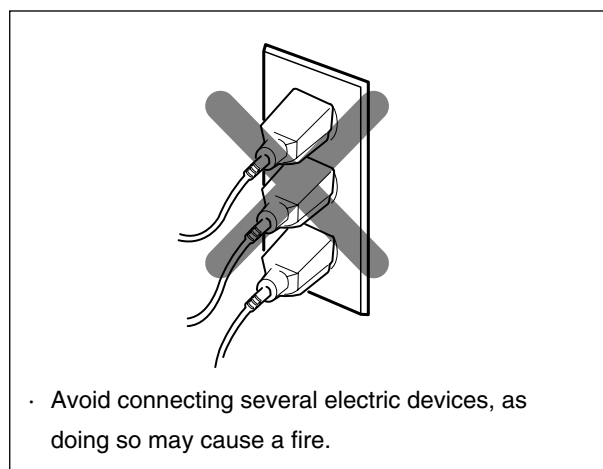
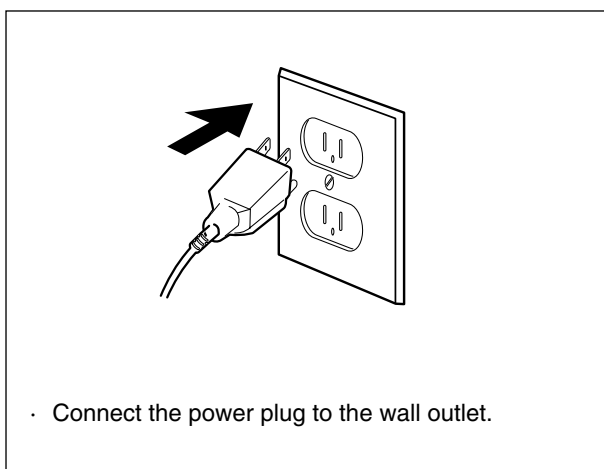


■ CONNECT THE DRAIN HOSE



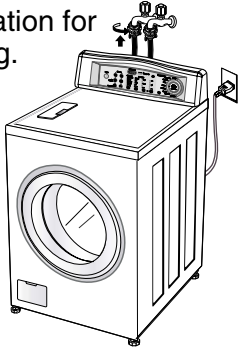
※ The end of the drain hose should be placed less than 96" from the floor.

■ CONNECT POWER PLUG



7 TEST OPERATION

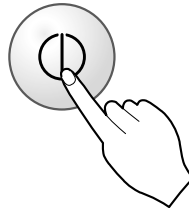
1 Preparation for washing.



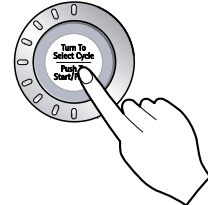
- Connect the power plug to the outlet.
- Connect the inlet hose.

2 Press the POWER button.

Power

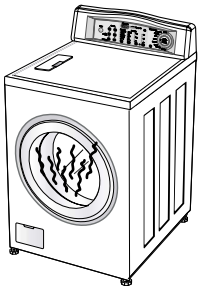


3 Press the Start/Pause button.



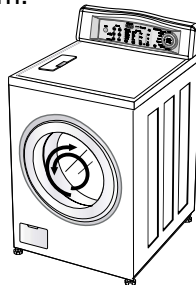
- Listen for clicking sounds to determine if the door has locked.

6 Check the water heating function.



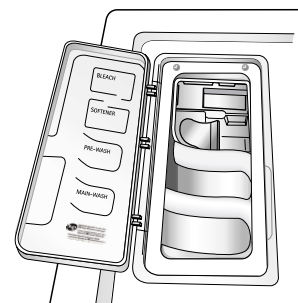
- Press the WASH / RINSE button and the present temperature will be displayed.

5 Check the automatic reversing rotation of the drum.



- Make sure that the drum rotates clockwise and counterclockwise.

4 Check the water supply.



- Verify that if water is supplied through the detergent dispenser.

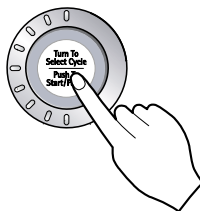
7 Check the drain and spin functions.

- Press the POWER button twice to restart.
- Press the SPIN SPEED button.
- Press the START / PAUSE button.
- Check the drain and spin functions.

Wash Rinse Spin

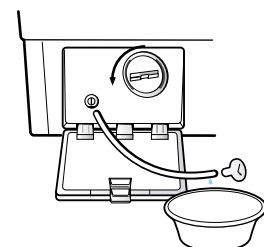


8 Press the START / PAUSE button.



- Listen for clicking sounds to determine if the door is unlocking.

9 Water removal.



- If SVC is required, remove the remaining water in the tub, by pulling out the drain plug.

5. OPERATION

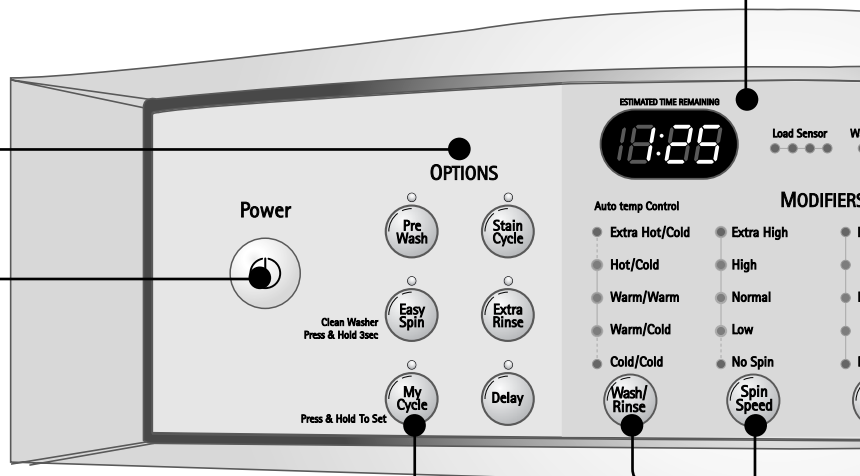
• POWER ON/OFF BUTTON

Press to turn the washer ON. Press again to turn the washer OFF.

NOTE: Pressing the ON/OFF button during a cycle will cancel that cycle and any load settings will be lost.

• TIME AND STATUS

The display shows the settings, estimated time remaining, options, and status messages for your washer.



• OPTION BUTTONS

The option buttons allow you to select additional cycle options and will light when selected. Certain buttons also allow you to activate special functions by pressing and holding the button for 3 seconds.

- Prewash: Use this option for loads that need pretreatment. It adds 16 minutes prewash and drain.
- Stain Cycle: Adds time to the wash and rinse cycles for better stain removal. Automatically provides a rinse.
- Easy Spin: Be used when there is a vibration problem, especially on wood floor installations.
- Extra Rinse: This option provides an additional rinse cycle.
- Delay Wash: Allows the start of any cycle to be delayed for 1~19(12, 9) hours.

• MY CYCLE BUTTON

Press the MY CYCLE button to save and recall a customized wash cycle for future use.

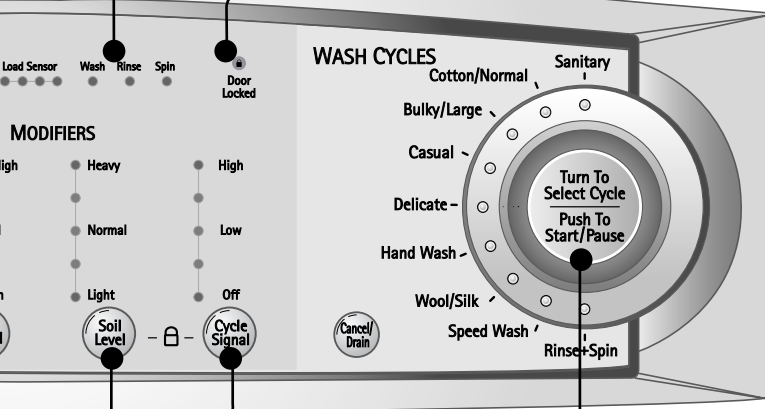
You can save the Cycle, Wash/Rinse Temperature, Spin Speed, and Soil Level settings, as well as other cycle options.

● STATUS INDICATOR

- These lights show elapsed time of the selected cycle.

● DOOR LOCKED lamp

- Lights whenever the door is locked.
- The door can be unlocked by pressing the Start / Pause button to stop the washer.



● CYCLE SELECTOR KNOB

Turn this knob to select the desired cycle. Once the desired cycle has been selected, the standard presets will be shown in the display. These settings can be adjusted using the cycle setting buttons anytime before starting the cycle.

Press this knob to START the selected cycle. If the washer is running, use this knob to PAUSE the cycle without losing the current settings.

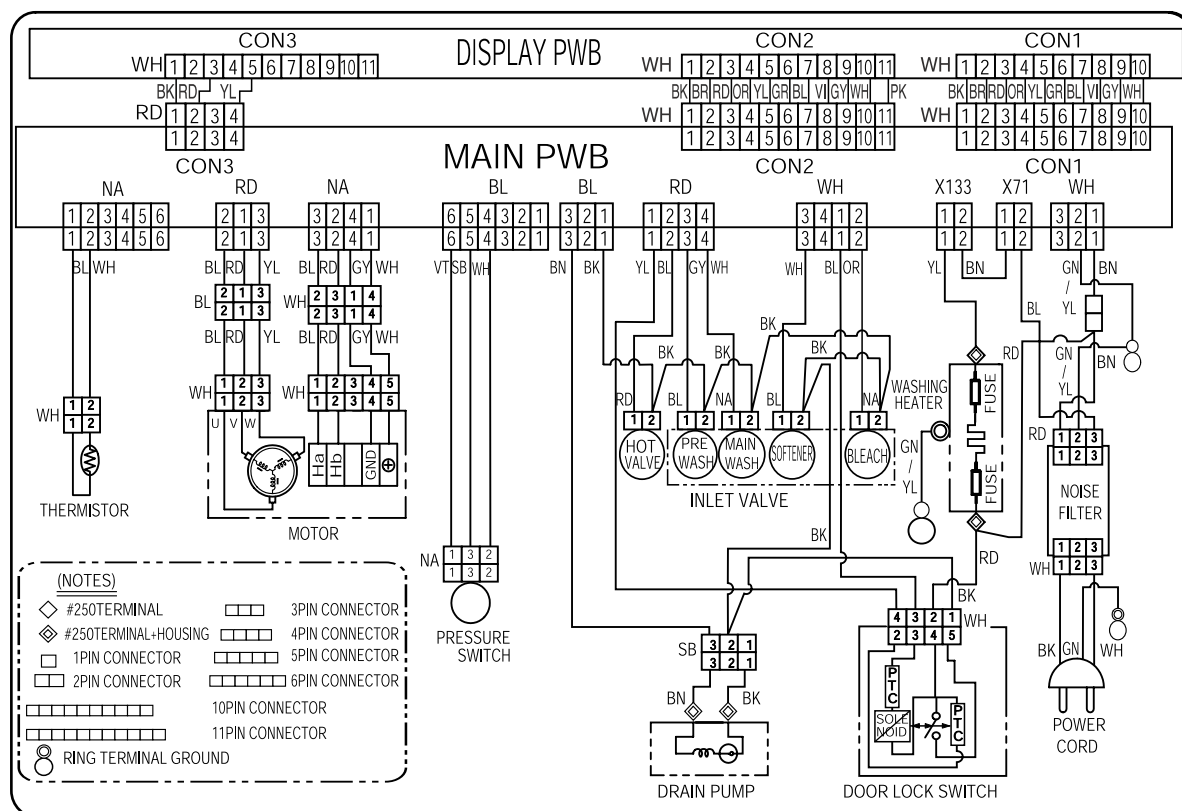
NOTE: If you do not press the cycle selector knob within 4 minutes of selecting a cycle, the washer automatically turns off.

● CYCLE SETTING BUTTONS

Use these buttons to adjust the desired cycle options for the selected cycle.

- Select a water temperature based on the type of load you are washing.
- To change the spin speed, select the Spin Speed button until the desired setting is displayed.
- To change the soil level, select the Soil Level button until the desired setting is displayed.

6. WIRING DIAGRAM / PROGRAM CHART



PROGRAM CHART

* Water Supply : W·S

* Intermittent Spin : I·S

* Disentangle : D·T

[illegible]

* Basic Cycle

*  Basic Cycle
 Optional Cycle

* Pre-Setting Time : Water Supply - 60 sec.
Drain - 60 sec.

* Basic time is minute in washing chart.

* The actual program time can be varied with the load amount, water temperature or ambient temperature.

7. TROUBLESHOOTING


7-1. BEFORE PERFORMING SERVICE

- Be careful of electric shock when disconnecting parts for while troubleshooting.
- The voltage of each terminal is 120V AC and DC when the unit is plugged in.

7-2. QC TEST MODE.

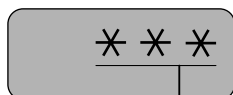
The washer must be empty and the controls must be in the off state.

- Press the SPIN SPEED and SOIL LEVEL buttons simultaneously.
- Press the Power button, while the above condition. Then buzzer sound twice.
- In order to advance to the next step of test mode, press the START / PAUSE button once.

Number of times the Start/Pause button is pressed	Check Point	Display Status
None	Turns on all lamps and locks the door.	 ¹⁾
1 time	Tumble clockwise.	rpm (40~50)
2 times	Low speed Spin.	600 rpm
3 times	High speed Spin.	1070 rpm
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 softener 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 (40~50)
10 times	Heater turns on for 3 sec.	Water temperature
11 times	Drain pump turns on.	Water level frequency (25~65)
12 times	Power off and unlock the door.	Turn off all lamps.

7-3. HOW TO CHECK THE WATER LEVEL FREQUENCY

- * Press the SPIN SPEED and SOIL LEVEL button simultaneously.







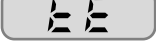






- The digits indicate the water level frequency (x.1 kHz).

So, for example a display indicating 241 : a Water level frequency of 241 x.1 kHz
= 24.1 kHz

7-4. ERROR DISPLAY

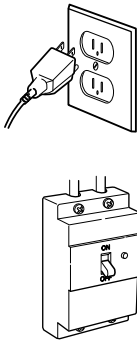


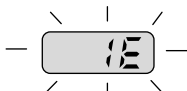
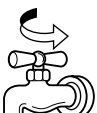


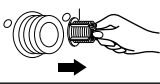
- If you press the START/PAUSE button when an error is displayed, any error except 『PE』 will disappear and the machine will go into the pause status.
- In case of 『PE』, 『UE』, 『OE』, 『FE』 if the error is not resolved within 20 sec., or the in case of other errors, if the error is not resolved within 4 min., power will be turned off automatically and the error code will blink. But in the case of 『FE』, power will not be turned off.







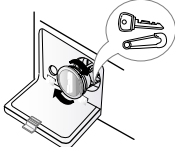

	ERROR	SYMPTOM	CAUSE
1	WATER INLET ERROR		<ul style="list-style-type: none"> • Correct water level (2 level) is not reached within 8 minutes after water is supplied or it does not reach the preset water level within 25 minutes.
2	IMBALANCE ERROR		<ul style="list-style-type: none"> • The load is too small. • The appliance is tilted. • Laundry is gathered to one side. • Non distributable things are put into the drum.
3	DRAIN ERROR		<ul style="list-style-type: none"> • Not fully drained within 10 minutes.
4	OVER FLOW ERROR		<ul style="list-style-type: none"> • Water is overflowing (over 8 level). ※ If 『FE』 is displayed, the drain pump will operate to the drain water automatically.
5	PRESSURE SENEOR ERROR		<ul style="list-style-type: none"> • The SENSOR SWITCH ASSEMBLY is out of order.
6	DOOR OPEN ERROR		<ul style="list-style-type: none"> • Door not all the way closed. • Loose electrical connections at Door switch and PWB Assembly. • The DOOR SWITCH ASSEMBLY is out of order.
7	HEATING ERROR		<ul style="list-style-type: none"> • The THERMISTOR is out order.

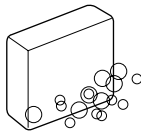
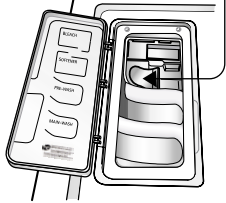
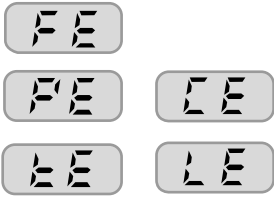
	ERROR	SYMPTOM	CAUSE
8	OVER CURRENT ERROR		<ul style="list-style-type: none"> MAIN PWB ASSEMBLY is out of order. Winding in the STATOR ASSEMBLY is short-circuited.
9	LOCKED MOTOR ERROR		<ul style="list-style-type: none"> The connector (3-pin, male, white) in the MOTOR HARNESS is not connected to the connector (3-pin, female, white) of STATOR ASSEMBLY. The electric contact between the connectors (3-pin, male, white) in the MOTOR HARNESS and 4-pin, female, white connector in the MAIN PWB ASSEMBLY is bad or unstable. The MOTOR HARNESS between the STATOR ASSEMBLY and MAIN PWB ASSEMBLY is cut (open circuited). The hall sensor is out of order/defective.
10	EEPROM ERROR		<ul style="list-style-type: none"> EEPROM is out of order. *Displayed only when the START / PAUSE button is first pressed in the QC Test Mode.
11	POWER FAILURE		<ul style="list-style-type: none"> The washer experienced a power failure.

8. ERROR DIAGNOSIS AND CHECK LIST

8-1.DIAGNOSIS AND SOLUTION FOR ABNORMAL OPERATION

SYMPTOM	GUIDE FOR SERVICE CALL
<p>No power</p>	<div data-bbox="544 539 1106 909"> <p>Is the power plug connected firmly to 120V AC outlet?</p> <p>YES</p> <p>Power failure? or Breaker opened? Is the outlet controlled by a switch?</p> <p>NO</p> <p>Visit to service.</p> </div> <div data-bbox="1190 546 1326 887">  </div>
<p>Water inlet trouble</p> <div data-bbox="240 1111 405 1173">  </div>	<div data-bbox="544 1010 1106 1827"> <p>Is  displayed?</p> <p>YES</p> <p>Is the tap opened?</p> <p>YES</p> <p>Is the tap frozen?</p> <p>NO</p> <p>Is the water supply shut-off?</p> <p>NO</p> <p>Is filter in the inlet valve clogged with foreign material?</p> <p>YES</p> <p>NO</p> <p>Visit to service.</p> </div> <div data-bbox="1166 1021 1410 1720">     <div data-bbox="1182 1514 1410 1720"> <p>Clean the filter of inlet valve</p>  </div> </div>

SYMPTOM	GUIDE FOR SERVICE CALL
<p>Door error</p> 	<div data-bbox="549 450 1399 1379"> <p>Started with door opened? YES </p> <p>NO</p> <p>Was the load too large? YES Avoid overloading.</p> <p>NO</p> <p>Clicking sound is heard once or twice, when the START / PAUSE button is pressed to start the cycle?</p> <p>NO</p> <p>Visit to service.</p> <p>Check if the door switch is OK.</p> <p>Close the door. </p> </div>
<p>Drain trouble</p> 	<div data-bbox="549 1435 1453 1962"> <p>Is  displayed? YES </p> <p>NO</p> <p>Is the drain pump filter clogged with foreign material such as pins, coins, etc? YES Clean up the filter. </p> <p>NO</p> <p>Is the drain hose frozen, kinked, or crushed? NO </p> <p>Visit to service.</p> </div>

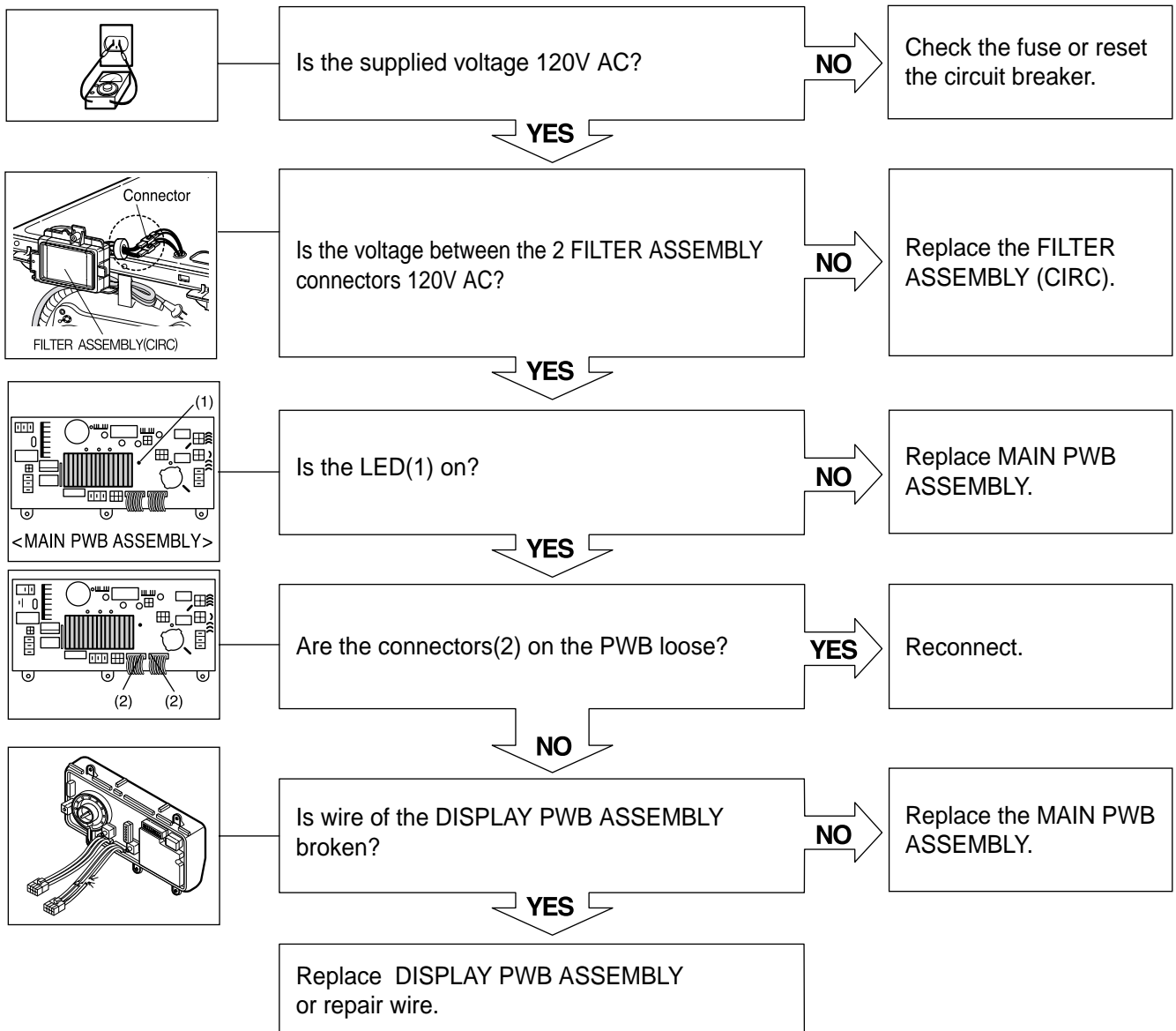
SYMPTOM	GUIDE FOR SERVICE CALL
<p>Suds overflow from the appliance. (In this condition, wash and spin do not operate normally)</p>	<div data-bbox="564 385 1126 483">Is a low-sudsing detergent used?</div> <div data-bbox="775 483 916 533">YES</div> <div data-bbox="564 539 1126 638">Is the proper amount of detergent used as recommended?</div> <div data-bbox="775 638 916 687">YES</div> <div data-bbox="564 687 1126 786">Recommend to reduce the amount of detergent.</div> <div data-bbox="616 819 1362 994"> <p>* This appliance has an automatic suds sensing function which prevents overflow.</p> <p>* When excessive suds are sensed, the suds removing implementations such as drain, water input, pause will operate, without rotating the drum.</p> </div> <div data-bbox="1198 398 1390 566">  <p>LOW-SUDSING</p> </div>
<p>No softening effect</p>	<div data-bbox="564 1066 1126 1164">Is softener put in the correct compartment of the dispenser?</div> <div data-bbox="775 1164 916 1339">YES</div> <div data-bbox="564 1339 1126 1415">Is the softener cap clogged?</div> <div data-bbox="775 1415 916 1464">YES</div> <div data-bbox="564 1464 1126 1529">Explain proper use of softener.</div> <div data-bbox="600 1541 986 1574">Clean the softener compartment</div> <div data-bbox="1139 1133 1390 1429"> <p>Compartment for softener</p>  </div>
	<div data-bbox="564 1682 1126 1747">Visit to service.</div>

8-2.FAULT DIAGNOSIS AND TROUBLESHOOTING

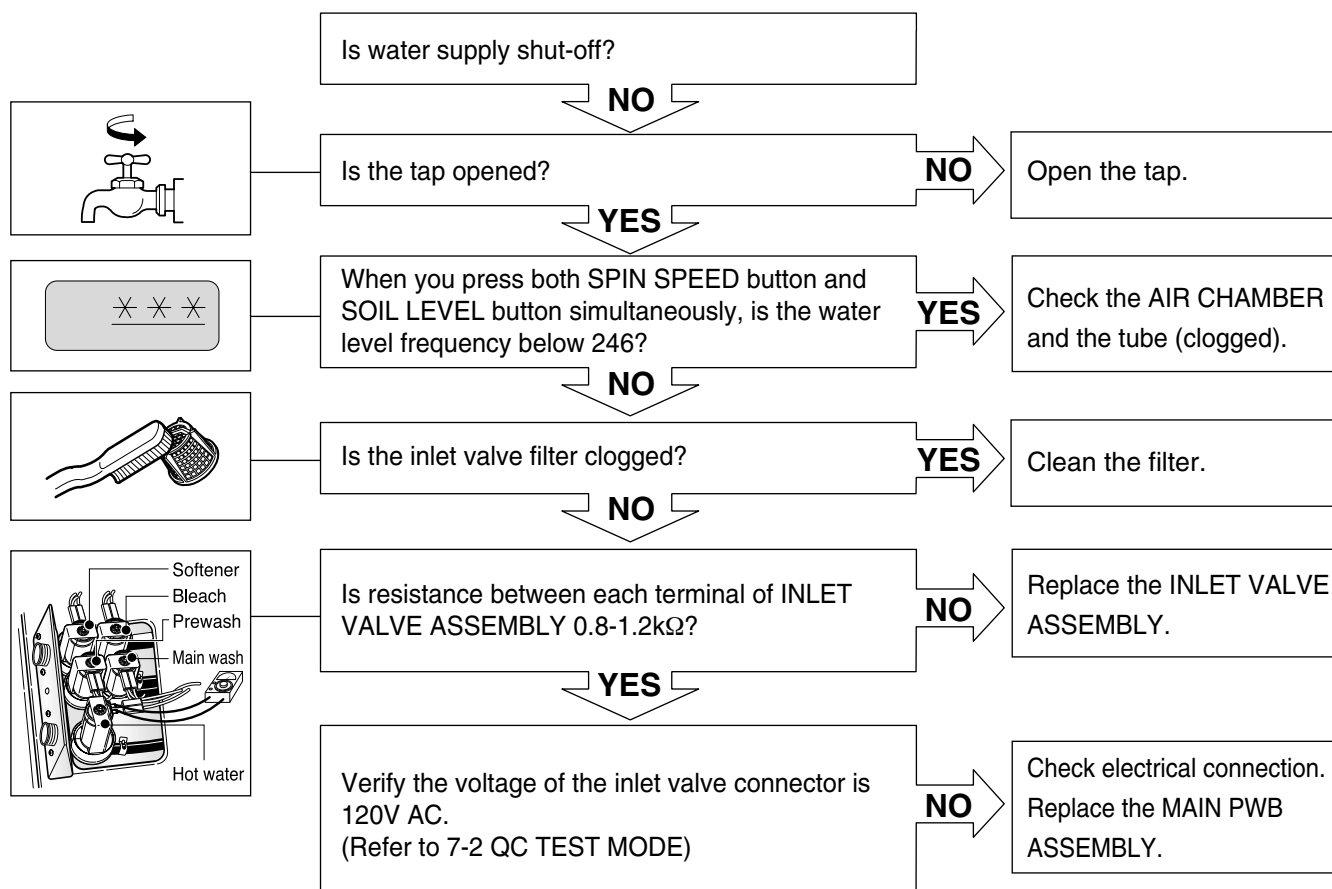
⚠ CAUTION

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

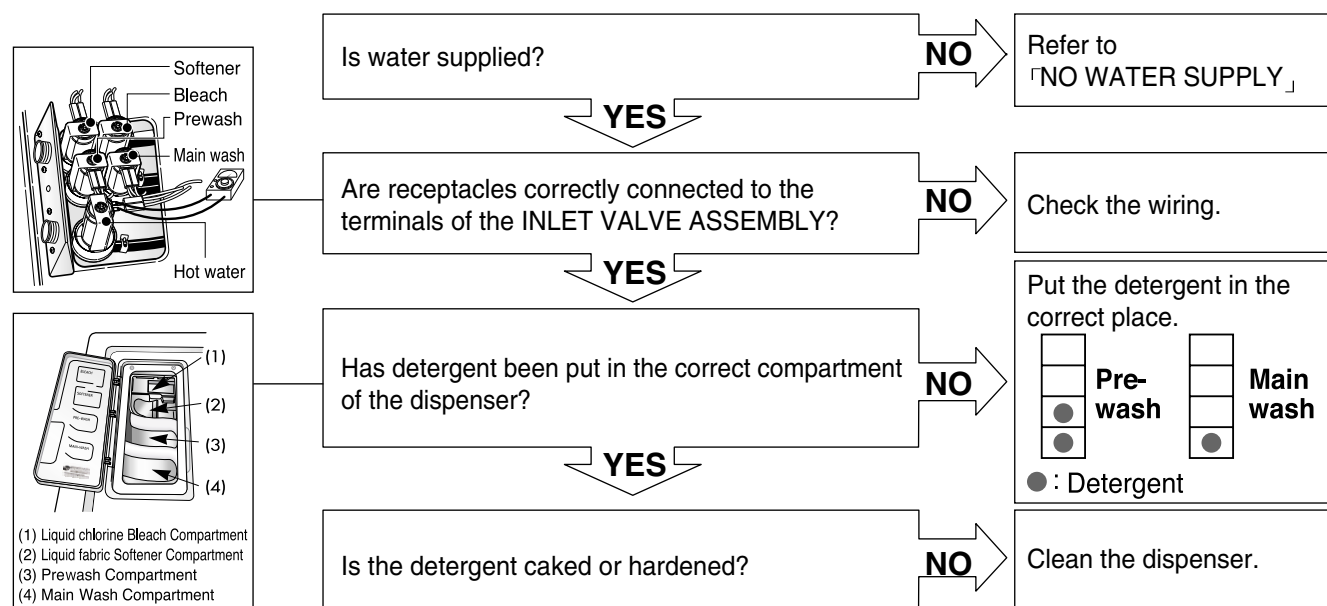
NO POWER



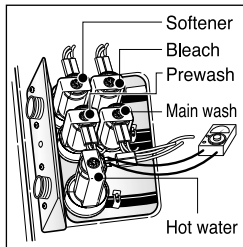
NO WATER SUPPLY



DETERGENT DOES NOT FLOW IN



SOFTENER / BLEACH DOES NOT FLOW IN



Is water supplied?

NO

Refer to
「NO WATER SUPPLY」

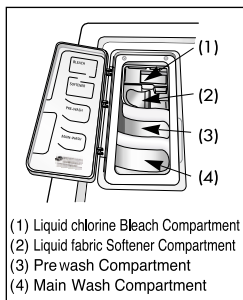
YES

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

NO

Check the wiring on the
dispenser.

YES

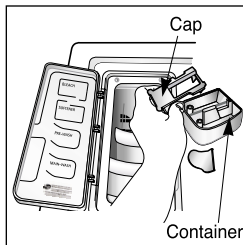


Is softener / bleach put in the correct compartment of
the drawer?

NO

Put it in the correct
compartment.

YES

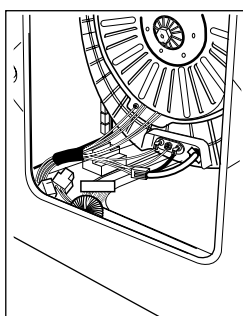


Is the softener / bleach cap clogged?

YES

Clean the Cap and
Container.

ABNORMAL SOUND



Is the motor bolt loosened?

YES

Secure the bolt.

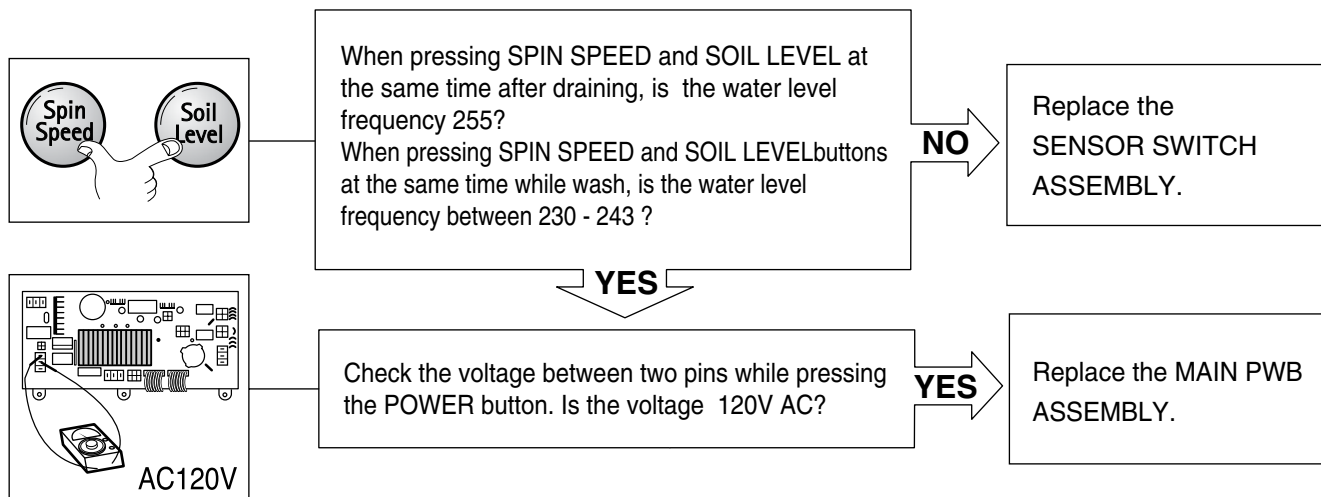
NO

Is there friction noise coming from the motor?

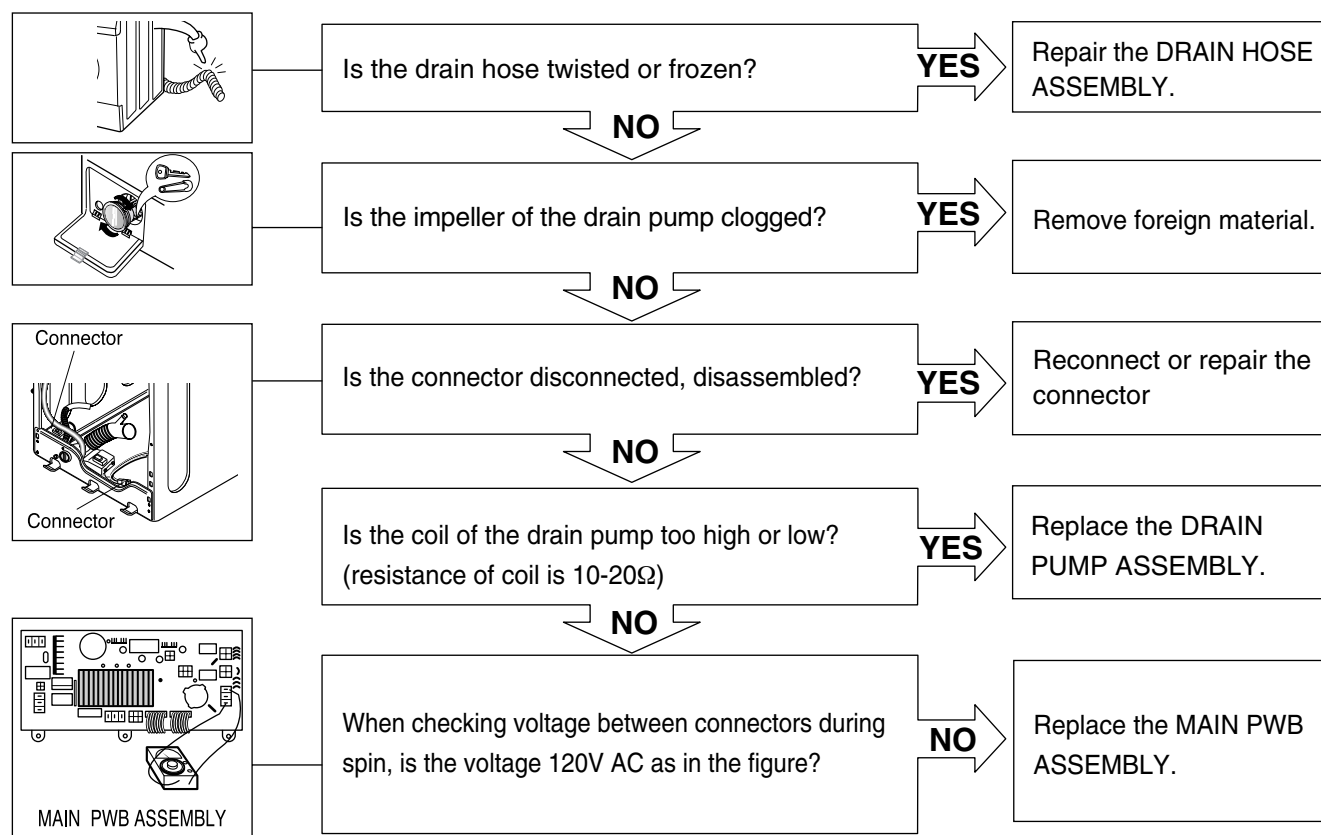
YES

Replace the STATOR
ASSEMBLY or ROTOR
ASSEMBLY.

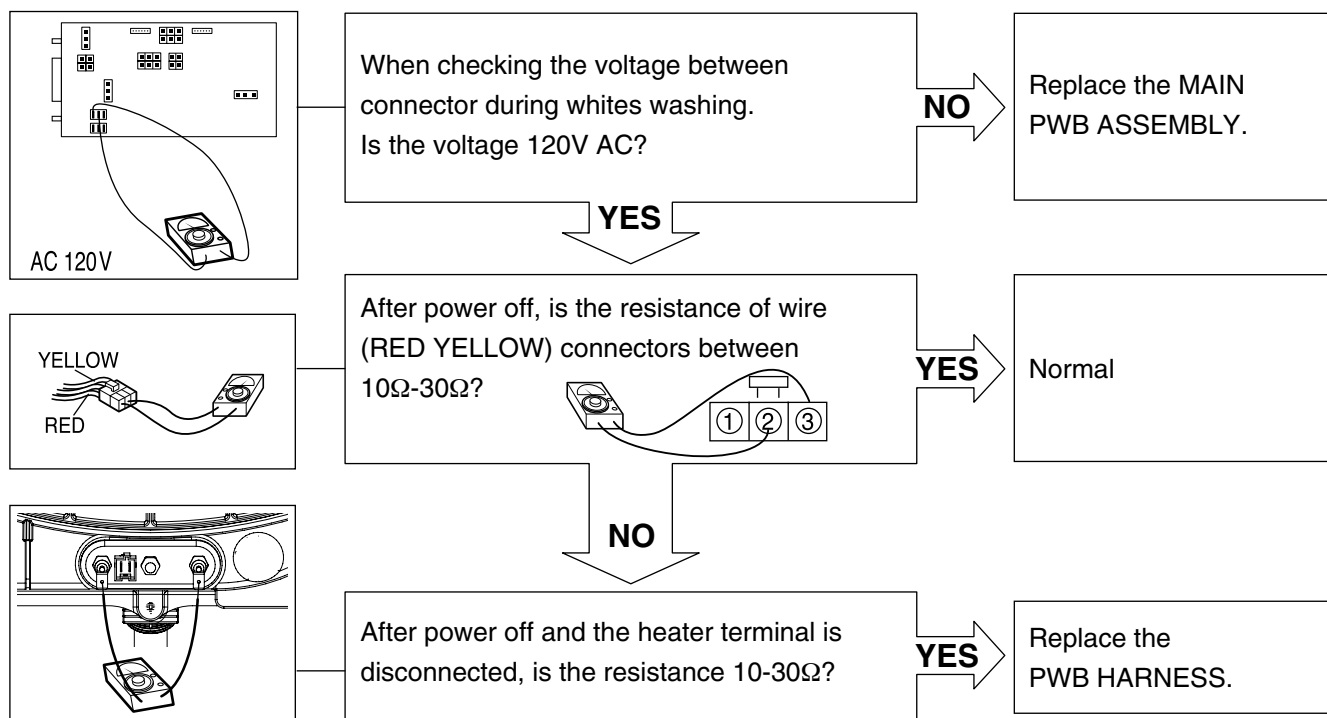
HEATING WITHOUT WATER



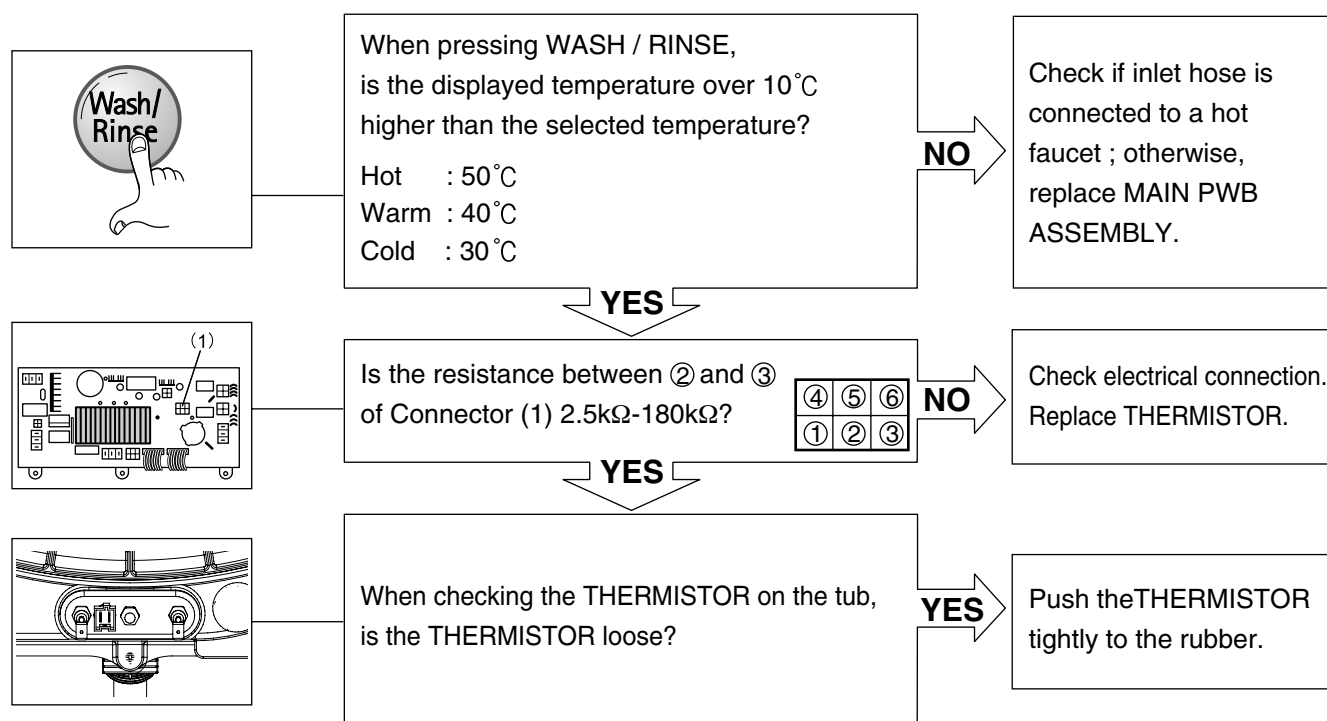
DRAIN MALFUNCTIONING



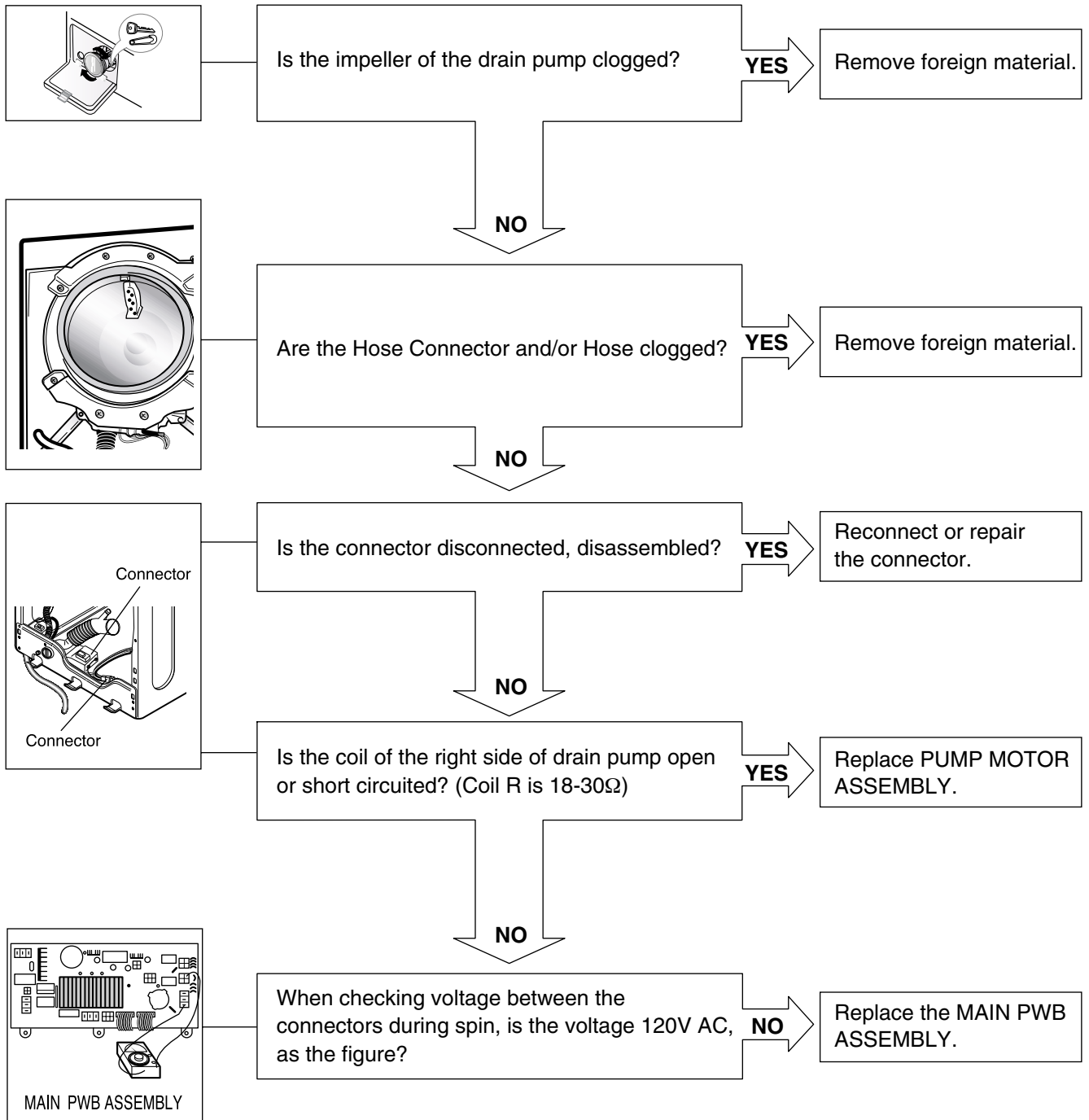
WASH HEATER TROUBLE



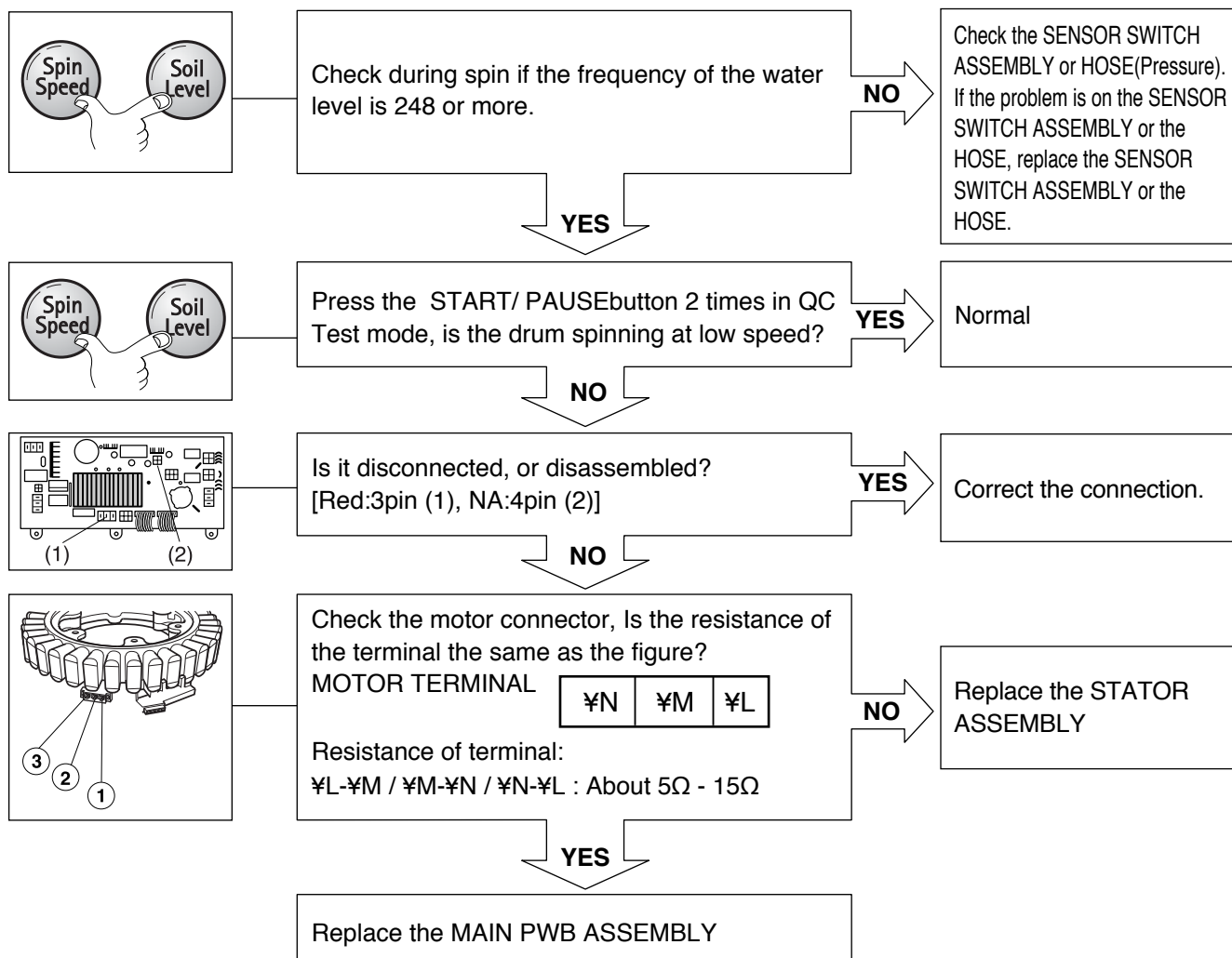
HEATING CONTINUOUSLY ABOVE THE SETTING WATER TEMPERATURE



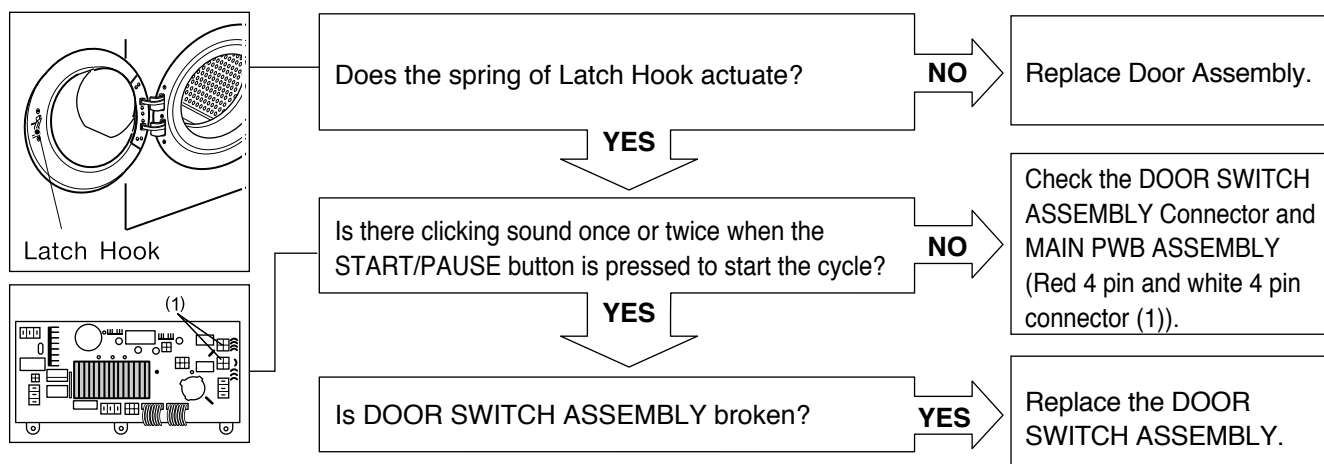
WILL NOT CIRCULATE WATER



SPIN TROUBLE



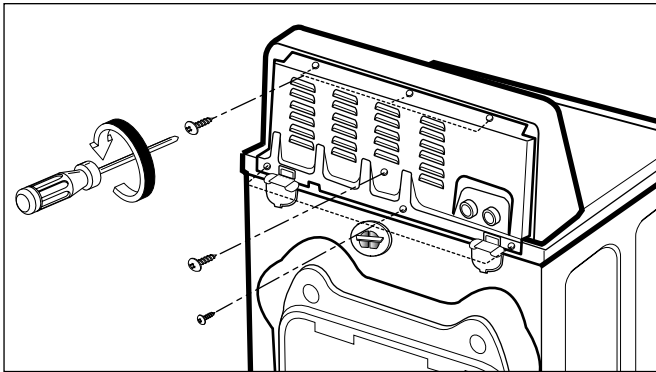
ERROR



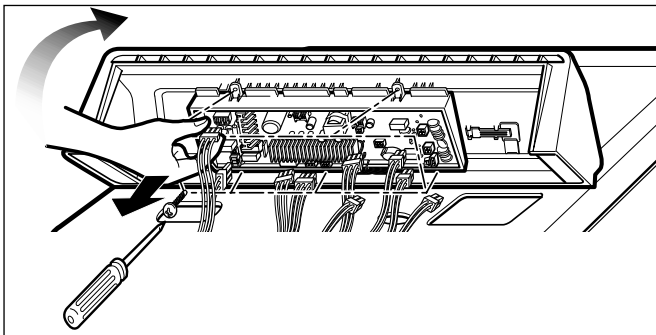
9. DISASSEMBLY INSTRUCTIONS

fR Disassemble and repair the unit only after pulling out power plug from the outlet.

CONTROL PANEL ASSEMBLY

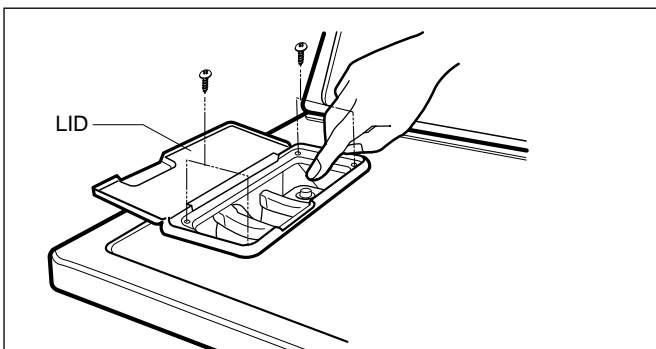


1. Unscrew 7 screws on the Rear Frame.
2. Disassemble the Rear Frame.

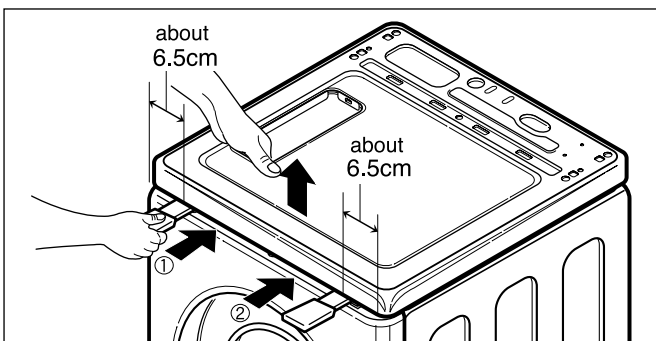


3. Pull the Control panel forward.
4. Disconnect connectors.
5. Unscrew 5 screws.
6. Disassemble the controller assembly.

TOP PLATE



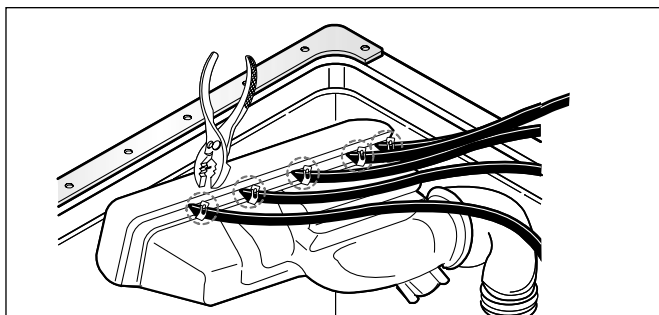
1. Open the Lid.
2. Unscrew 4 screws.
3. Disassemble the Lid Assembly.
4. Pull down the Dispenser by pushing hooks.



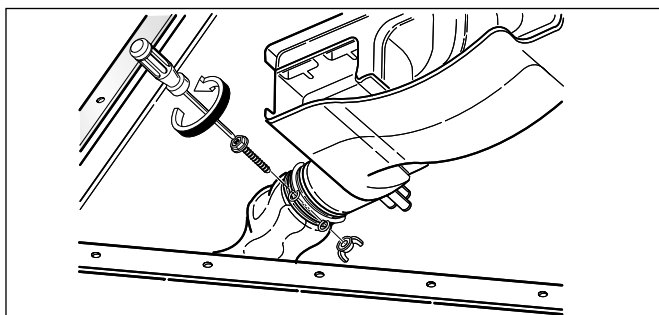
5. Put a hand into the dispenser hole and hold the top plate.
6. Push backward using an opener and lift the top plate.

ⓘ Do first left side (¥I).

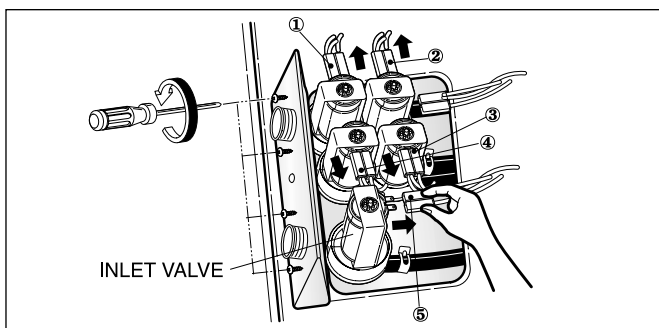
DISPENSER ASSEMBLY



1. Disassemble the 5 hose clamps.
2. Release the 5 hoses.



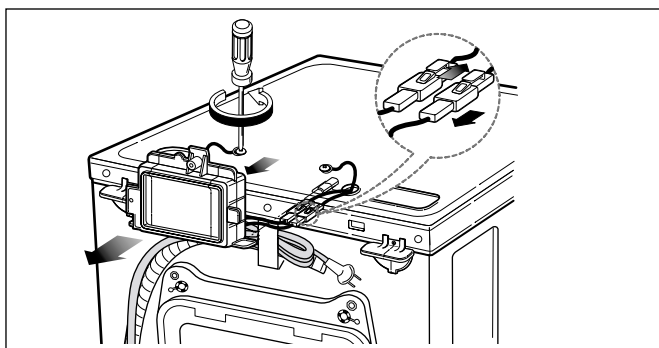
3. Unscrew the nut at the lower part of the dispenser.



4. Unscrew the 4 screws on the holder.
5. Disassemble the 5 connectors from the valves.

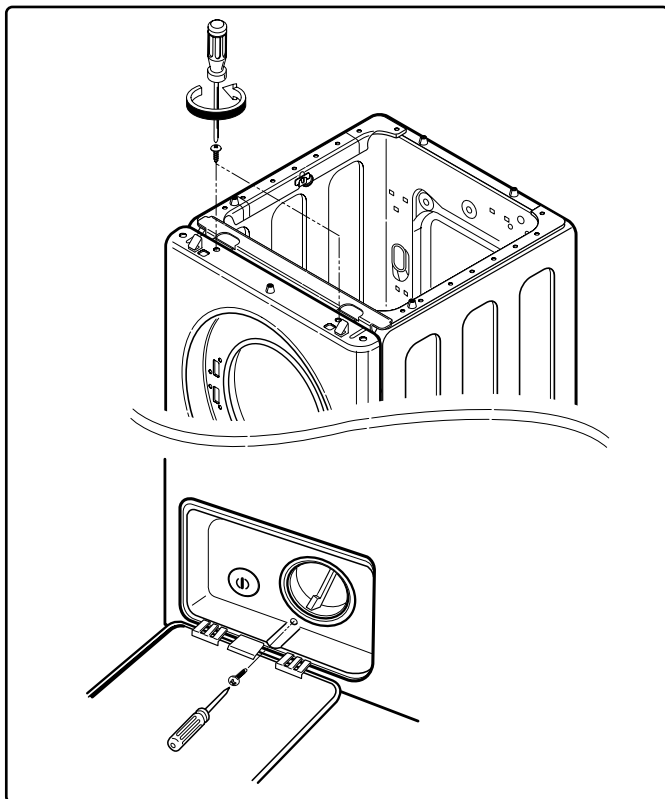
Wire color : ¥L WH-BK ¥M OR-BK
¥N WH-BK ¥O GY-BK
¥P BL-BK

NOISE FILTER

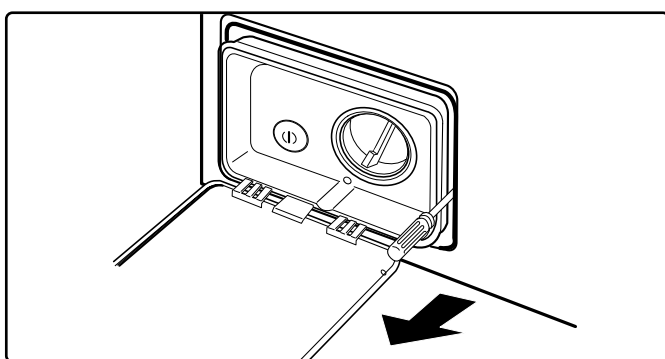


1. Unscrew the screw from the top plate.
2. Unplug the 2 connectors.

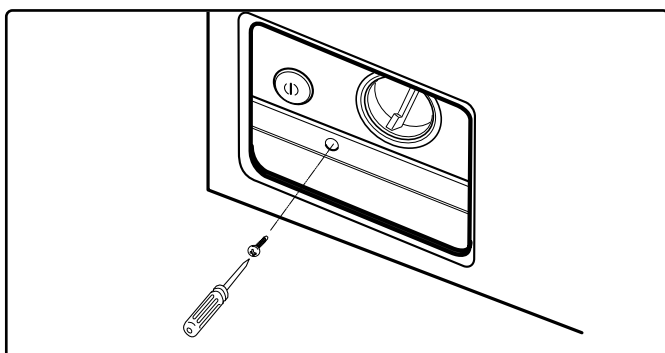
CABINET COVER



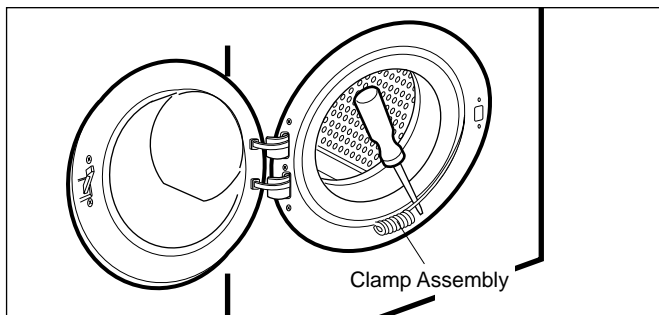
1. Unscrew the 2 screws from upper side of the cabinet cover.
2. Unscrew the screw from filter cover.



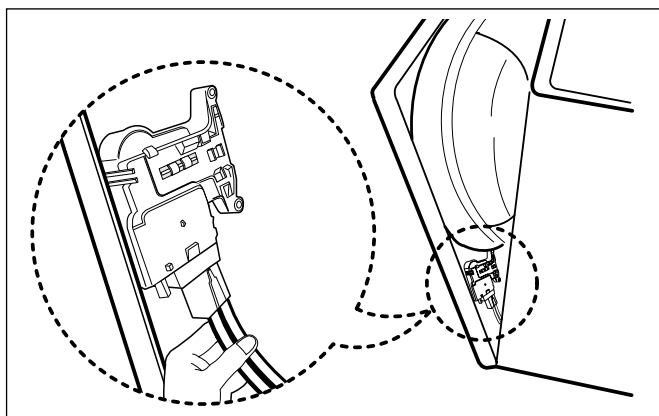
3. Put a flat (–) screwdriver into the both sides of the filter cover, and pull it out.



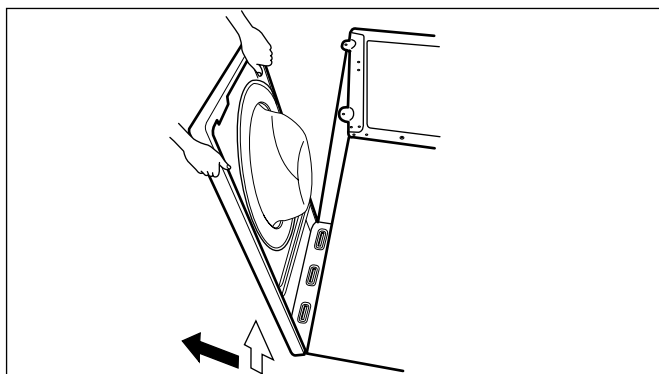
4. Unscrew the 1 screws from the lower side of the cabinet cover.



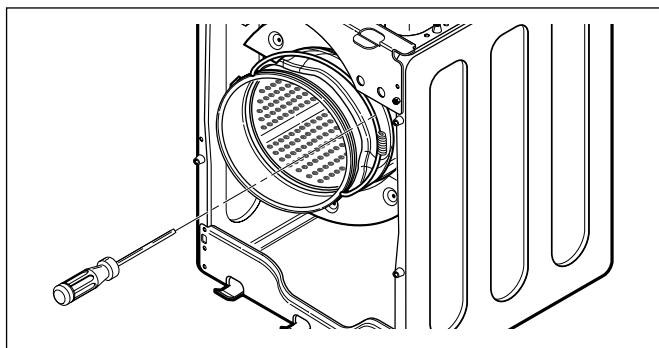
5. Open the door.
6. Disassemble the clamp assembly using a flat (–) screwdriver.
7. Separate the clamp assembly from cabinet cover.



8. Tilt the cabinet cover.
9. Disconnect the door switch connector.

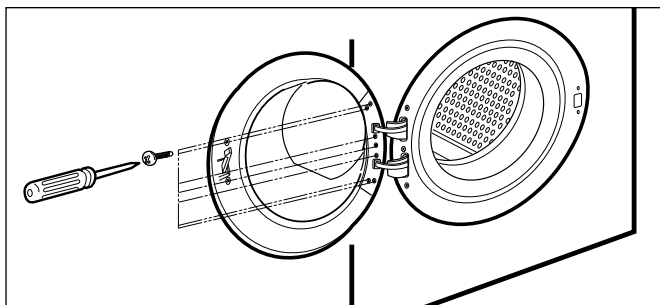


10. Lift and separate the cabinet cover.

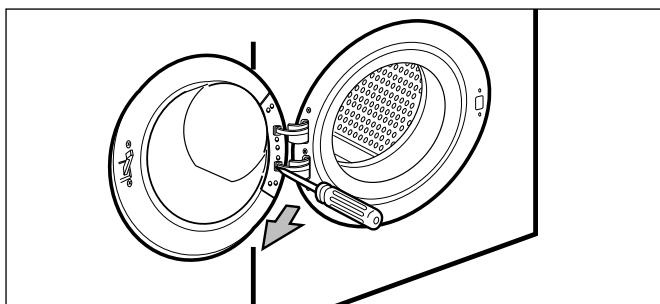


11. Disassemble the clamp assembly using a flat (–) screwdriver.
12. Disassemble the Gasket.

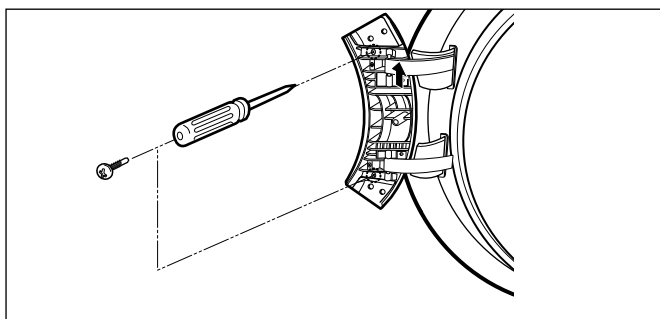
DOOR



1. Open the door.
2. Unscrew the 7 screws from the hinge cover.



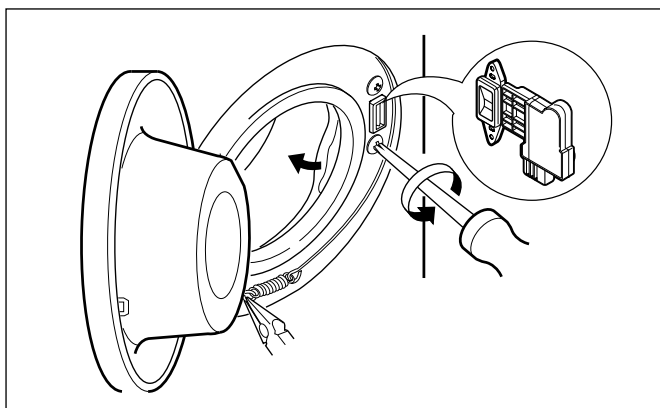
3. Put a flat (–) screwdriver into the opening of the hinge, and pull out the hinge cover.



4. Unscrew the screws from the door.
5. Disassemble the door upward / downward.

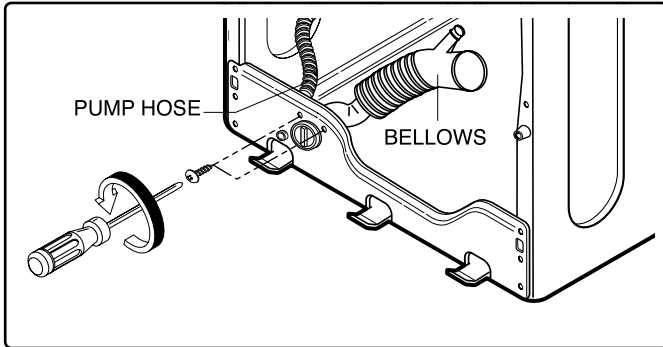
ⓘ Be careful ! The door is heavy.

DOOR SWITCH ASSEMBLY



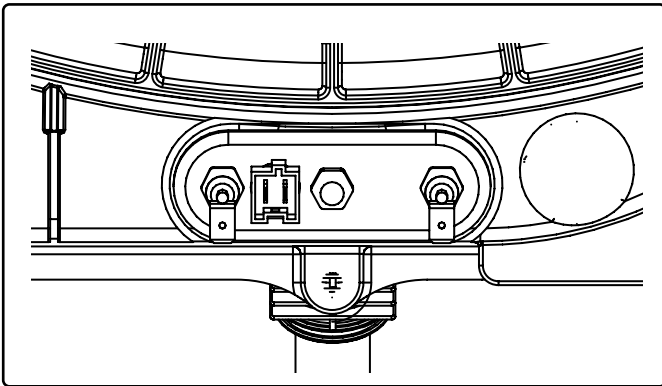
1. Open the door.
2. Disassemble the clamp assembly.
3. Unscrew the 2 screws from cabinet cover.

PUMP



1. Disassemble the cabinet cover.
2. Separate the pump hose and the bellows from the pump assembly.
3. Disassemble the pump assembly in arrow direction.

HEATER&THERMISTOR

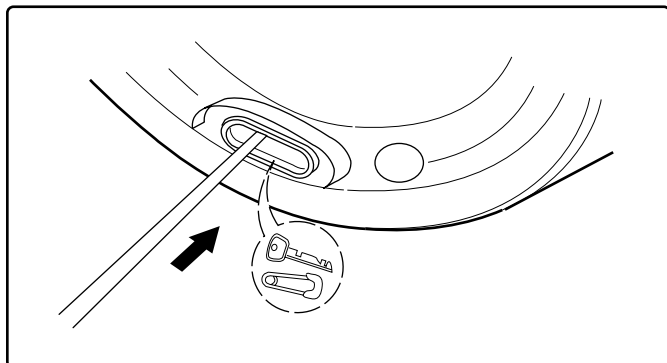


1. Disassemble the back cover.
2. Separate 2 connectors from the heater.
3. Loosen the nut and pull out the heater.

⚠ CAUTION

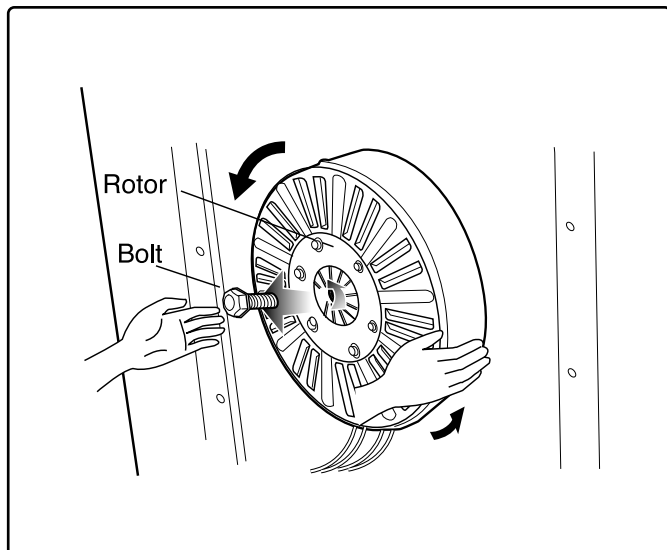
- When assembling the heater, insert the heater into heater clip on the bottom of the tub.
- Tighten the fastening nut so the heater is secure.

WHEN FOREIGN OBJECT IS STUCK BETWEEN DRUM AND TUB

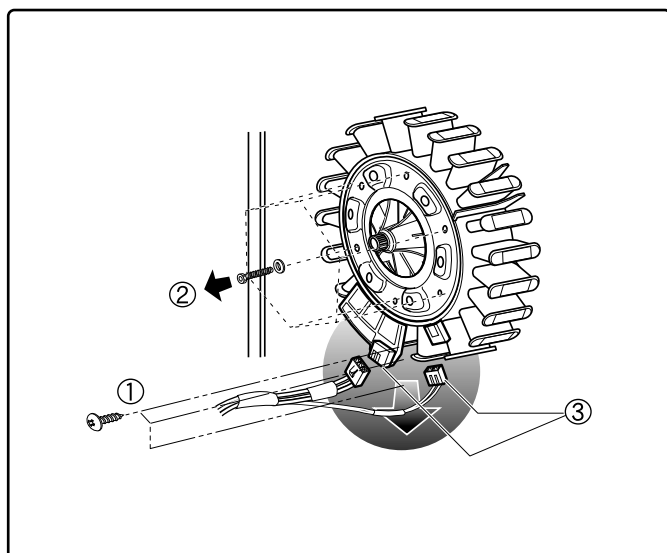


1. Disassemble the back cover.
2. Separate the heater from the tub.
3. Remove any foreign objects (wire, coin, etc.) by inserting a long bar in the opening.

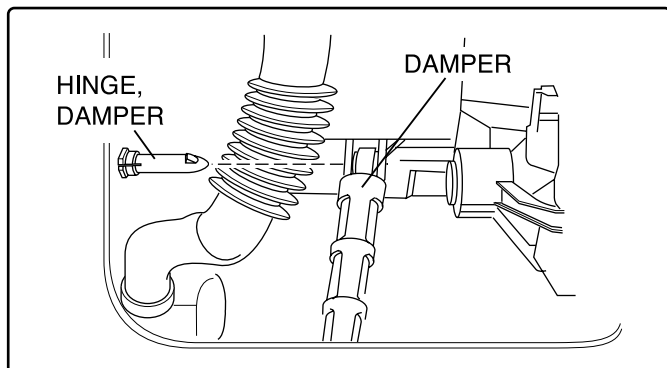
MOTOR / DAMPER



1. Disassemble the back cover.
2. Loosen the bolt.
3. Pull out the Rotor.



4. Unscrew the 2 screws from the tub bracket.
5. Loosen the 6 bolts on the stator.
6. Unplug the 2 connectors from the stator.



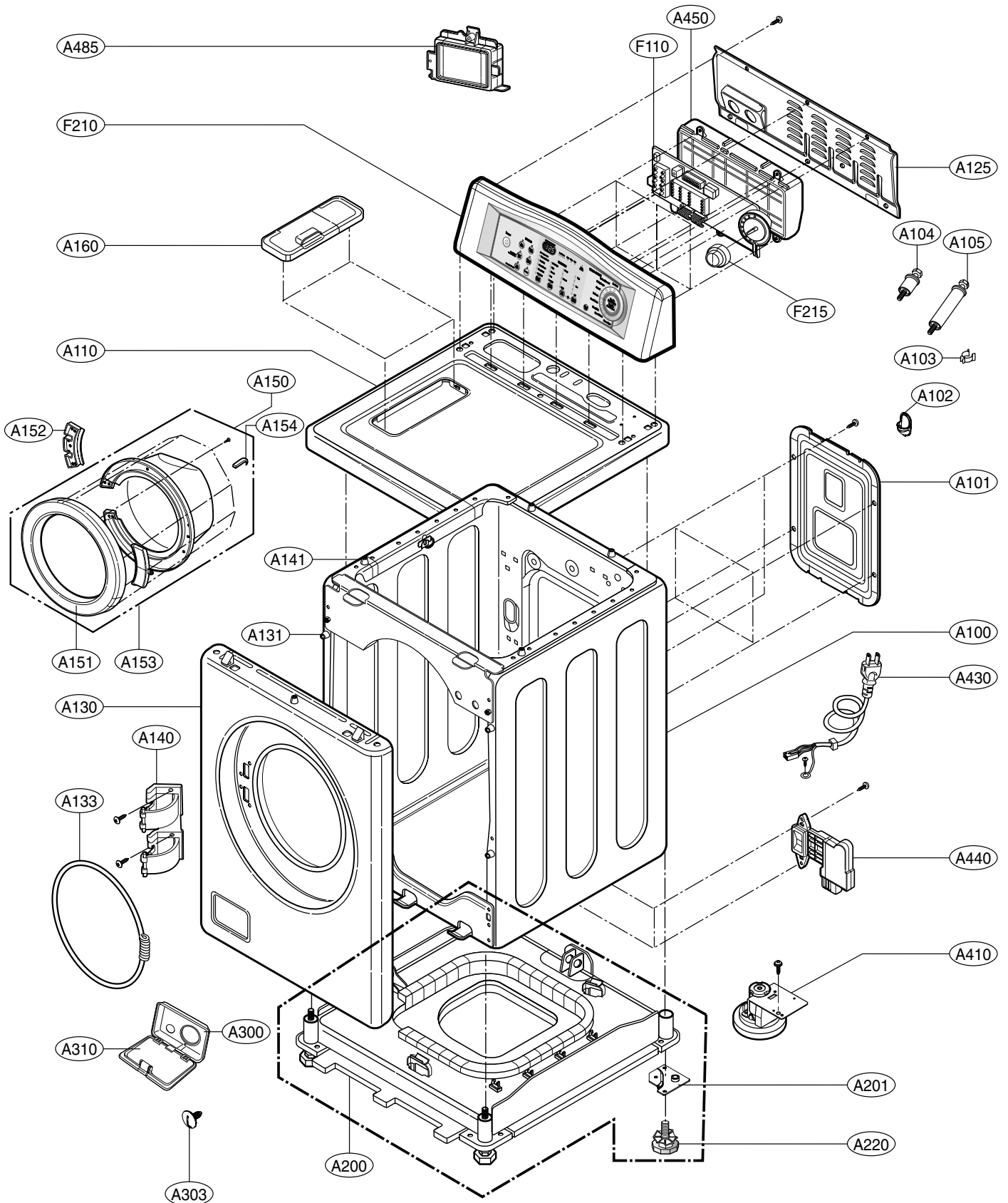
1. Disassemble the damper hinges from the tub and base.
2. Separate the dampers.

※ NOTE

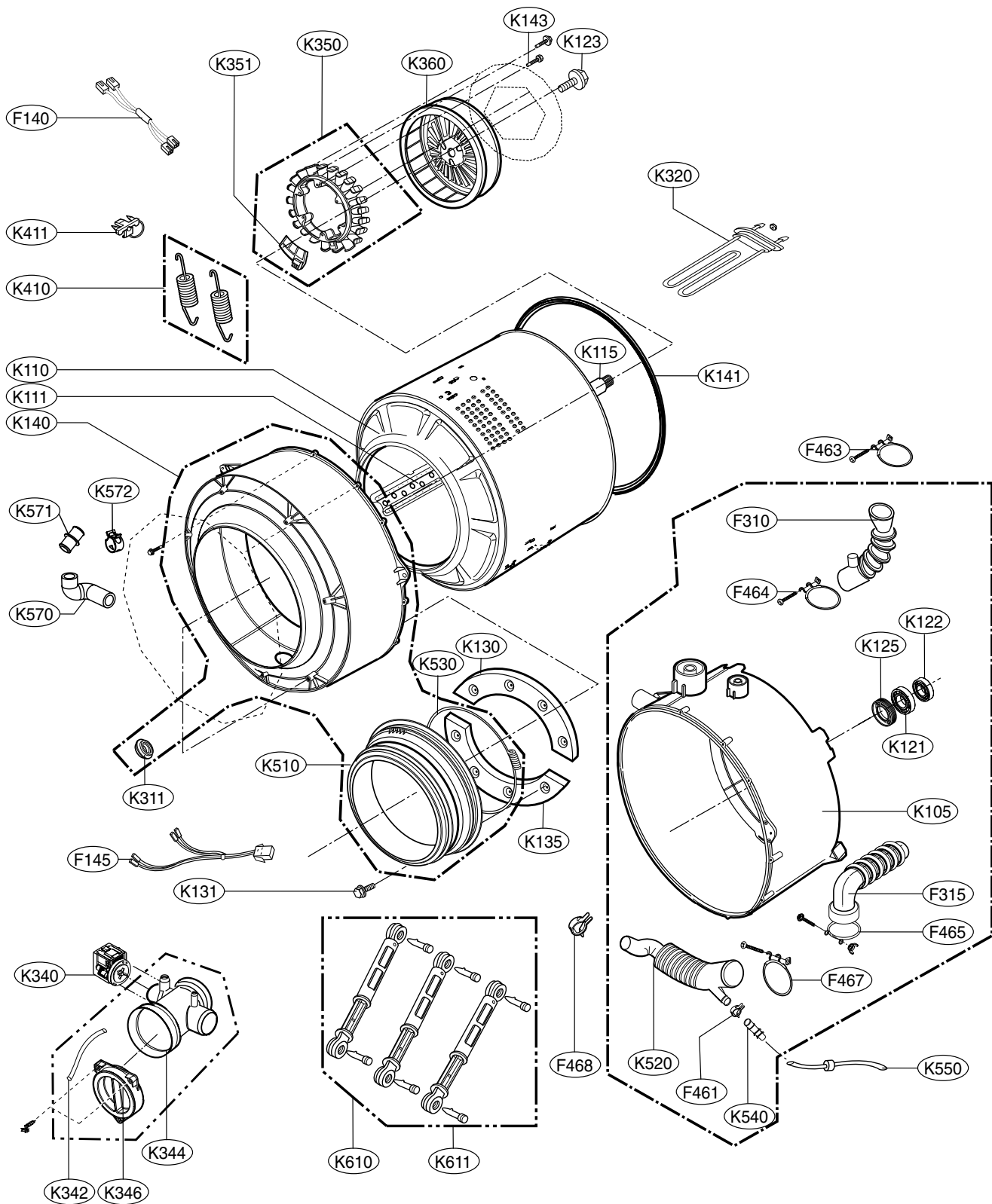
- Once removed, replace the damper pin with new one.

10. EXPLODED VIEW

10-1. CABINET & CONTROL PANEL ASSEMBLY



10-2. DRUM & TUB ASSEMBLY



10-3. DISPENSER ASSEMBLY

