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WASHING MACHINE SERVICE MANUAL

▲ CAUTION

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

MODEL: WM3677HW / WD-12270RD

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1. SPECIFICATIONS

ITEM		WM3677HW	WD-12270RD
COLOR		BLUE WHITE	
POWER SUPPLY		AC 120 V, 60 Hz	AC 127V, 60Hz
PRODUCT WEIGHT		201 lbs. (91 kg)	
ELECTRIC POWER CONSUMPTION	WASHING	280 W	
	DRAIN MOTOR	80 W	
	FAN MOTOR	25 W	
	DRY HEATER	1200 W	
	WASH HEATER	1000 W	
REVOLUTION SPEED	WASH	42 rpm	
	SPIN	0-1100 rpm	
CYCLES		7	
WASH/RINSE TEMPERATURES		5	
SPIN SPEEDS		5	
OPTIONS		Prewash, Stain Cycle, Quick Cycle, Extra Rinse, Rinse+Spin	
WASH/DRY PROGRAM		Sanitary, Cotton/Towels, Normal, Perm Press, Speed Wash	
CUSTOM PROGRAM		Incorporated	
WATER CIRCULATION		Incorporated	
OPERATIONAL WATER PRESSURE		4.5–145 psi (30-1000 kPa)	
CONTROL TYPE		Electronic	
WASH CAPACITY		3.22 cu. ft (3.72 cu. ft. IEC)	12 kg
DRY CAPACITY		Max. 11 lbs (5 kg)	8 kg
DIMENSIONS		27" (W) X 29 ³ / ₄ " (D) X 38 ¹¹ / ₁₆ " (H), 50 ¹³ / ₁₆ " (D, door open)	686mm(W)x767mm(D)x982mm(H), 1291mm(D) (D, door open)
DELAY WASH		up to 12 hours	
DOOR SWITCH TYPE		PTC + Solenoid	
WATER LEVEL		10 steps (by sensor)	
LAUNDRY LOAD SENSING		Incorporated	
ERROR DIAGNOSIS		Incorporated	
AUTO POWER OFF		Incorporated	
CHILD LOCK		Incorporated	

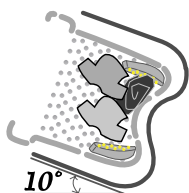
2. FEATURES & TECHNICAL EXPLANATION

2-1. FEATURES



■ Direct Drive System

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



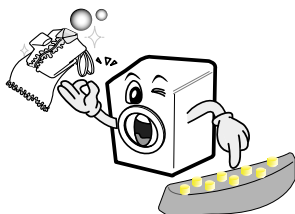
■ Tilted Drum and Extra Large Door Opening

The tilted drum and extra large door opening make it possible to load and unload easily.



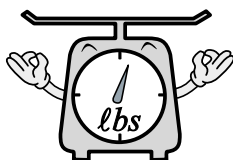
■ Water Circulation

Spray detergent solution and water onto the load repeatedly. Clothes are soaked more quickly and thoroughly during the wash cycle. Detergent suds are eliminated more easily by the water shower during rinse cycle. The water circulation system uses both water and detergent more efficiently.



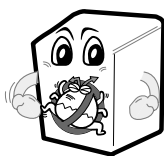
■ RollerJets

The washing ball enhances wash performance and reduces damage to clothing. The jets spray and help tumble clothes to enhance washing performance while maintaining fabric care.



■ 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.

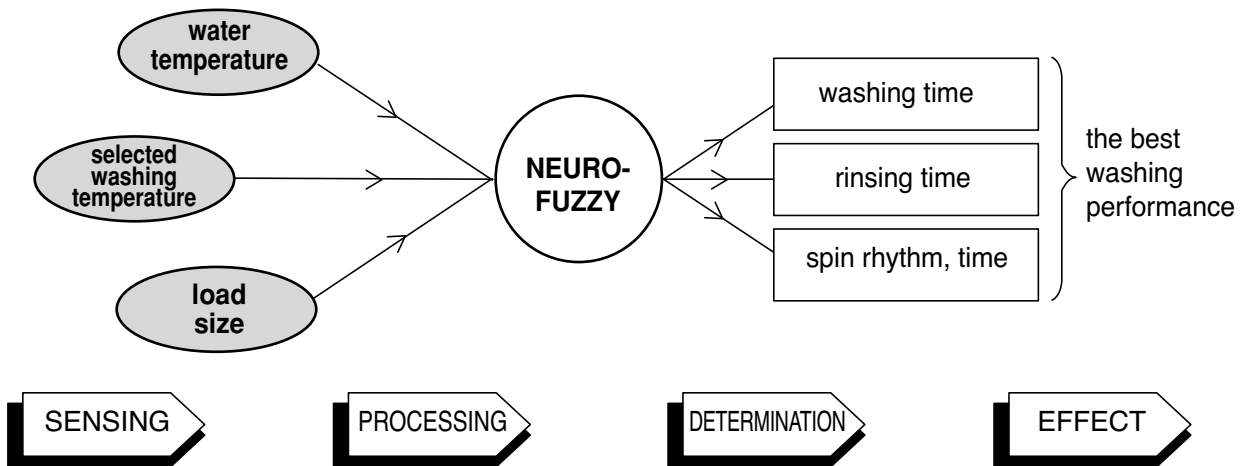


■ Child Lock

The Child lock feature prevents children from pressing any buttons 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)

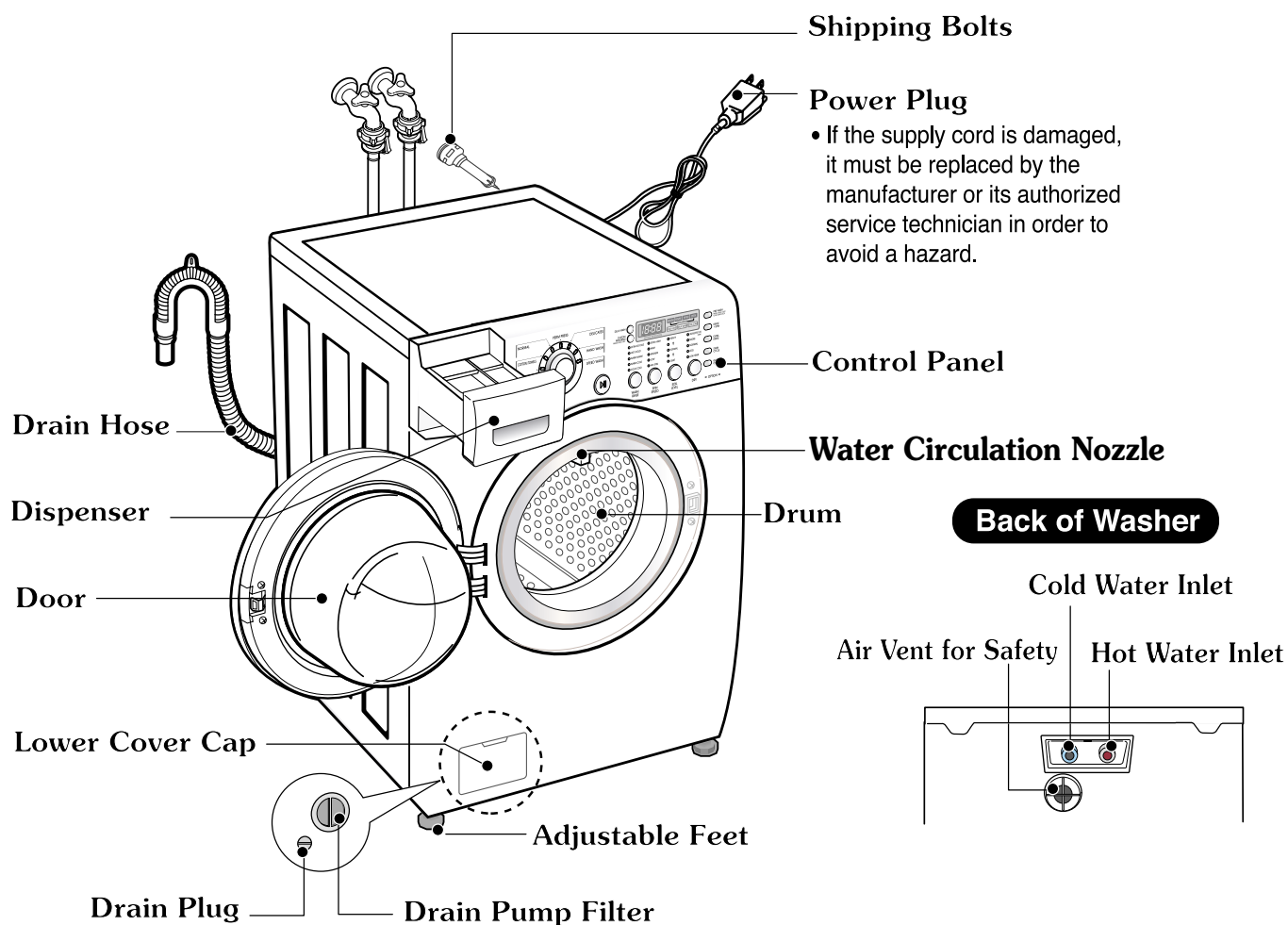
2-7. CHILD LOCK

- Use this option to prevent unwanted use of the washer. Press and hold PRE WASH 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.

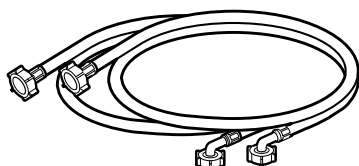
2-8. WATER CIRCULATION

- When Washing and Rinsing function of shower at the upper part of Gasket.
- When Washing, it continuously operates for 3 minutes and intermittently.
- When Rinsing, it continuously operates after completion of water supply.

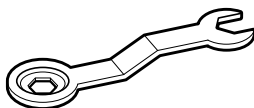
3. PARTS IDENTIFICATION



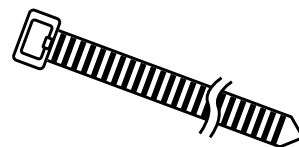
■ ACCESSORIES



Hot/Cold (1 each)
Hose



Wrench



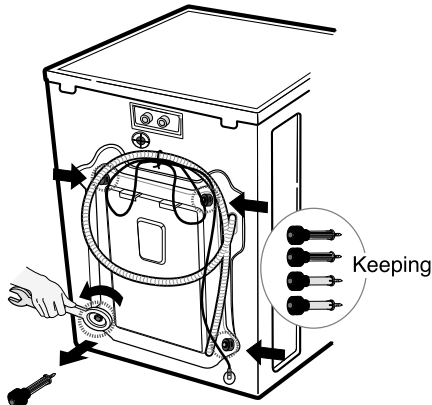
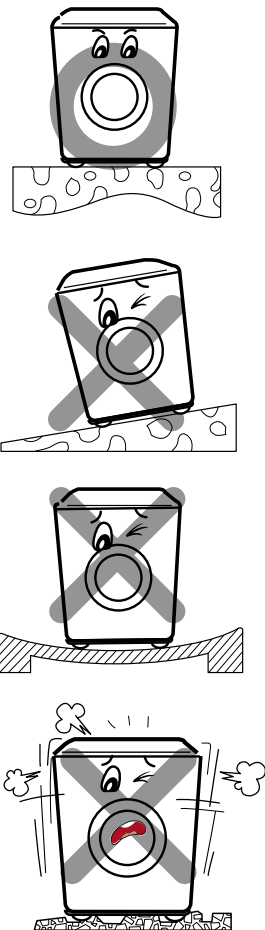
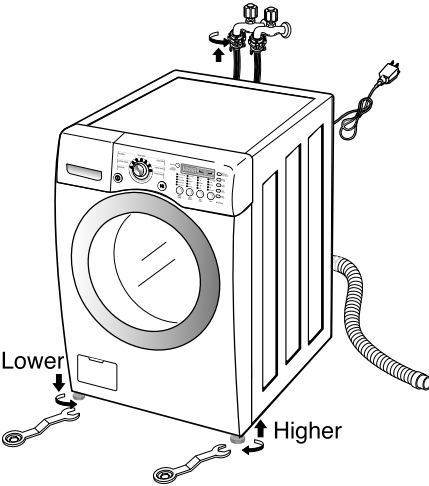
Tie strap (Option)
to secure drain hose to standpipe,
inlet hose, or laundry tub

4. INSTALLATION & TEST

- ① Before servicing, ask the customer what the trouble is.
- ② Check the setup (power supply is 120 V AC, remove the transit bolts....).
- 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.

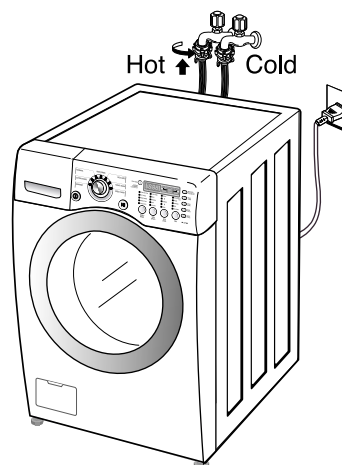
■ STANDARD INSTALLATION

The appliance should be installed as follows:

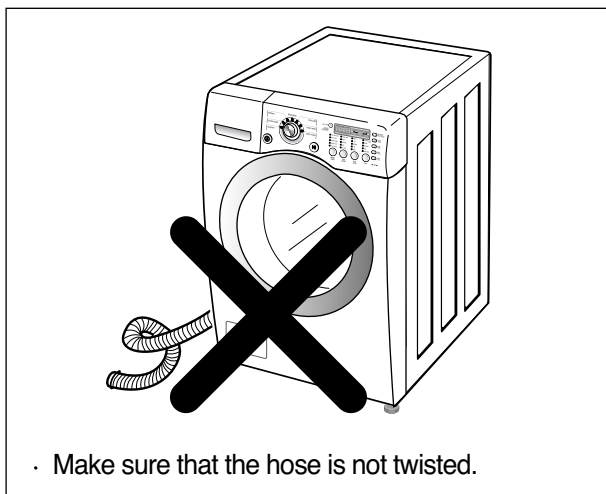
REMOVE THE SHIPPING BOLTS	INSTALL THE APPLIANCE ON A FLAT AND FIRM SURFACE	ADJUST THE LEVELING
- Remove the 4 shipping bolts with the supplied wrench. ※ Do first lower side to remove easily. - Keep the shipping bolts and spanner for future use. - Insert the 4 caps (provided) into the hole. 		- Turn the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

■ HOW TO CONNECT THE INLET HOSE

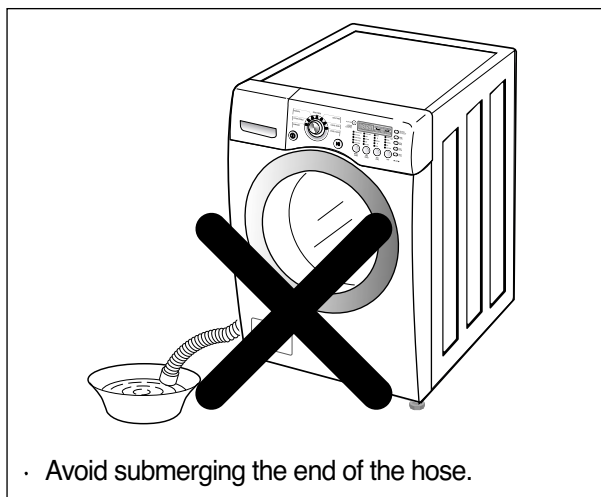
- Verify that the rubber washer is inside of the valve connector.
- Tighten the inlet hose securely to prevent leaks.



■ CONNECT THE DRAIN HOSE



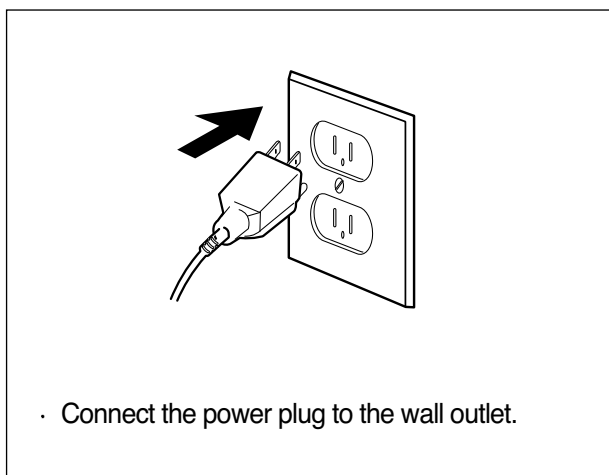
- Make sure that the hose is not twisted.



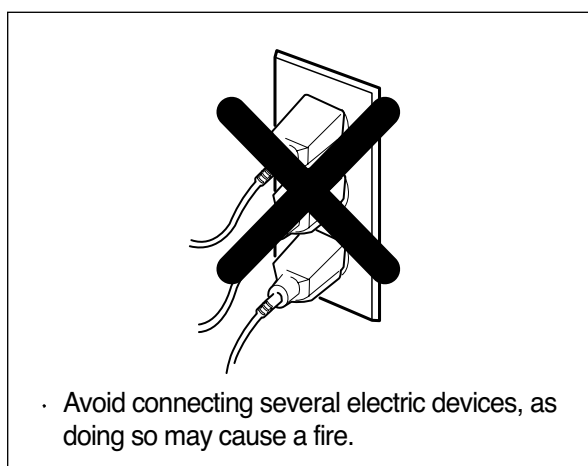
- Avoid submerging the end of the hose.

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

■ CONNECT POWER PLUG

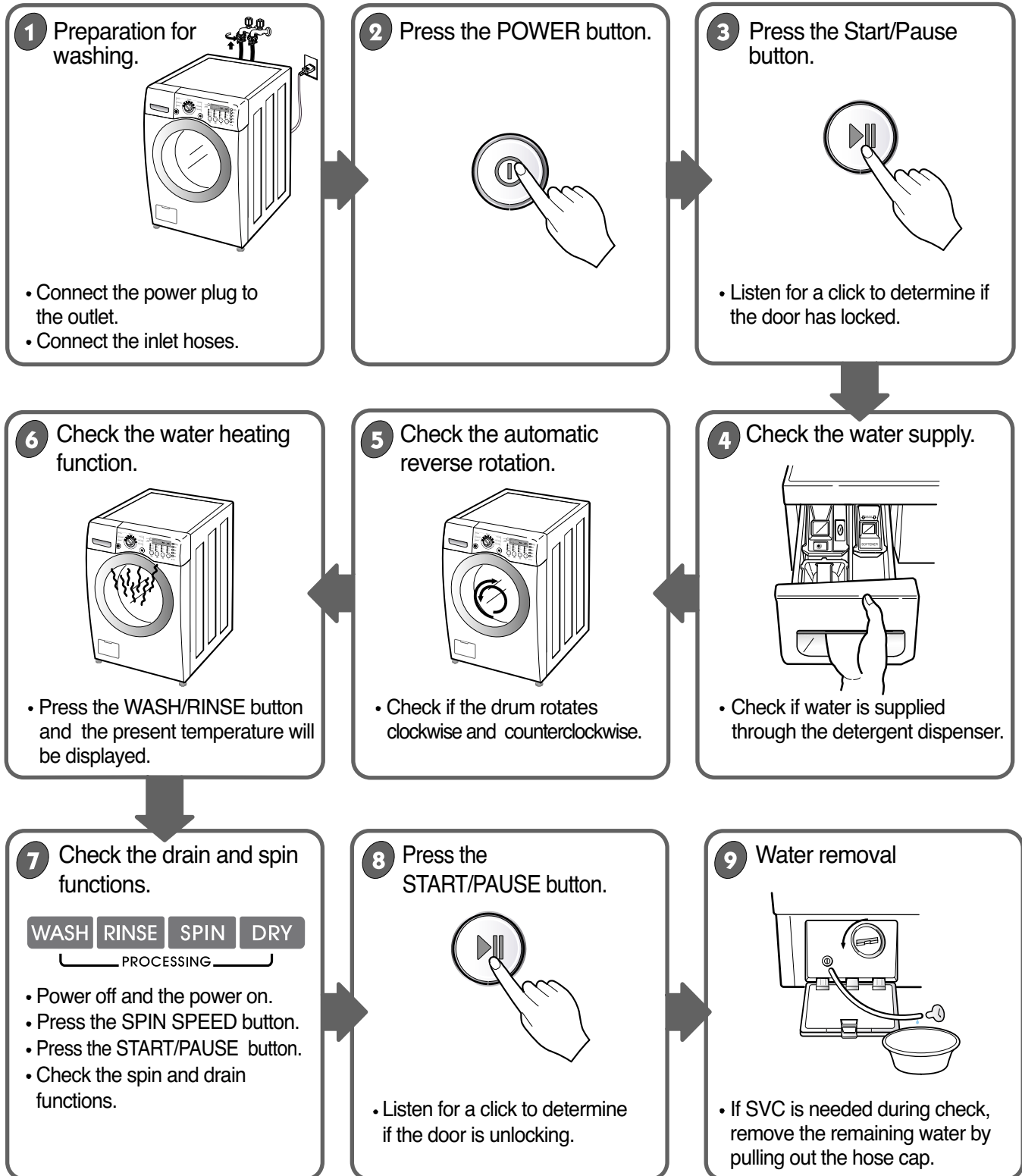


- Connect the power plug to the wall outlet.

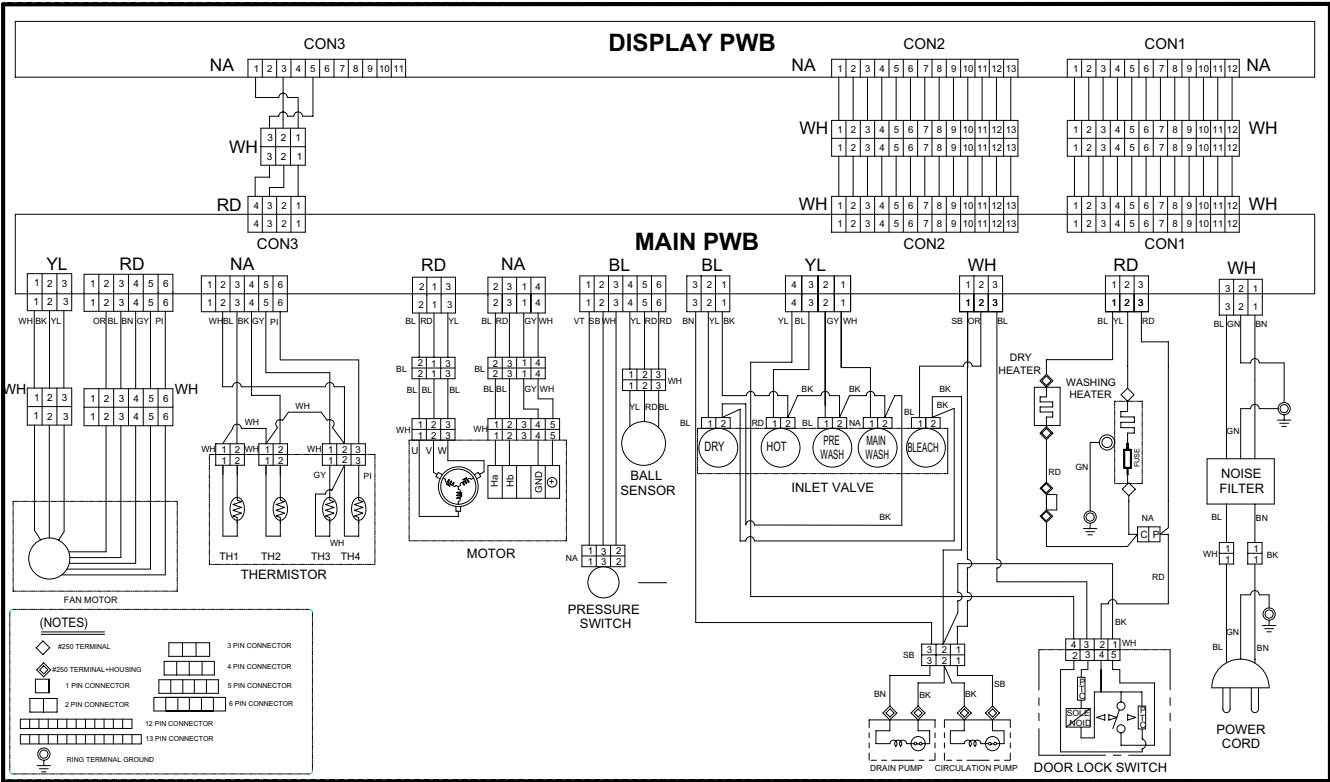


- Avoid connecting several electric devices, as doing so may cause a fire.

7 TEST OPERATION



5. WIRING DIAGRAM/PROGRAM CHART



PROGRAM CHART

* Water Supply: W-S

* Intermittent Spin: I-S

* Disentangle: D-T

C Y C L E C O U R S E	Wash										Rinse										Spin			E N D	A U T O O F F	**Approx. Working Time (Minutes)																											
	Pre				Main						Normal					Extra or Stain					Extra & Stain																																
	Wash		Cool-down		Wash		Cool-down		1		2			3			3			Drain	Spin	D I T																															
	W I S	Wash	Drain	I S	W I S	Heat	Wash	W I S	Rinse	Drain	Drain	I S	W I S	Rinse	Drain	I S	W I S	Rinse	Drain				I S				W I S	Rinse																									
Time (SEC)	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	20	20																						
	60	*	60	300	60	*	60	60	60		60	360	60	240	60	360	60	240	60	300	60	240	60	300	60	240	60	360 - 660	60 - 180																								
Sanitary		8				60																										105																					
Cotton /Towels		8				67 13			1 TIME																							58																					
Normal		8				20 12																										57																					
Perm Press		8				19																										55																					
Delicates		8				18																										34																					
Wool /Silk						14																										34																					
Hand Wash						13																										34																					
Speed Wash						14																										30																					
						8								120			120					120																															
Drain+Spin																																																					12
Wash + Rinse		8					19																									45																					
Rinse + Spin																																29																					

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

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

5. OPERATION

• POWER button

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

• EST.TIME REMAINING

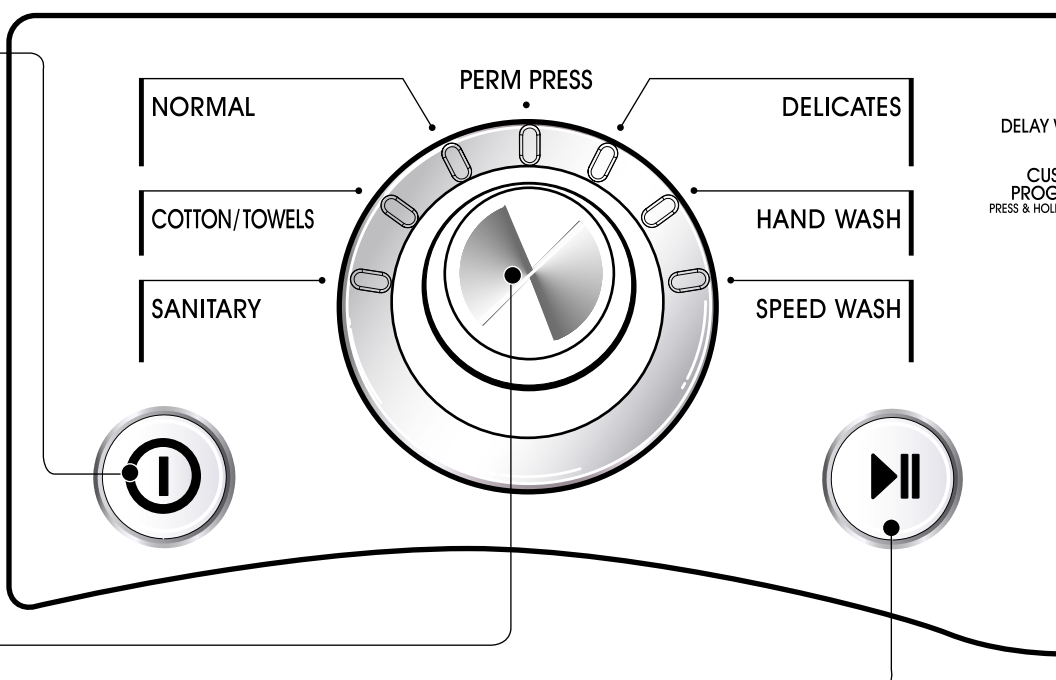
- This display shows:
 - a) the estimated time remaining in the cycle when operating.
 - b) an error code when an error has been detected.

• CHILD LOCK

- Use this option to prevent accidental operation. Press and hold PRE WASH for 3 seconds to lock/unlock control.
- When Child lock is set, all buttons are disabled except the Power button. The Child lock icon can lock the washer when the door is closed.

• CYCLE SELECTOR knob

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



• START/PAUSE button

- Use this button to Start/Stop the washer.

• CUSTOM PROGRAM button

- Allows you to store a customized wash cycle for future use.
- To create a **Custom Program**:
 - 1) Select a cycle.
 - 2) Select the other desired **Wash/Rinse Temp., Spin Speed, Soil Level**.
 - 3) Select the desired Options.
 - 4) Press and hold the Custom Program button for 3 seconds (2 beep sounds). The Custom Program is now stored for future use.
- To reuse the program, select **Custom Program** and press **Start/Pause** (play/pause icon).

LOCK

prevent unwanted use of the washer.
E WASH button for 3 seconds to

set, CHILD LOCK lights and all
except the Power button. You
while it is operating.

• DELAY WASH button

- Allows the start of any cycle to be delayed for 1~12 hours.

• STATUS INDICATOR

- These lights show which portion of the cycle the washer is operating.

• DOOR LOCKED lamp

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

• DRY SELECTOR

- Dry program can be selected by pressing the DRY button.
- By pressing the DRY button, [NORMAL→MORE→30/60/90/120→LOW TEMP.→LESS] can be selected.

WASH

CUSTOM
PROGRAM
& HOLD 3 SEC

- | | | | |
|--------------------------------------|----------------------------------|------------------------------|--|
| ☐ EXTRA HOT/COLD | ☐ EXTRA HIGH | ☐ HEAVY | ☐ 30/60/90/120 (MIN) |
| ☐ HOT/COLD | ☐ HIGH | ☐ ▼ | ☐ MORE |
| ☐ WARM/WARM | ☐ MEDIUM | ☐ NORMAL | ☐ NORMAL |
| ☐ WARM/COLD | ☐ LOW | ☐ ▼ | ☐ LESS |
| ☐ COLD/COLD | ☐ NO SPIN | ☐ LIGHT | ☐ LOW TEMP. |



WASH/
RINSE



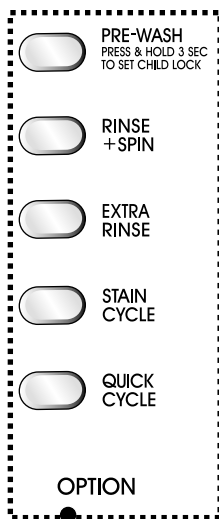
SPIN
SPEED



SOIL
LEVEL



DRY



OPTION

• WASH/RINSE, SPIN SPEED, SOIL LEVEL button

- Select a water temperature based on the type of load you are washing.
- To change the spin speed, press the Spin Speed button repeatedly to cycle through available options.
- To change the soil level, press the Soil Level button repeatedly until the desired setting is on.

• OPTION button

- Prewash:** Use this option for loads that need pretreatment. It adds 16 minutes prewash and drain.
- Rinse+Spin:** Use this option to rinse and then spin.
- Extra Rinse:** This option provides an additional rinse cycle.
- Stain Cycle:** Adds time to the wash and rinse cycles for better stain removal. Automatically provides a rinse.
- Quick Cycle:** The Quick cycle offers a quick cycle time.

7. TROUBLESHOOTING

7-1. BEFORE PERFORMING SERVICE

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

7-2. QC TEST MODE.

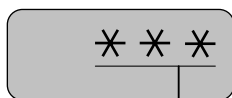
The washer must be empty and the controls must be in the off state.

1. Press the SPIN SPEED and SOIL LEVEL buttons simultaneously.
2. Press the Power (⏻) button, while the above condition. Then buzzer will sound twice.
3. Press the Start/Pause (⏻) button repeatedly to cycle through the test modes.

Number of times the Start/Pause button is pressed	Check Point	Display Status
None	Turns on all lamps and locks the door.	1F:53
1 time	Tumble clockwise.	rpm (40~50)
2 times	Low speed Spin.	rpm
3 times	High speed Spin.	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 bleach turns on.	Water level frequency (25~65)
8 times	Inlet valve for dry 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	Circulation pump turns on.	Water level frequency (25~65)
12 times	Drain pump turns on.	Water level frequency (25~65)
13 times	Dry fan & motor turns on.	Water level frequency (25~65)
14 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.

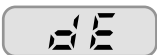


- The digits indicate the water level frequency (x.1 kHz).

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

7-4. ERROR DISPLAY

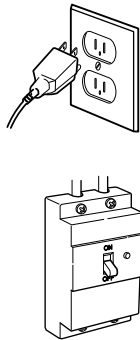
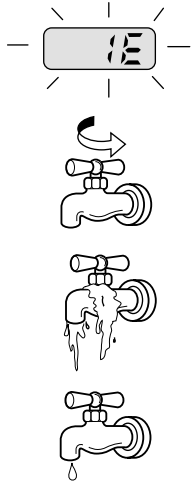
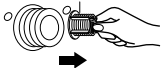
- If you press the START/PAUSE button when an error is displayed, any error except 『PE』 will disappear and the machine will go into the pause status.
- In case of 『PE』, 『UE』, 『OE』 if the error is not resolved within 20 sec., or the in case of other errors, if the error is not resolved within 4 min.,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

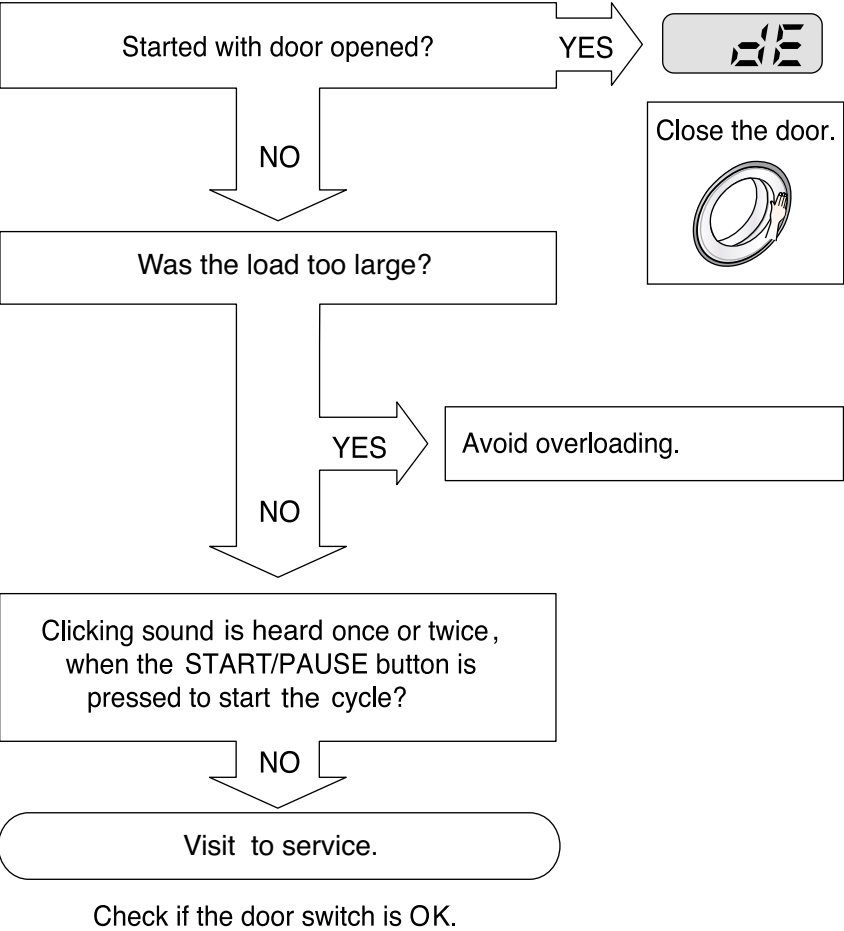
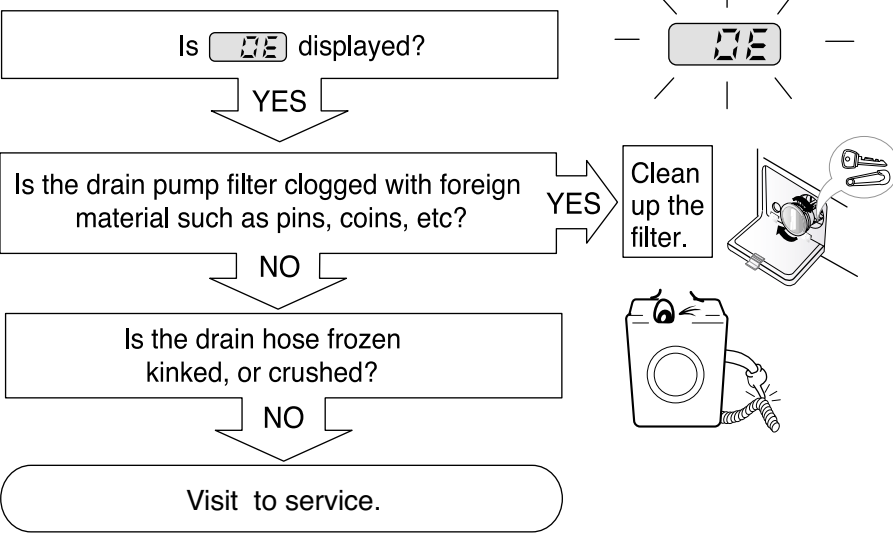
	ERROR	SYMPTOM	CAUSE
1	WATER INLET ERROR		• Correct water level (246) is not reached within 8 minutes after water is supplied or it does not reach the preset water level within 25 minutes.
2	IMBALANCE ERROR		• The load is too small. • The appliance is tilted. • Laundry is gathered to one side. • Non distributable things are put into the drum.
3	DRAIN ERROR		• Not fully drained within 10 minutes.
4	OVER FLOW ERROR		• Water is overflowing (water level frequency is over 213). ※ If  is displayed, the drain pump will operate to drain the water automatically.
5	PRESSURE SENSOR ERROR		• The SENSOR SWITCH ASSEMBLY is out of order.
6	DOOR OPEN ERROR		• 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		• The THERMISTOR is out order.

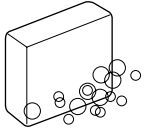
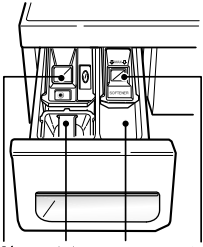
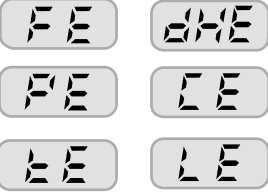
	ERROR	SYMPTOM	CAUSE
8	OVER CURRENT ERROR		• MAIN PWB ASSEMBLY is out of order. • Winding in the STATOR ASSEMBLY is short-circuited.
9	LOCKED MOTOR ERROR		• The connector (3-pin, male, white) in the MOTOR HARNESS is not connected to the connector (3-pin, female, white) of STATOR ASSEMBLY. • The electric 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	BALL SENSOR ERROR		• Loose Ball Sensor Connector. • Ball Sensor is out of order. ※ Displayed only when the START/PAUSE button is first pressed in the QC Test Mode.
11	EEPROM ERROR		• EEPROM is out of order. ※ Displayed only when the START/PAUSE button is first pressed in the QC Test Mode.
12	POWER FAILURE		• The washer experienced a power failure.
13	DRY HEATER ERROR		• The Dry Heater is out of order. - Replace the Dry Heater • The connector of the Dry Heater is not connected properly to the connector in the main PWB ASSEMBLY. - Reconnect or repair the connector. • The Dry Fan Motor is out of order. - Replace the fan motor.

8. ERROR DIAGNOSIS AND CHECK LIST

8-1. DIAGNOSIS AND SOLUTION FOR ABNORMAL OPERATION

SYMPTOM	GUIDE FOR SERVICE CALL
No power	Is the power plug connected firmly to 120 V AC outlet? YES Power failure? or Breaker opened? Is the outlet controlled by a switch? NO Visit to service. 
Water inlet trouble 	Is  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 NO Visit to service.  Clean the filter of inlet valve 

SYMPTOM	GUIDE FOR SERVICE CALL
Door error 	 <pre> graph TD Q1[Started with door opened?] -- YES --> A1[Close the door.] Q1 -- NO --> Q2[Was the load too large?] Q2 -- YES --> A2[Avoid overloading.] Q2 -- NO --> Q3[Clicking sound is heard once or twice, when the START/PAUSE button is pressed to start the cycle?] Q3 -- NO --> A3([Visit to service.]) A3 --> C[Check if the door switch is OK.] </pre>
Drain trouble 	 <pre> graph TD Q1[Is 0E displayed?] -- YES --> Q2[Is the drain pump filter clogged with foreign material such as pins, coins, etc?] Q2 -- YES --> A1[Clean up the filter.] Q2 -- NO --> Q3[Is the drain hose frozen, kinked, or crushed?] Q3 -- NO --> A2([Visit to service.]) </pre>

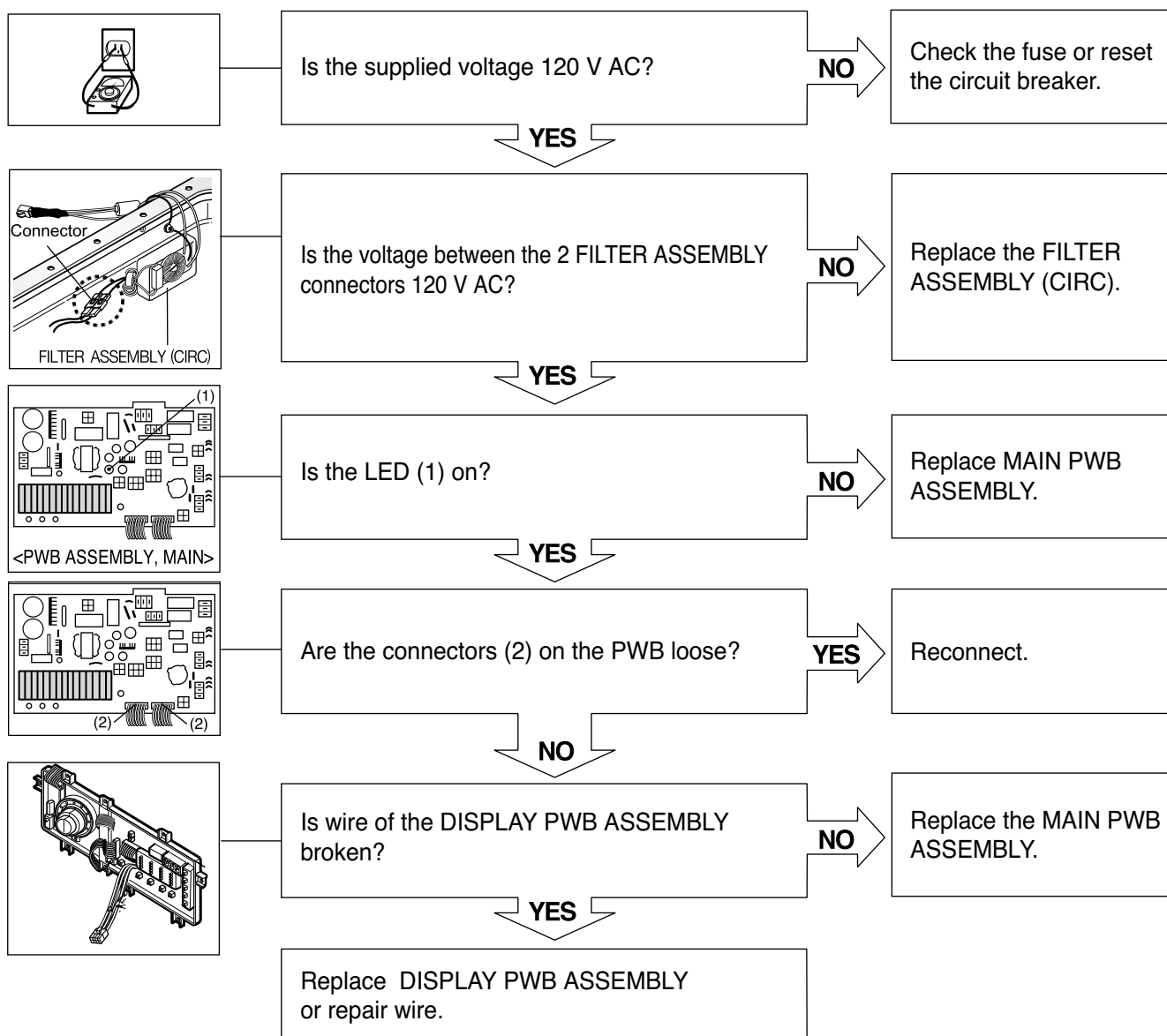
SYMPTOM	GUIDE FOR SERVICE CALL
Suds overflow from the appliance. (In this condition, wash and spin do not operate normally)	Is a low-sudsing detergent used? YES Is the proper amount of detergent used as recommended? YES Recommend to reduce the amount of detergent. * This appliance has an automatic suds sensing function which prevents overflow. * When excessive suds are sensed, the suds removing implementations such as drain, water input, pause will operate, without rotating the drum.  LOW-SUDSING
Liquid laundry products do not flow in.	Is liquid laundry product put in the correct compartment of the dispenser? YES Is the cap clogged? YES Explain proper use of liquid laundry products. Clean the compartment.  (1) Liquid chlorine Bleach Compartment (2) Liquid fabric Softener Compartment (3) Prewash Compartment (4) Main Wash Compartment
	Visit to service.

8-2. FAULT DIAGNOSIS AND TROUBLESHOOTING

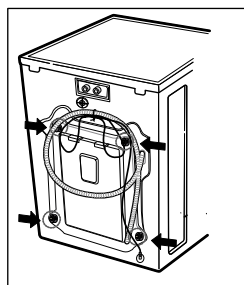
⚠ CAUTION

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



VIBRATION & NOISE IN SPIN



Have all the transit bolts and base packing been removed?

NO

Remove the transit bolts and Base packing.

YES

Is the washer installed on a solidly constructed floor?

NO

Move the washer or reinforce the floor.

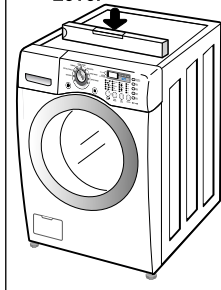
YES



Base Packing

Check if the washer is perfectly level as follows:

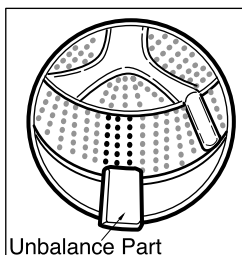
Level



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

Put an unbalance part (rubber) inside of drum and start QC test mode and run in high spin (Refer to section 7-2).

When the machine is spinning in high speed, verify that it is stable.



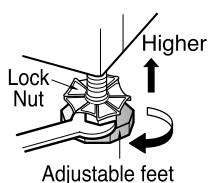
Unbalance Part

If you do not have the unbalance part, put 4.5 to 6.5 lbs (2 to 3 kg) of clothing. Once loaded, press power, Rinse+Spin and the start/pause button in sequence.

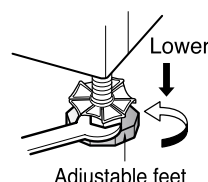
When the machine is spinning in high speed, verify that it is stable.

YES

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



Adjustable feet

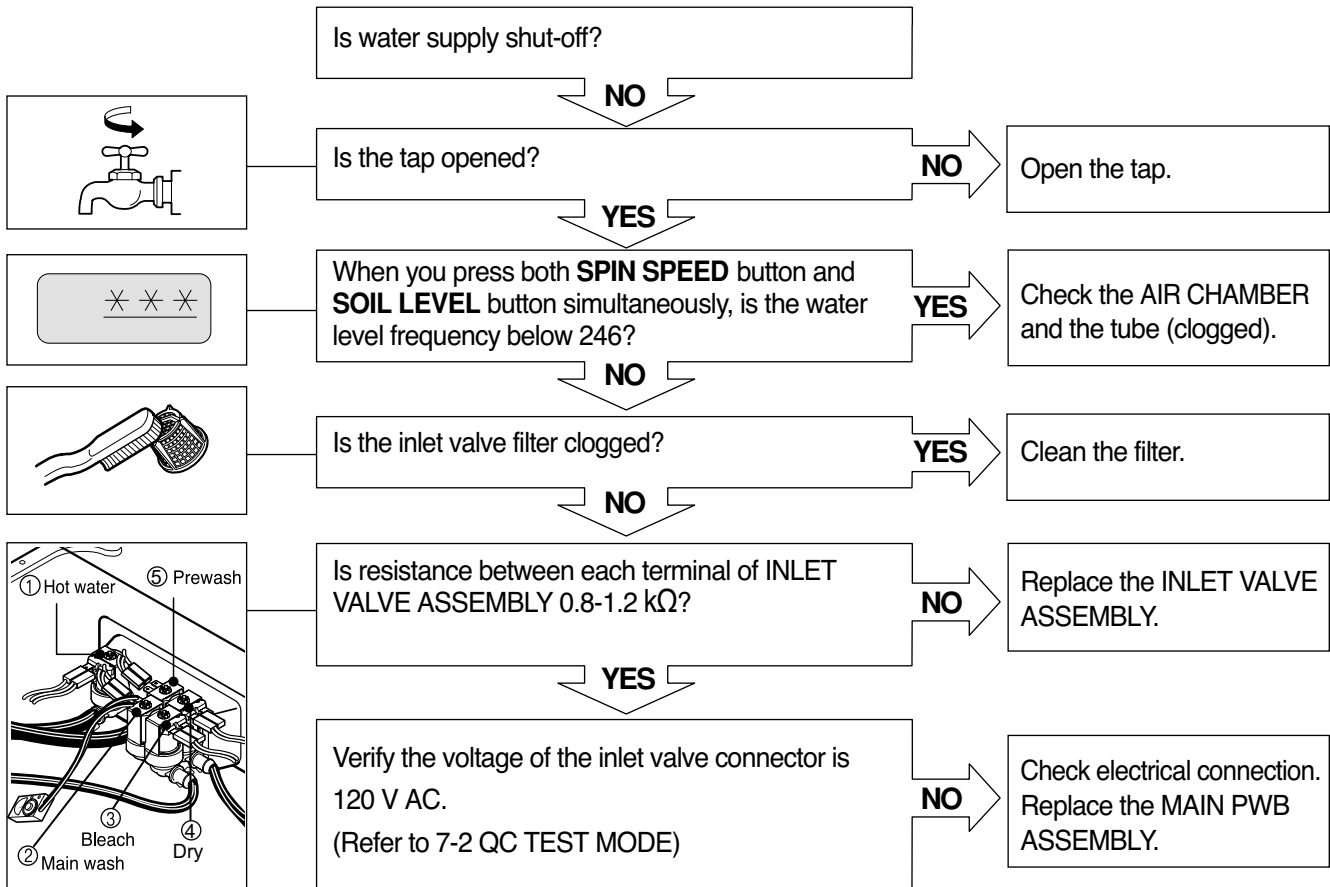


Adjustable feet

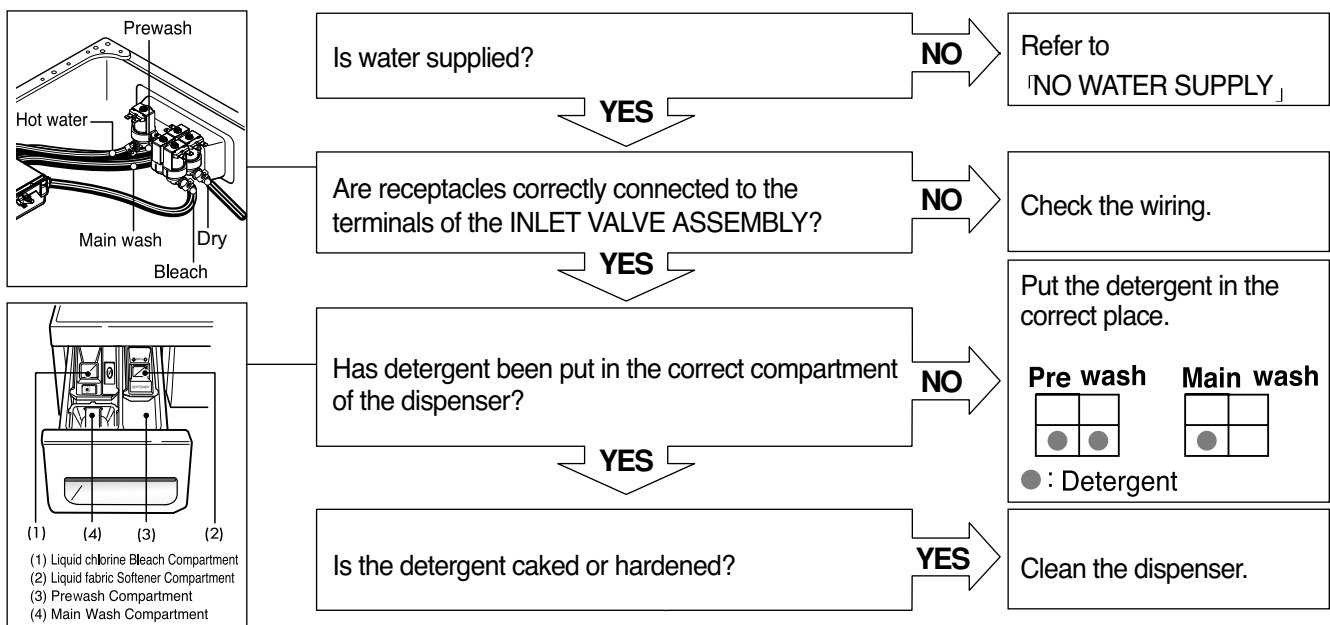
If it still has severe vibration and noise, regulate a specific spin speed that generates excessive vibration and noise as follows:

- 1) Put an unbalance part (rubber) inside of the drum.
 - 2) Start the QC test mode (Refer to section 7-2).
 - 3) Press Delay Wash button, then ‘ ㄹ ㄷ ㄹ ’ is displayed.
 - 4) Press the Spin Speed button repeatedly to select Extra High.
 - 5) Press the Quick Cycle button, the spin speed is displayed.
 - 6) Press the Start/Pause button.
 - 7) Press the Dry button repeatedly to set spin speed (600, 900, 1020, 1120 rpm) and check if there is vibration and noise.
 - 8) If there is no vibration and noise, increase the spin speed by pressing Dry button.
 - 9) If there is vibration and noise, rotate the Cycle selector knob clockwise to reduce the Spin Speed (reduce by 50 and 100 rpm). In case of 600 rpm, it can not reduce the spin speed.
 - 10) If vibration and noise are reduced, press the Quick Cycle button to store (2 beep sounds).
- * If you want to return to factory default spin speed setting, repeat above steps except step 9).

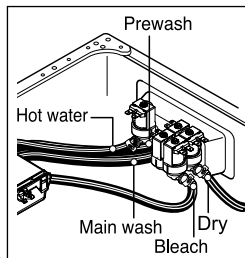
NO WATER SUPPLY



DETERGENT DOES NOT FLOW IN



LIQUID DETERGENT/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.

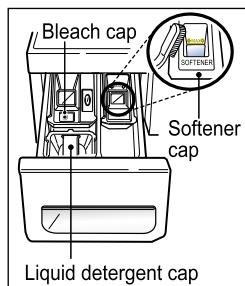
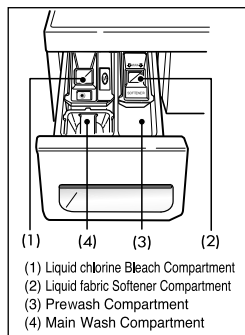
YES

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

NO

Put it in the correct
compartment.

YES

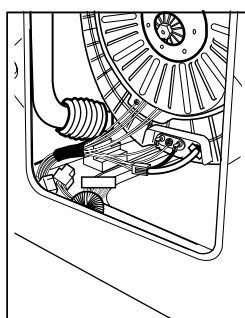


Is the liquid detergent/softener/bleach cap clogged?

YES

Clean the Cap and
Container.

ABNORMAL SOUND



Is the motor bolt loosened?

YES

Secure the bolt.

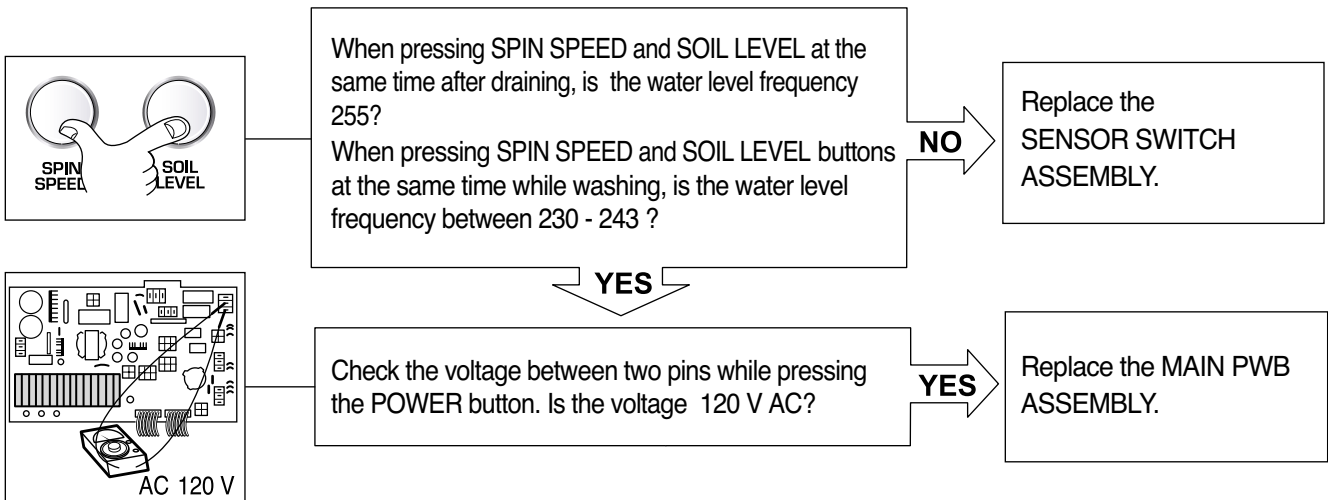
NO

Is there friction noise coming from the motor?

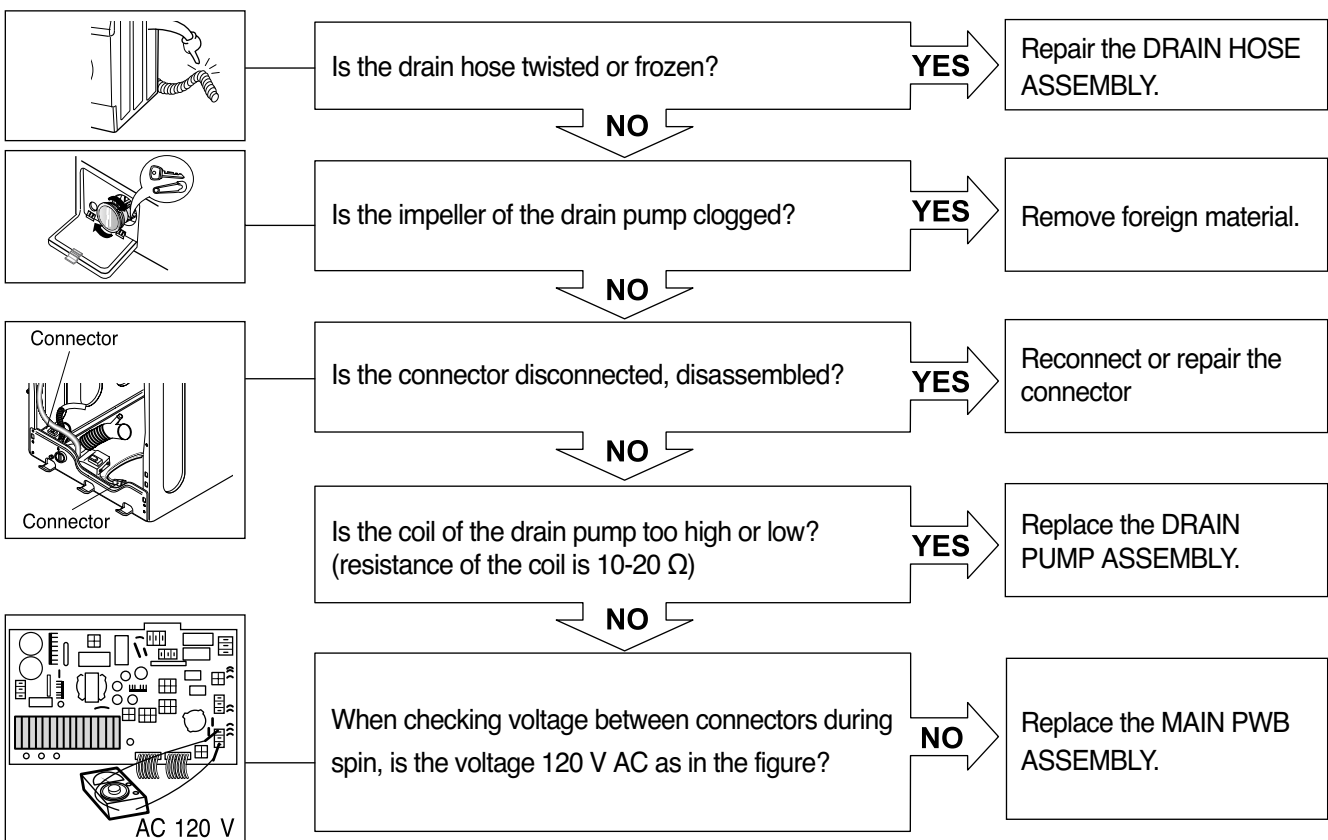
YES

Replace the STATOR
ASSEMBLY or ROTOR
ASSEMBLY.

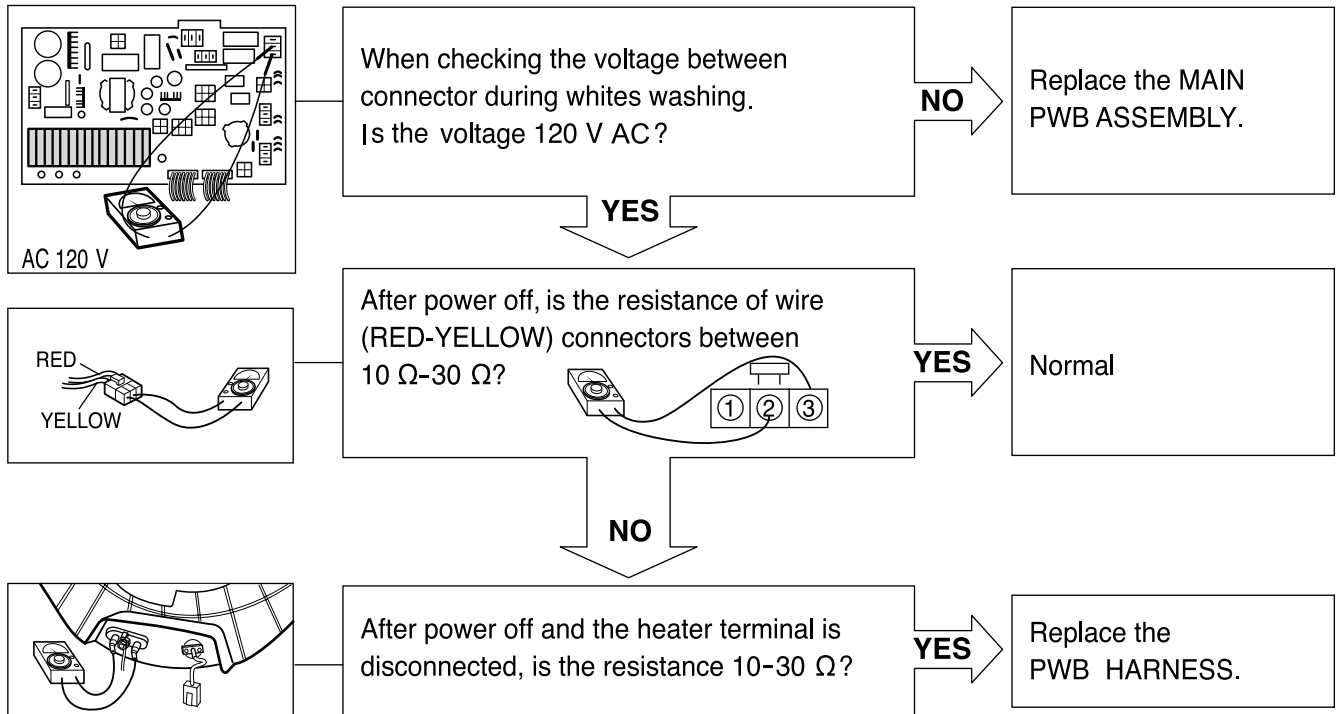
HEATING WITHOUT WATER



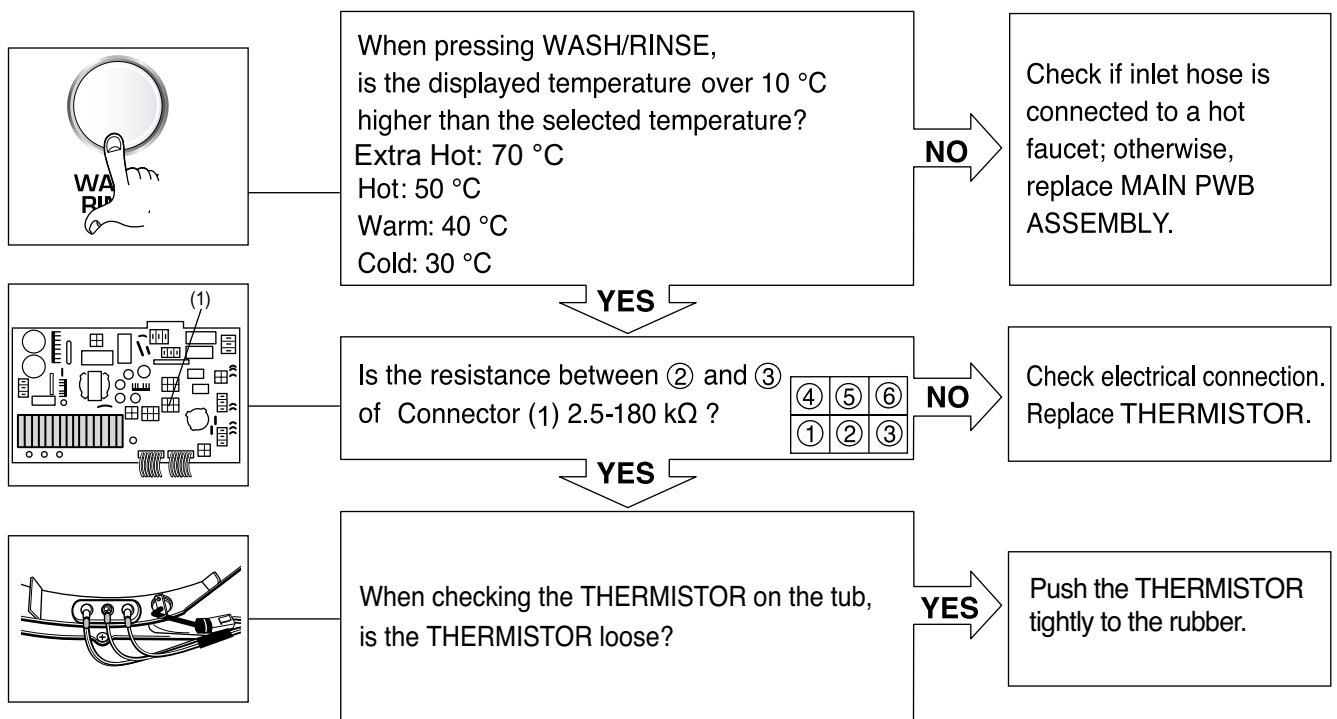
DRAIN MALFUNCTION



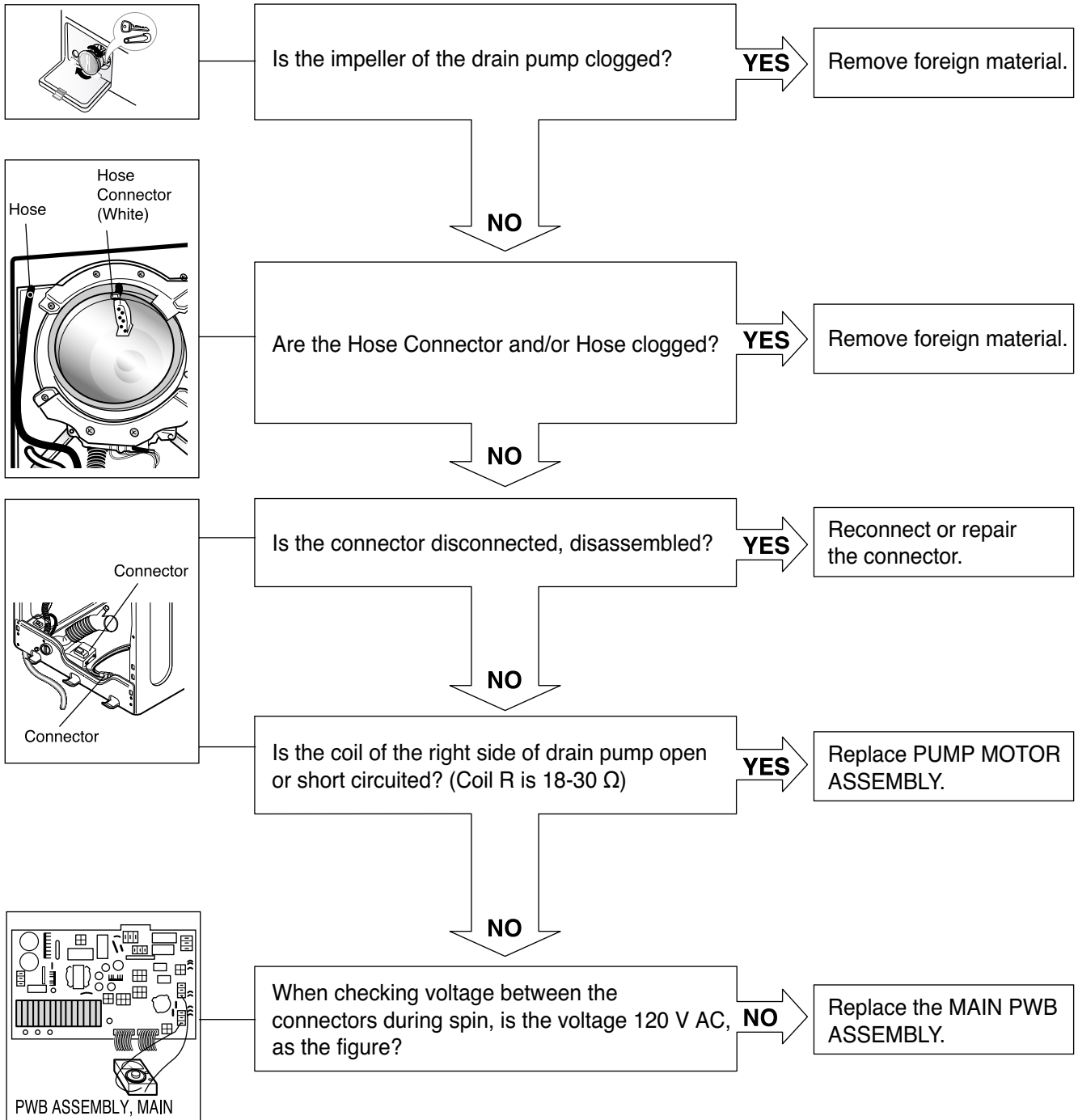
WASH HEATER TROUBLE



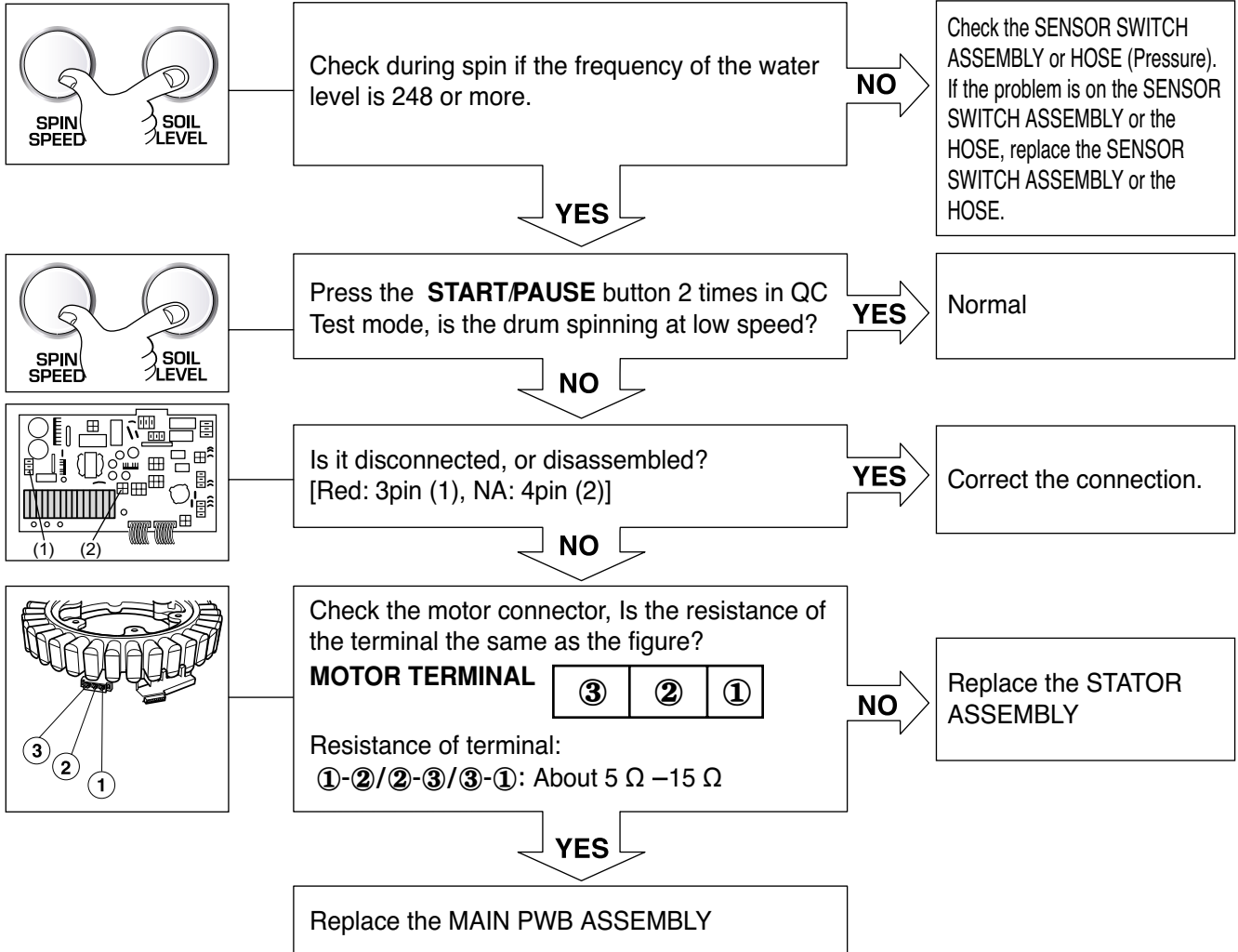
HEATING CONTINUOUSLY ABOVE THE SETTING WATER TEMPERATURE



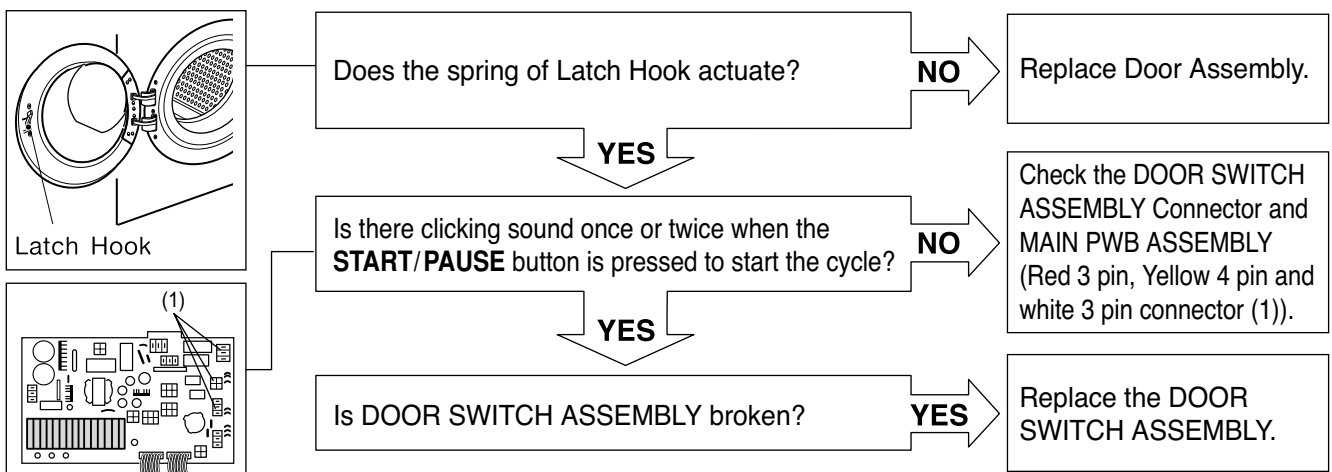
WILL NOT CIRCULATE WATER



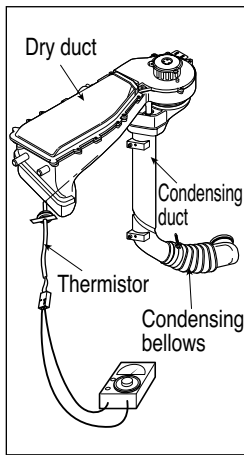
SPIN TROUBLE



ERROR



ERROR DISPLAY



Is the resistance of thermistors on dry duct $2.5\text{k}\Omega \sim 180\text{k}\Omega$ (at $100^\circ\text{C} \sim 0^\circ\text{C}$).

NO

Replace the thermistor.
6322FR2046C :
Dry Duct

YES

CHECK FOR DRY HEATER TROUBLE

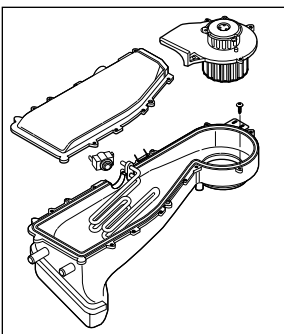
CHECK FOR DRY FAN MOTOR TROUBLE

Disassemble the cabinet cover and condensing bellows.
Is there any foreign object in the condensing bellows.

YES

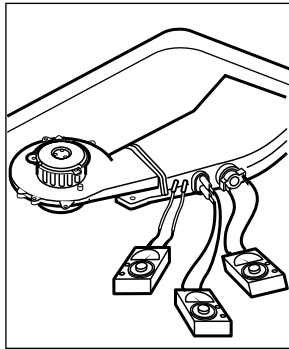
Clean the bellows

NO



Disassemble the dry fan assembly and dry duct upper, and remove foreign objects in duct and fan.

DRY HEATER TROUBLE



After power off, is the resistance of dry heater 10 ~ 40Ω?

NO

Replace the dry heater.

YES

Is thermostat closed?

NO

Replace the thermostat.

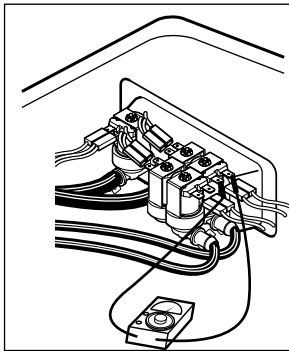
YES

Is thermal fuse cut?

NO

Replace the thermal fuse.

YES



When checking voltage between connectors (① , ②) on drying, is the voltage AC 110 V as the figure?
(wire color : ① - Red, ② - Blue)

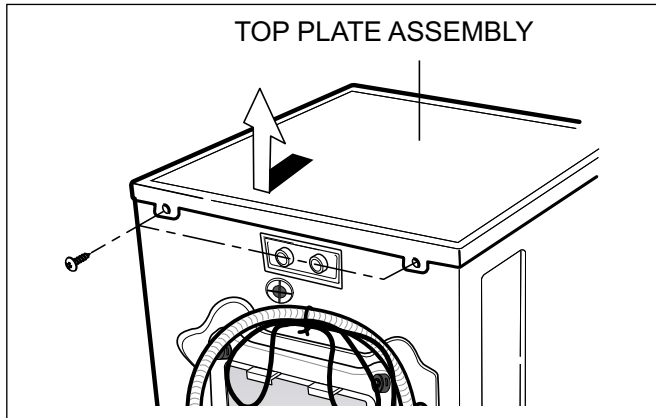
NO

Replace the PWB ASSEMBLY(MAIN)

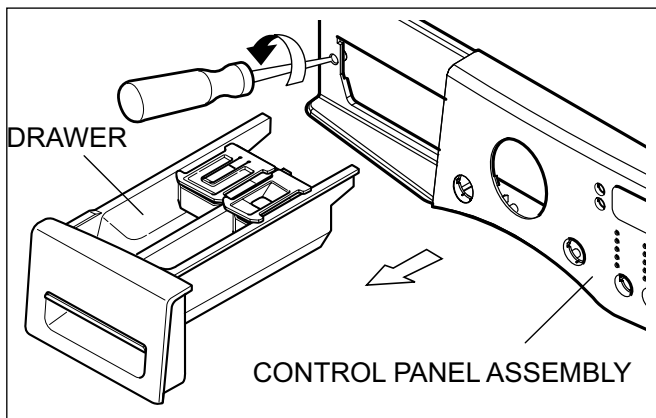
9. DISASSEMBLY INSTRUCTIONS

* Be sure to unplug the machine out of the outlet before disassembling and repairing the parts.

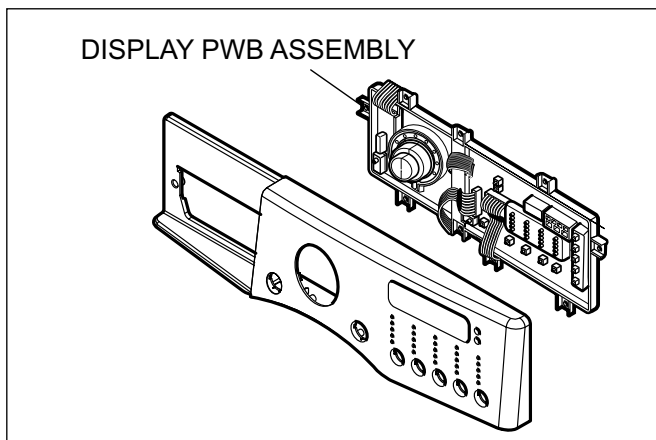
CONTROL PANEL ASSEMBLY



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

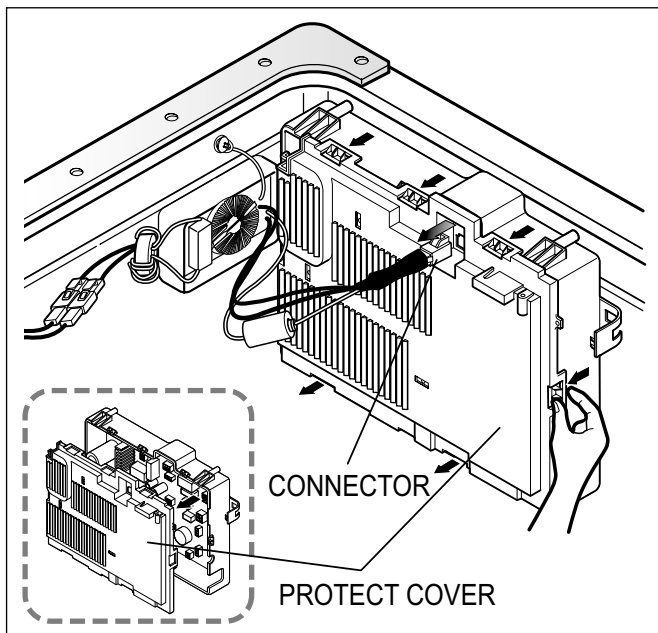


- ③ Disconnect the Display PWB Assembly connector from Trans cable.
- ④ Pull out the drawer and unscrew 2 screws.
- ⑤ Lift the left side of the Control Panel Assembly and pull it out.

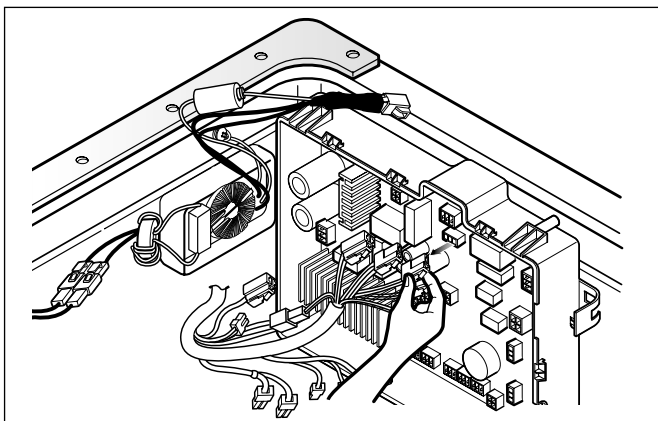


- ⑥ Unscrew the 9 screws from the Control Panel Assembly.
- ⑦ Disassemble the Display PWB Assembly.

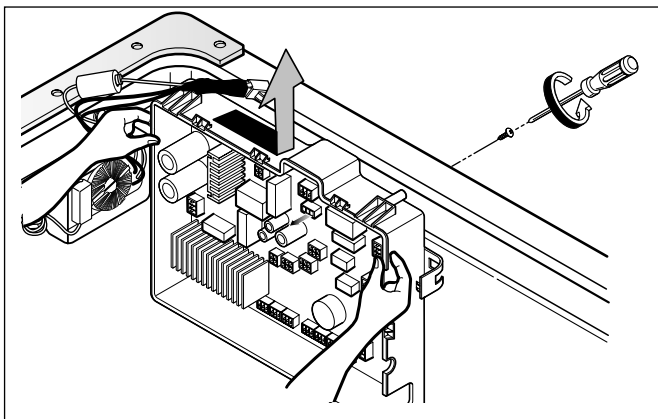
MAIN PWB ASSEMBLY



- ① Disconnect the POWER connector and SENSOR SWITCH ASSEMBLY.
- ② Remove the Protect Cover.

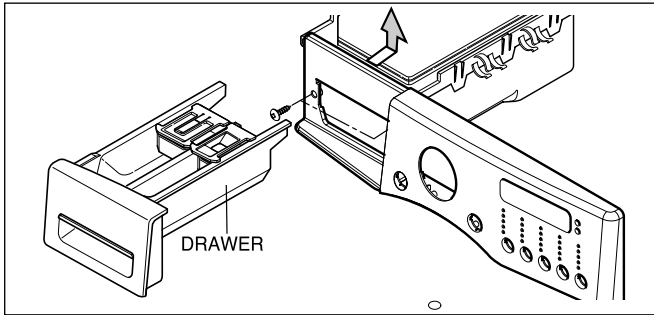


- ③ Disconnect the connectors.

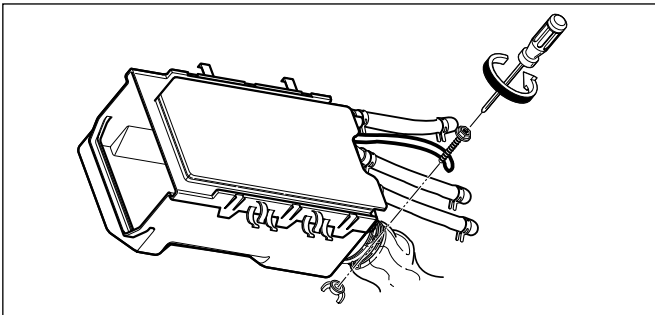


- ④ Unscrew 1 screw on the back.
- ⑤ Disassemble the Main PWB.

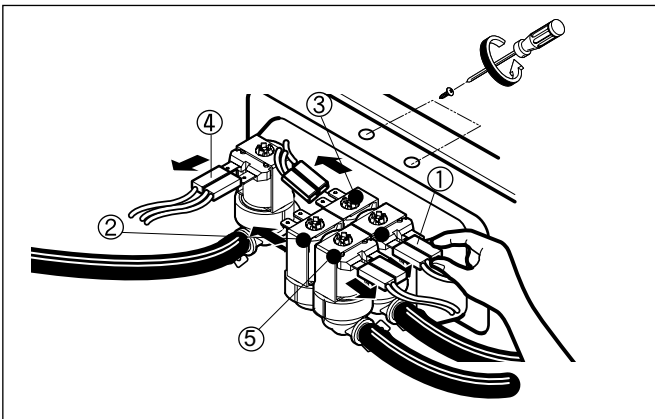
DISPENSER ASSEMBLY



- ① Disassemble the top plate assembly.
- ② Pull out the drawer.
- ③ Push out the DISPENSER ASSEMBLY after unscrew 2 screws.



- ④ Unscrew the nut at the lower part of the dispenser.



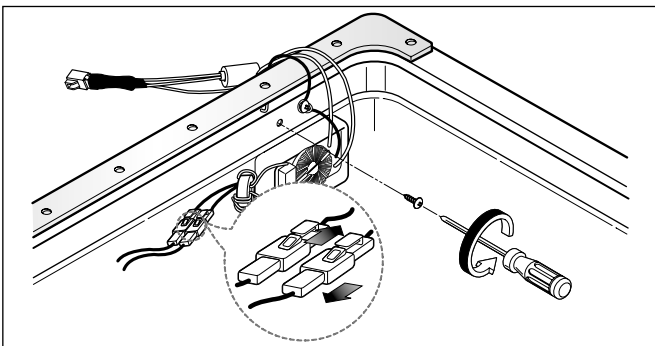
- ⑤ Disassemble the 4 connectors from the valves.

※ Wire Color

- ① Blue Housing (YL-BK)
- ② White Housing (WH-BK)
- ③ Blue Housing (GY-BK)
- ④ Red Housing (BL-BK)
- ⑤ White Housing (OR-BK)

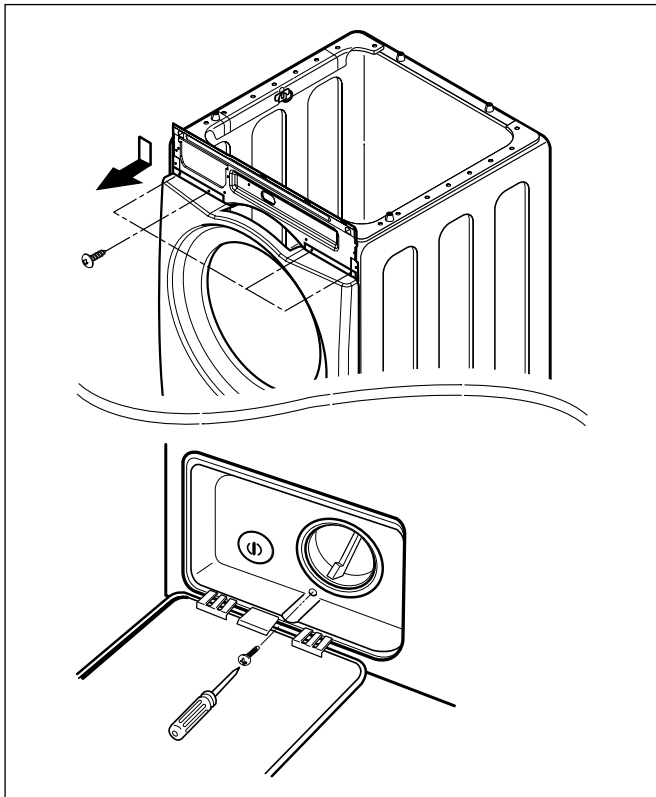
- ⑥ Unscrew 2 screws from the back of the cabinet.

NOISE FILTER

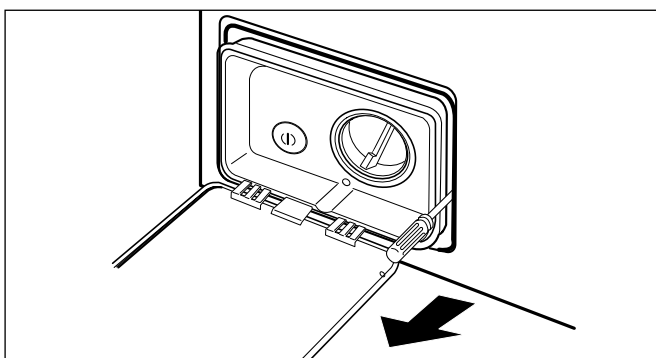


- ① Unscrew a screw from the TOP BRACKET.
- ② Disassemble two connectors from the POWER CORD.

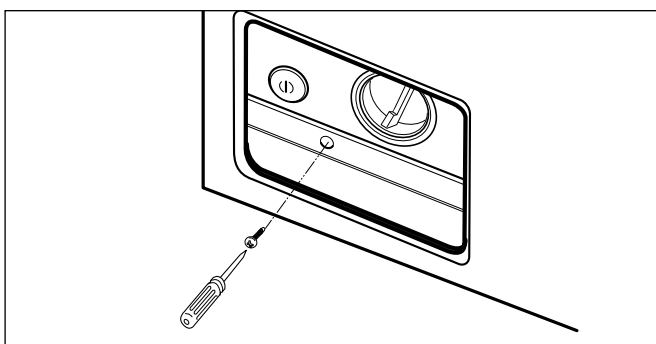
CABINET COVER



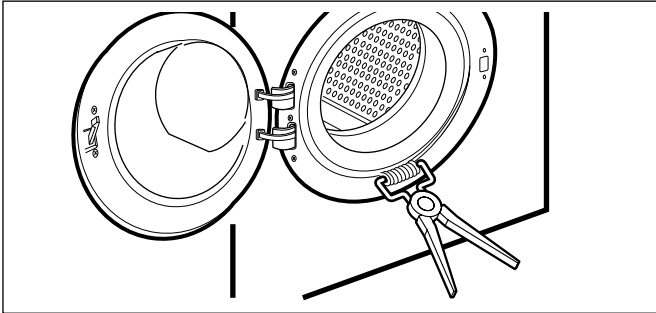
- ① Unscrew the 4 screws from upper of the cabinet cover.
- ② Unscrew the screw from filter cover.



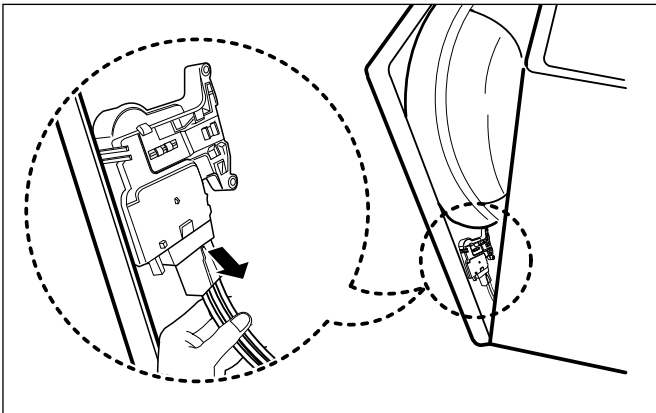
- ③ Put a flat (-) screwdriver or putty knife into the both sides of the filter cover, and pull it out.



- ④ Unscrew the screw from the lower side of the cabinet cover.

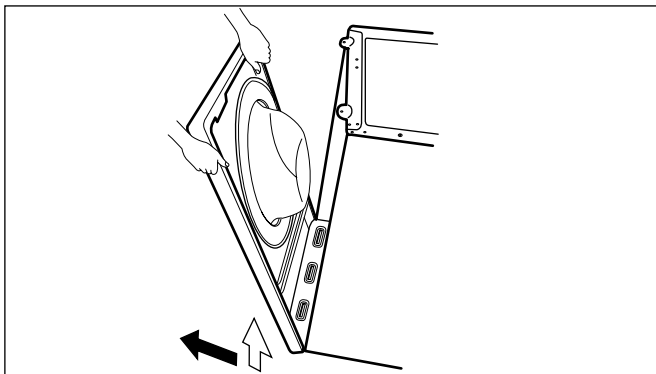


- ⑤ Open the door.
- ⑥ Disassemble the clamp assembly.

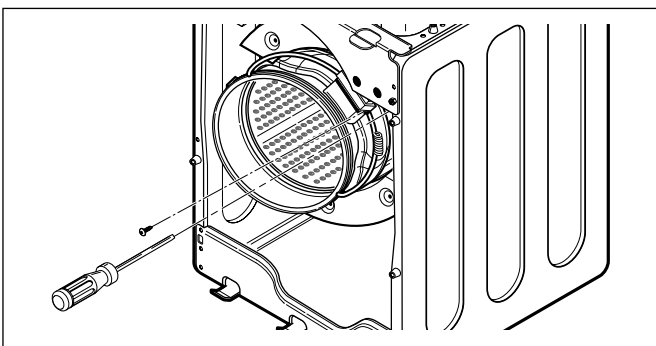


- ⑦ Tilt the cabinet cover.
- ⑧ Disconnect the door switch connector.

※ **NOTE:** When assembling the CABINET COVER, connect the connector.

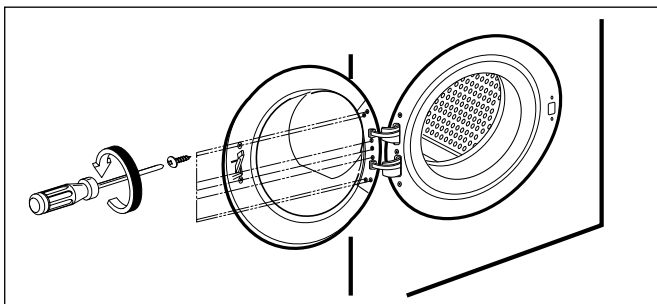


- ⑨ Lift and separate the cabinet cover.

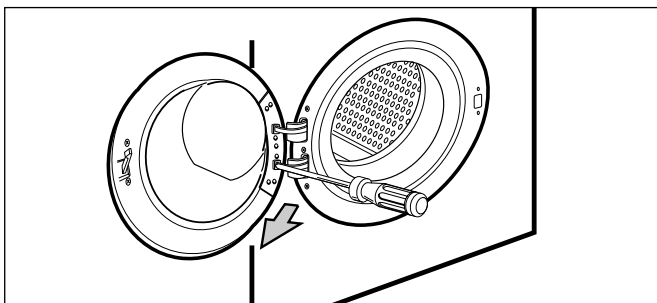


- ⑩ Disassemble the clamp assembly.
- ⑪ Disassemble the Gasket.

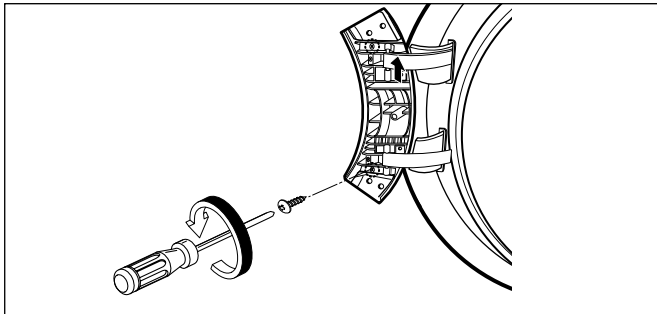
DOOR



- ① Open the door.
- ② Unscrew the 7 screws from the HINGE COVER.



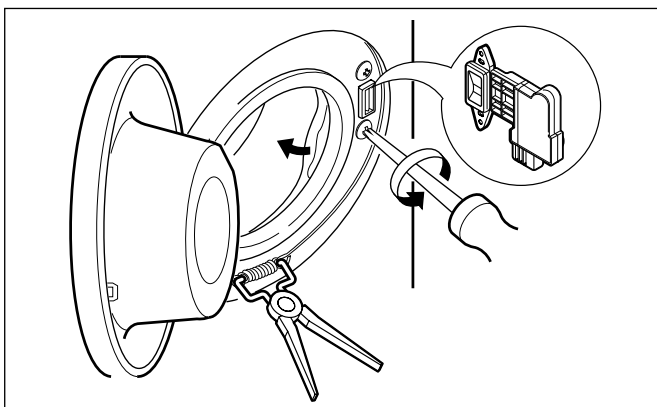
- ③ Put a flat (-) screwdriver into the opening of the hinge, and pull out the hinge cover.



- ④ Unscrew a screw from the lower side of door.
- ⑤ Disassemble the door upward.

※ **Be careful!** The door is heavy.

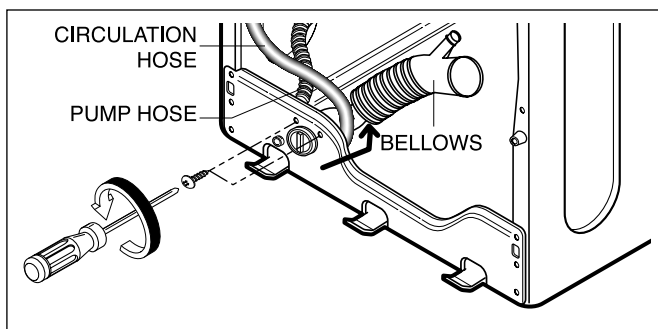
DOOR LOCK SWITCH ASSEMBLY



- ① Open the door and disassemble the CLAMP ASSEMBLY.
- ② Unscrew the 2 screws.

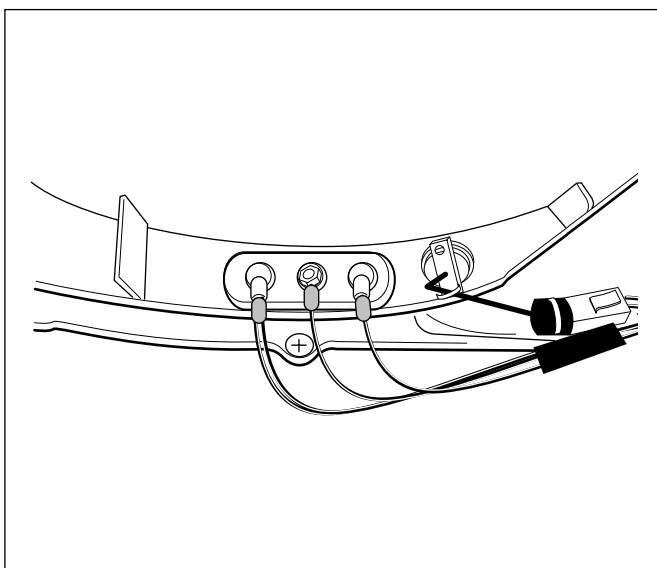
※ **NOTE**
• Reconnect the connector after replacing the DOOR SWITCH ASSEMBLY.

PUMP



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

HEATER

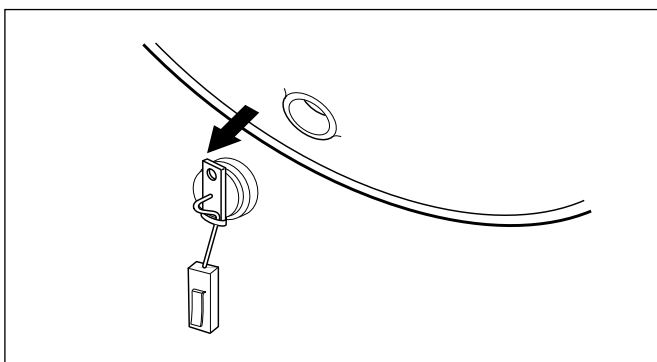


- ① Disassemble the cabinet cover.
- ② Separate 2 connectors from the heater.
- ③ Loosen the nut and pull out the heater.

※ CAUTION

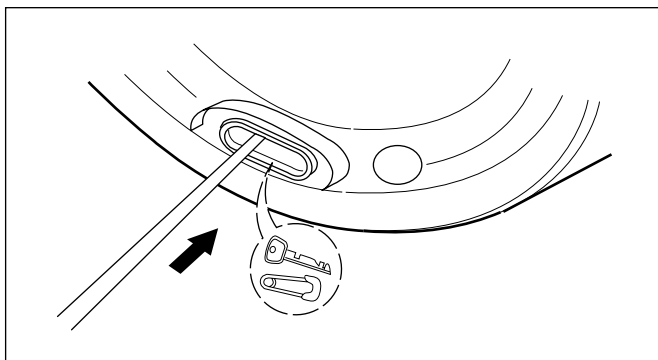
- When assembling the heater, insert the heater into the heater clip on the bottom of the tub.
- Tighten the fastening nut so the heater is secure.

THERMISTOR



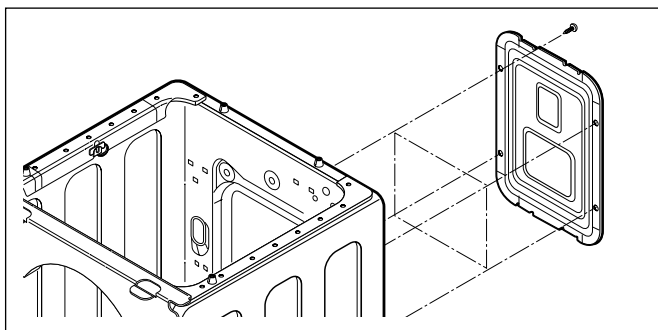
- ① Disassemble the cabinet cover.
- ② Unplug the white connector from the thermistor.
- ③ Pull it out by holding the bracket of the thermistor.

WHEN FOREIGN OBJECT IS STUCK BETWEEN DRUM AND TUB

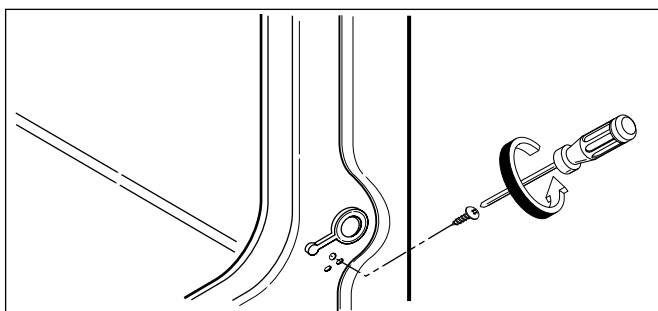


- ① Disassemble the cabinet cover.
- ② Separate the heater from the tub.
- ③ Remove any foreign objects (wire, coin, etc.) by inserting a long bar in the opening.

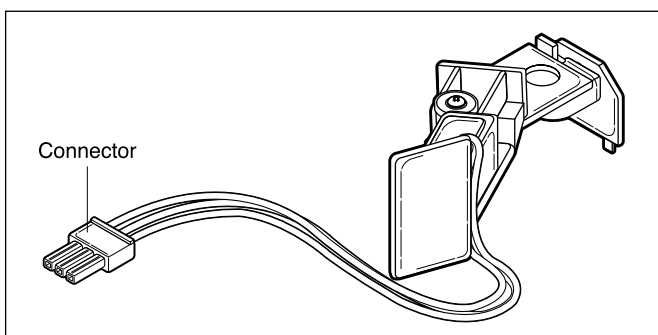
SENSOR ASSEMBLY(BALL SENSOR)



- ① Unscrew the 4 screws from the back cover.

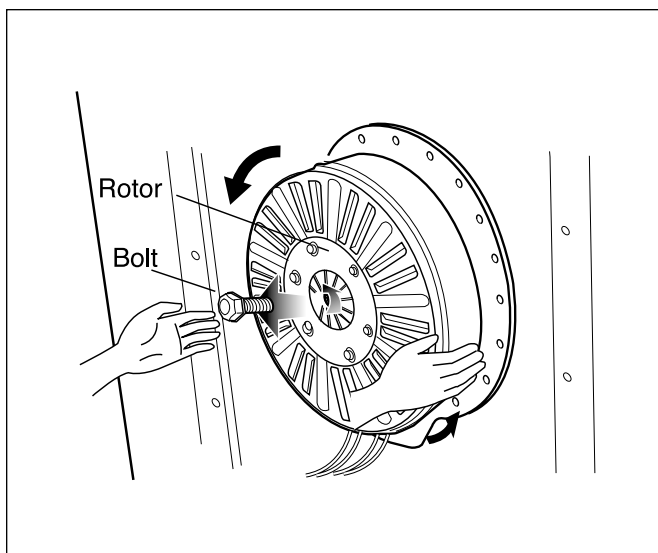


- ② Unscrew the single screw from the lower-right side of the cabinet.

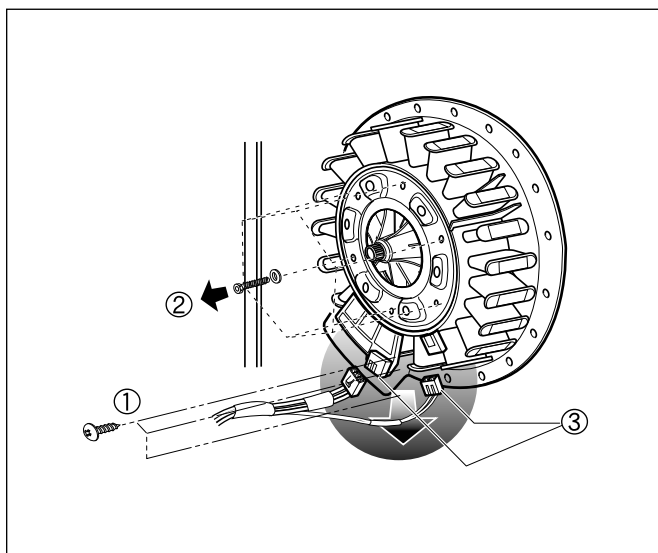


- ③ Disconnect the connector from PWB Harness.

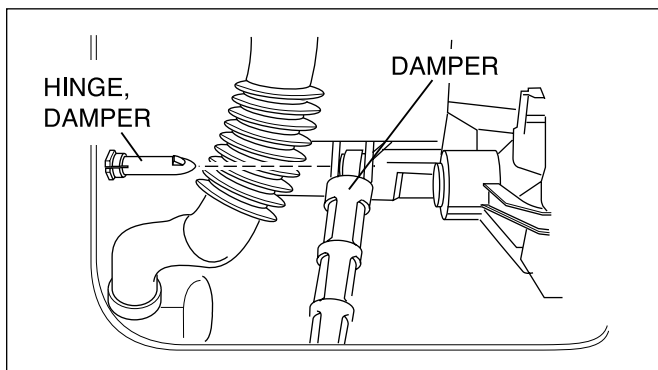
MOTOR/DAMPER



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



- ① Unscrew the 2 screws from the tub bracket.
- ② Remove the 6 bolts on the stator.
- ③ Unplug the 2 connectors from the stator.



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

※ NOTE

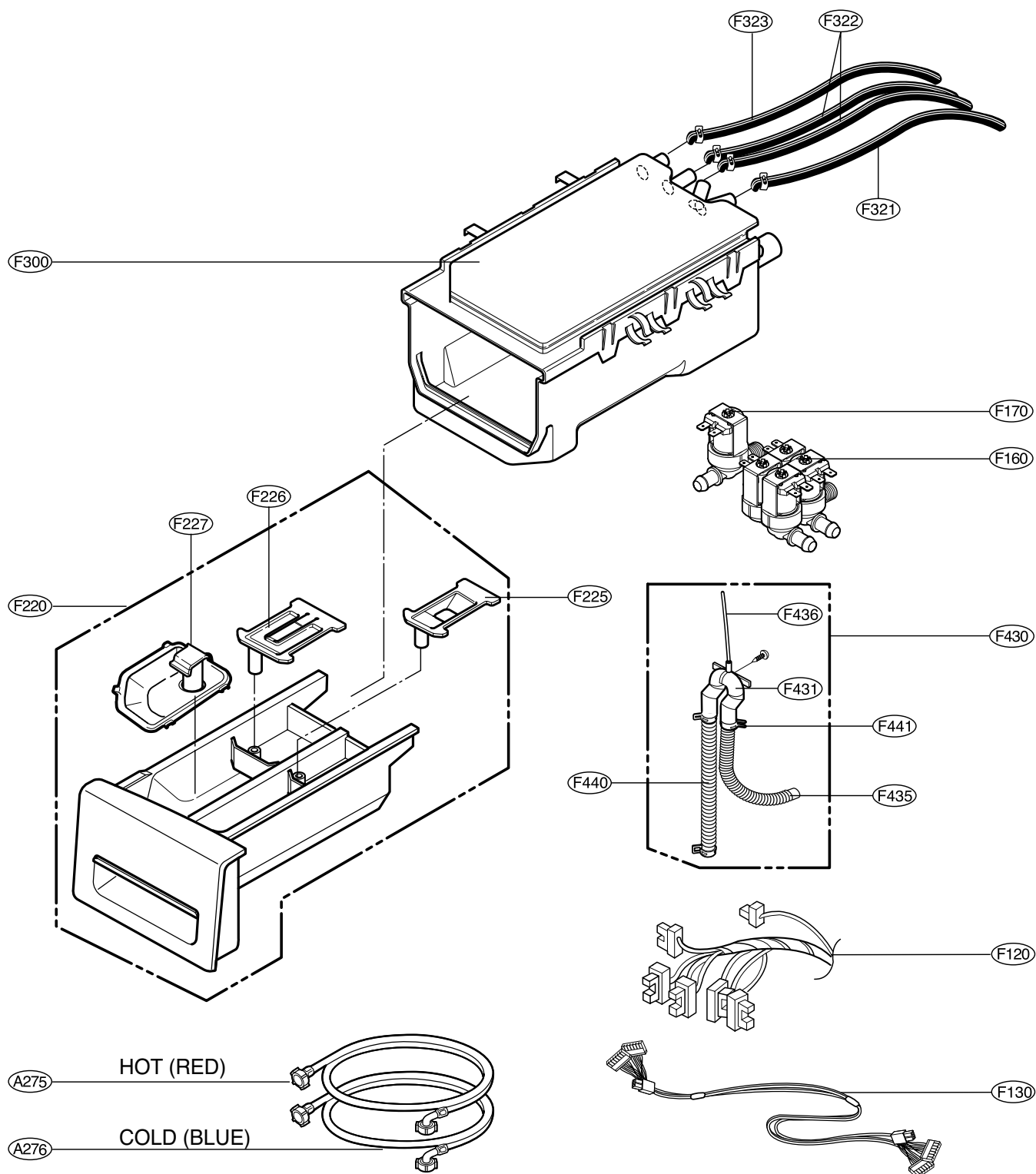
- Once removed, replace the damper with new one.

10-1. CABINET & CONTROL PANEL ASSEMBLY

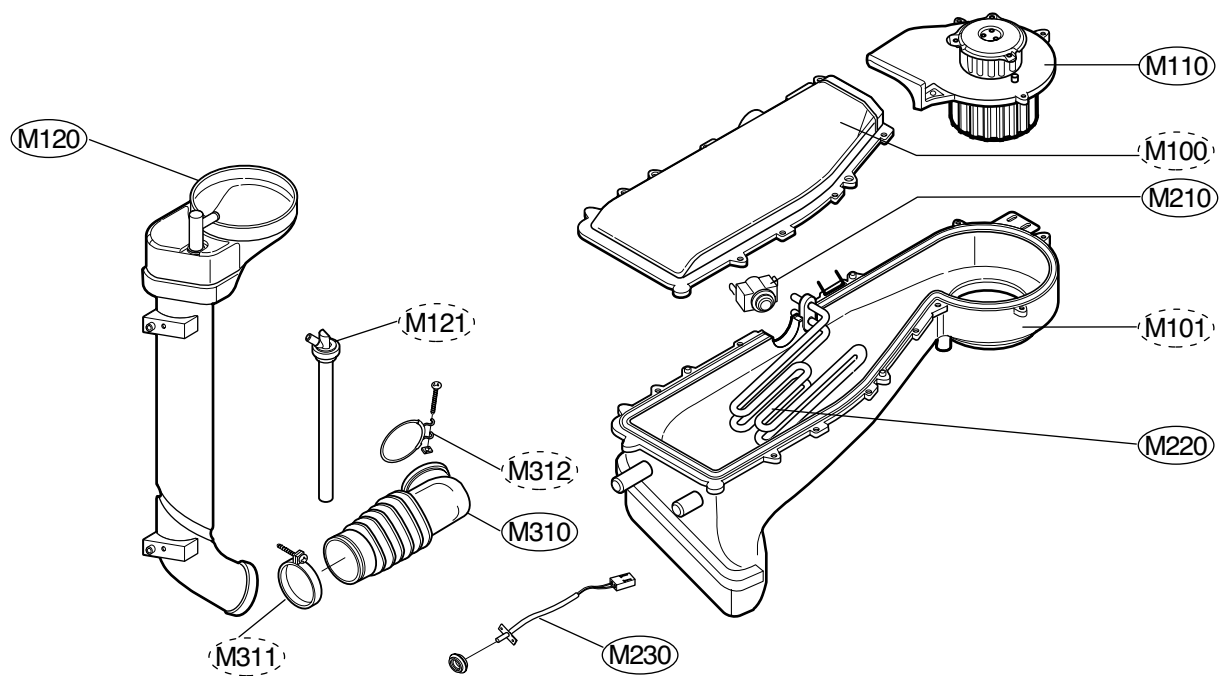




10-3. DISPENSER ASSEMBLY



10-4. DRYER





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