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WASHING MACHINE SERVICE MANUAL

▲ CAUTION

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

MODEL: WM2455H* / WM2301H*





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1. SPECIFICATIONS

ITEM		WM2455H* / WM2301H*				
COLOR		W:BLUE WHITE, G:PEARLY GRAY, R:CANDY APPLE RED				
POWER SUPPLY	Y	AC 120 V, 60 Hz				
PRODUCT WEIGH	IT	192 lbs (87kg)				
	WASHING	280 W				
ELECTRIC POWER CONSUMTION	DRAIN MOTOR	80 W				
CONSOMITION	WASH HEATER	1000 W				
REVOLUTION SPEED	WASH	46 rpm				
	SPIN	0-1200 rpm				
CYCLES		9				
WASH/RINSE TEMPER	RATURES	5				
SPIN SPEEDS		4				
OPTIONS		Prewash, Rinse+Spin, Extra Rinse, Water Plus, Stain Cycle				
WATER CIRCULAT	ION	_				
OPERATIONAL WAT	ER PRESSURE	14.5-116 psi (100-800 kPa)				
CONTROL TYPE		Electronic				
WASH CAPACITY [c	:u.ft]	3.63 (4.2 IEC)				
DIMENSIONS		27" (W) X 29 3 / $_{4}$ " (D) X 38 11 / $_{16}$ " (H), 50 13 / $_{16}$ " (D, door open)				
DELAY WASH		up to 19 hours				
DOOR SWITCH TY	PE	PTC + Solenoid				
WATER LEVEL		10 steps (by sensor)				
LAUNDRY LOAD SEN	ISING	Incorporated				
ERROR DIAGNOS	ils	Incorporated				
AUTO POWER OF	F	Incorporated				
CHILD LOCK		Incorporated				
RLM ENABLE		_				
STEAM		_				

2. FEATURES & TECHNICAL EXPLANATION

2-1. FEATURES



Ultra Capacity

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



Direct Drive System

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



Tilted Drum and Extra Large Door Opening

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



RollerJets

Washing ball enhances the wash performance and reduces damage

to the 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

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

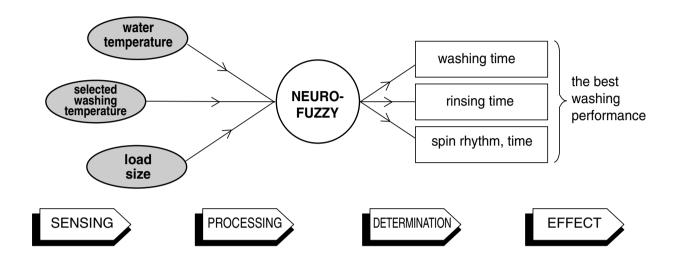


Child Lock

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

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 intertial rotating, through the operation is paused.

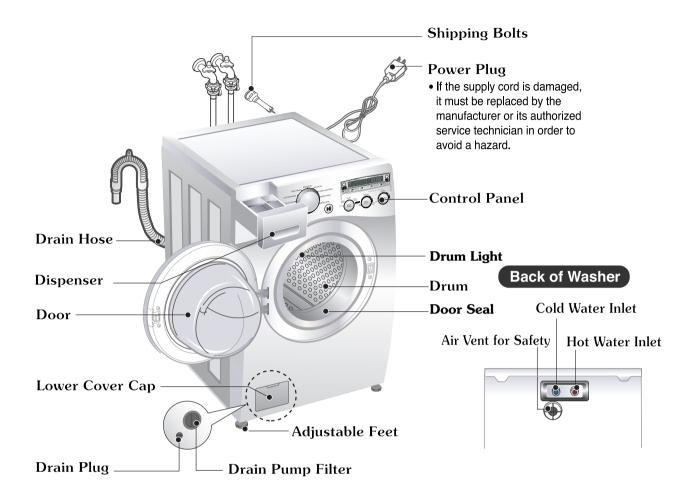
2-6. DOOR LOCKED LAMP LIGHTS

- 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)

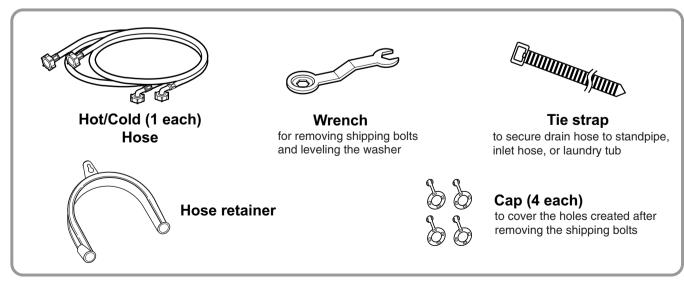
2-7. CHILD LOCK

- 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 controls of the wash while washing.

3. PARTS IDENTIFICATION

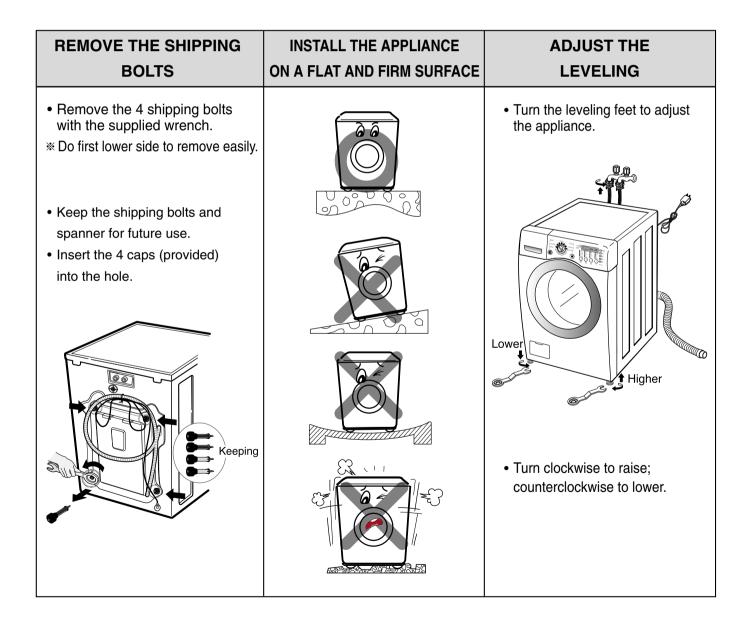


ACCESSORIES



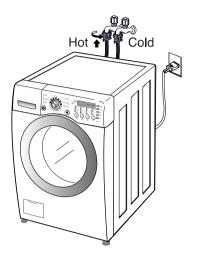
4. INSTALLATION & TEST

- 1 Before servicing, ask the customer what the trouble is.
- 2 Check the setup (power supply is 120V, remove the transit bolts, level the washer...)
- 3 Check with the troubleshooting guide.
- [4] Plan your service method by referring to the disassembly instructions.
- 5 Service the unit.
- 6 After servicing, operate the appliance to see whether it functions correctly.
- STANDARD INSTALLATION The appliance should be installed as follows:

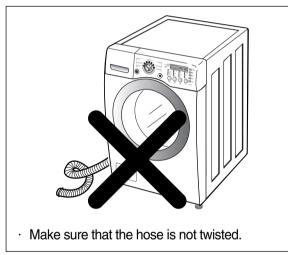


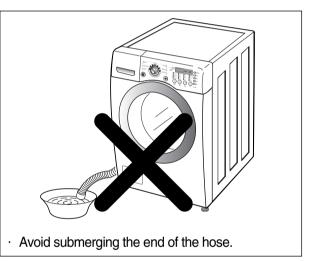
■ HOW TO CONNECT THE INLET HOSE

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



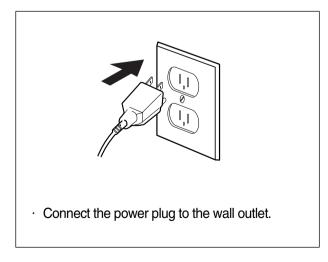
■ CONNECT THE DRAIN HOSE

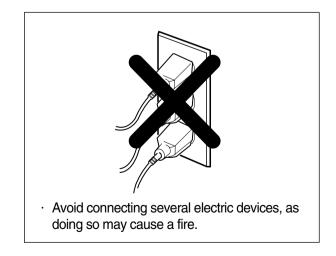




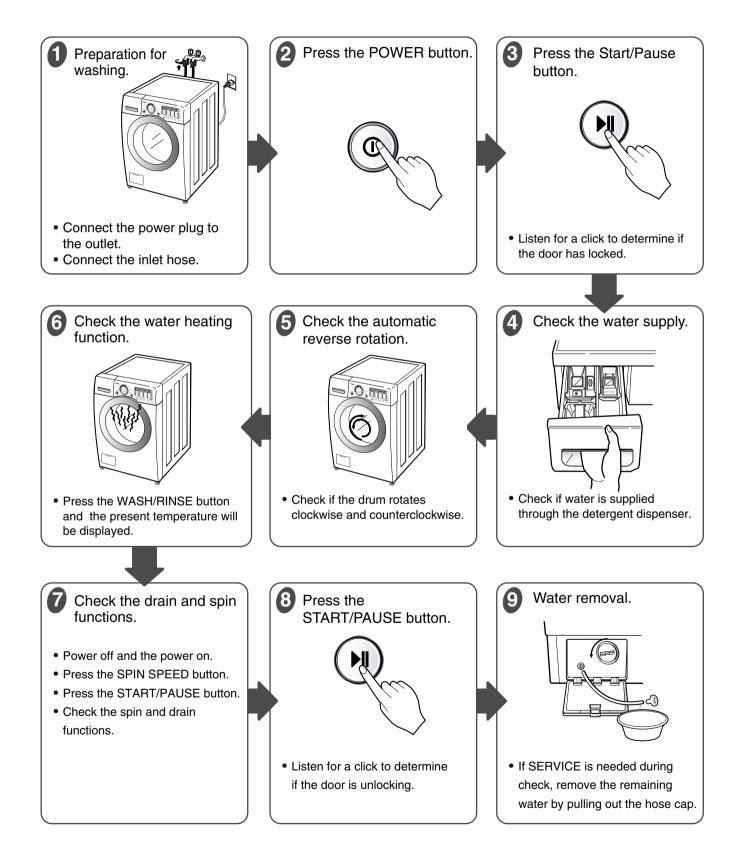
% The end of the drain hose should be placed less than 96" from the floor.

■ CONNECT POWER PLUG





7TEST OPERATION

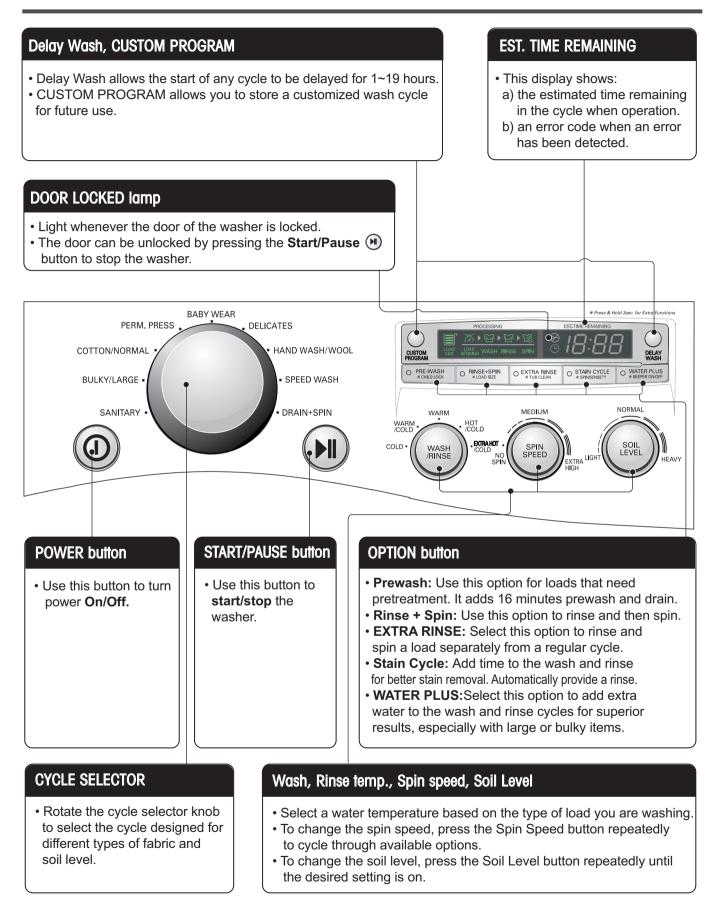


5. OPERATION

5-1. CONTROL PANEL FEATURES

WM2455H* / WM2301H*





5-2. CYCLE GUIDE

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

Cycle	Fabric type	Wash/Rinse Temp.	Spin Speed	Soil Level	Pre- Wash	Rinse + Spin	Extra Rinse	Stain Cycle	Water Plus
Sanitary	Sanitary Heavily soiled underwear, work clothes, diapers, etc.		High(==) Extra High (≡≡) No Spin (*) Low () Medium (—)	Normal Heavy Light	0	0	0	0	0
Bulky/Large	Large items such as blankets and comforters	Warm/Cold Warm/Warm Hot/Cold Cold/Cold	Low () Medium () No Spin (*)	Normal Heavy Light	0	0	0	0	0
Cotton/ Normal	Cotton/ Cotton, linen, towels, Warm/C		High (==) Extra High (≡≡) No Spin (*) Low () Medium (—)	Normal Heavy Light O		0	0	0	0
Perm. Press	Dress shirts/pants, wrinkle free clothing, poly/cotton blend clothing, tablecloths	Warm/Cold Warm/Warm Hot/Cold Cold/Cold	Medium () High (==) No Spin (*) Low ()	Normal Heavy Light	0	0	0	0	0
Baby Wear	Lightly soiled baby wear	Extra Hot/Cold Hot/Cold	High (==) Extra High (≡≡) No Spin (*) Low () Medium (—)	Normal Light		0	0		0
Delicates	Dress shirts/blouses nylons, sheer or lacy garments	Cold/Cold Warm/Cold Warm/Warm	Warm/Cold No Spin (*)		0	0	0		0
Hand Wash/ Wool	Items labeled "hand washable"	Cold/Cold Warm/Cold Warm/Warm	Low () Medium (—) No Spin (*)	Normal Light		0	0		0
Speed Wash	Lightly soiled clothing and small loads	Hot/Cold Cold/Cold Warm/Cold Warm/Warm	Extra High (≡≡) No Spin (*) Low () Medium (—) High (==)	Light Normal Heavy		0	0		0
Drin + Spin	Drain, Spin Only		High(==) Extra High (≡≡) No Spin (*) Low () Medium (—)						

NOTE: To protect your garments, not every wash/rinse temperature, spin speed, soil level, or option is available with every cycle.

5-3. SPECIAL FUNCTIONS

The option buttons also activate special functions, including CHILD LOCK, LOAD SIZE, TUB CLEAN, and SPIN SENSE. Press and hold the option button marked with the special function for 3 seconds to activate.

CHILD LOCK



Use this option to prevent unwanted use of the washer or to keep cycle settings from being changed while the washer is operating. Press and hold the PREWASH button for 3 seconds to activate or deactivate CHILD LOCK. CHILD LOCK will be shown in the display, and all controls are disabled except the ON/OFF button. The washer can be locked during a cycle.

LOAD SIZE



At the beginning of the cycle, the washer tumbles the load and detects the weight of the clothes.

The display will indicate the approximate load size in the LOAD SIZE display. This allows you to Adjust the amount of detergent and other additives for best results and improved efficiency.

TUB CLEAN



A buildup of detergent residue can occur in the wash tub over time and can lead to a mildew or musty smell. The TUB CLEAN cycle is specially designed to remove this buildup. Press and hold the EXTRA RINSE button for 3 seconds to activate this cycle. The display will show a message to add liquid bleach to the dispenser. After the cycle has ended, open the door and allow the drum interior to dry completely.

NOTE: Do NOT use this cycle with clothes, and do NOT add detergent or fabric softener.

SPIN SENSE



To activate SPINSENSE :

While the washing machine is runnung in any cycle, press and hold the STAIN CYCLE button for 3 seconds. The SPIN SPEED button light will blink while the washer is running to show that SPINSENSE is active. The SPINSENSE function will remain active for every cycle, even after a power failure.

To cancel SPINSENSE :

Press and hold the STAIN CYCLE button for 3 seconds to turn off the SPINSENSE function

BEEPER ON/OFF



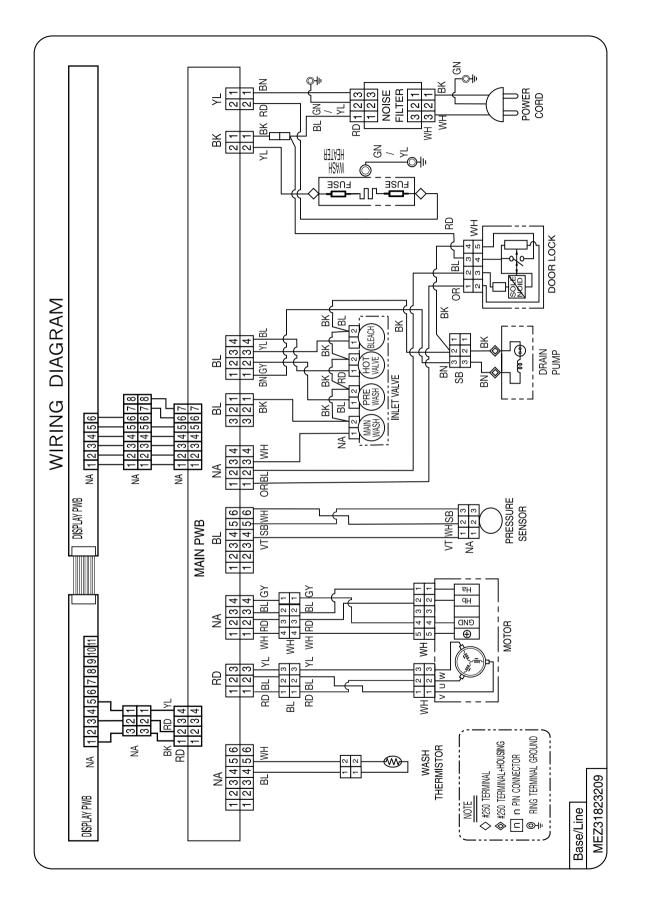
You may turn the end-of-cycle beeper on or off with the WATER PLUS button during the cycle. Press and hold the WATER PLUS button for 3 seconds to turn the beeper off. Press and hold the WATER PLUS button again for 3 seconds to turn the beeper back on.

5-4. EXPLANATION OF EACH PROCESS

No.	Process	Explanation						
1.	Stay	 Electrical power is supplied Washer is ready to work and the micom is in the active mode. 						
2.	Water supply	 After loading laundry and selecting a course and a cycle, water is supplied and drum rotates. When a user selects Pre-wash course, water is supplied through pre wash valve. 						
3.	Soaking & washing laundry	 To get laundry wet, drum rotates clockwise and counterclockwise. If water amount is insufficient at this time, the Inlet valve will supply water again. 						
4.	Heating & washing	• The heater heats the water in drum to the selected water temperature and drum rotates for washing.						
5. ~ 6.	Washing & heating / washing	 When the water temperature reaches to the selected temperature, the heating stops and only the drum rotates. If water temperature becomes lower than selected because of re-supplied water, the heating starts again. 						
7.	Washing	 Fuzzy Logic decides washing time according to the laundry load, water temperature, and other factors. 						
8.	Drainage	 A pump motor drains the water from the drum. After sensing drained water amount by water level frequency, spin starts. When a heating course is selected, stay cooling process is performed to decrease the water temperature gradually to prevent laundry from being damaged and for safety reasons. 						
9.	Untangling (Sensing eccent- ricity)	 It balances laundry load and senses the eccentricity of the load, to only allow spinning without vibration If the eccentricity is worse than the allowed level, it repeats the disentangling process. When the repeated time is more than allowed level, it displays UE. If the eccentricity is good, the intermittent spin starts. During this process, the drain pump works for drainage intermittently. 						

No.	Process	Explanation						
A.	Intermittent spin	 To reach the correct set speed, the motor rotates clockwise and counterclockwise directions after spin process starts. If the water level frequency is lower than 23.0 kHz, a washer senses suds and starts suds removal process. 						
В.	Rinse spin	 In this process, the remaining water during washing process is extracted and the selected speed is kept. Removing suds process is in active mode at this cycle. 						
C.	Remaining spin	 After spin finishes, the drum rotates by remaining spin power until it stops. Motor power is off. This process is overlapped with next process. 						
D.	Rinse water supply	Water supply for rinse process						
E.	Rinse	Rinsing process.						
F.	Last drainage	 After spin finishes and power is not supplied to motor, the drum rotates by remaining spin power If rinse hold is selected, the drainage is not proceeded after rinse finishes. 						
G.	Disentangling	• The same as item 9.						
Н.	Intermittent spin	• The same as item A.						
Ι.	Main spin1	• The same as item B.						
J.	Main spin2	• At the end of a main spin, the spin speed will reach the selected rpm.						
K.	Remaining spin	• The same with item C.						
L.	L. Disentangling • After spin finishes, disentangling starts to remove un laundry.							
М.	End	 After 'end' signal is displayed, it stays for 8 seconds and power is automatically turned off. (Auto type door switch) After door switch is off, end signal is displayed in the case of manual type and it takes around 2 minute to turn off door switch. 						

6. WIRING DIAGRAM/PROGRAM CHART



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PROGRAM CHART			2		-	E Time	Sanitary	Cotton	/Normal	Bulky /Large	Perm Press	Delicates	Baby Wear	Hand Wash /Wool	Speed Wash	Drain+Spin	Wash + Rinse	Rinse + Spin	Pre-Setting Time : Water Supply - 60 sec.									

7-1. SAFETY CAUTION

- There's built-in AC 120V and DC power in output terminal of PWB assembly in common. Be careful electric shock when disconnecting parts while trouble shooting. (Wear Electro Static Discharge gloves when working.)
- After cutting off the power when changing PWB assembly, disconnect or assemble.
- Be careful static when handling PWB assembly, and use Electro Static Discharge plastic pack when delivering or keeping it.

7-2. LOAD TEST MODE

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

- 1. Press the WASH/RINSE and SPIN SPEED 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.				
1 time	Tumble clockwise.	rpm (42~50)			
2 times	Low speed Spin.	rpm (55~65)			
3 times	High speed Spin.	rpm (105~115)			
4 times	Inlet valve for prewash turns on.	Water level frequency (225~265)			
5 times	Inlet valve for main wash turns on.	Water level frequency (225~265)			
6 times	Inlet valve for hot water turns on.	Water level frequency (225~265)			
7 times	Inlet valve for bleach turns on.	Water level frequency (225~265)			
8 times	Tumble counterclockwise.	rpm (42~50)			
9 times	Water Temperature (Thermistor)	Water temperature [°C]			
10 times	Drain pump turns on.	Water level frequency (225~265)			
11 times	Off				

7-3. HOW TO CHECK THE WATER LEVEL FREQUENCY

* Press the **CUSTOM** and **PRE-WASH** buttons simultaneously.

The digits indicate the water level frequency.

For example, if the display indicate 41, the water level frequency is 20+(41X0.1) = 24.1 kHz.

8-1. SAFETY CAUTION

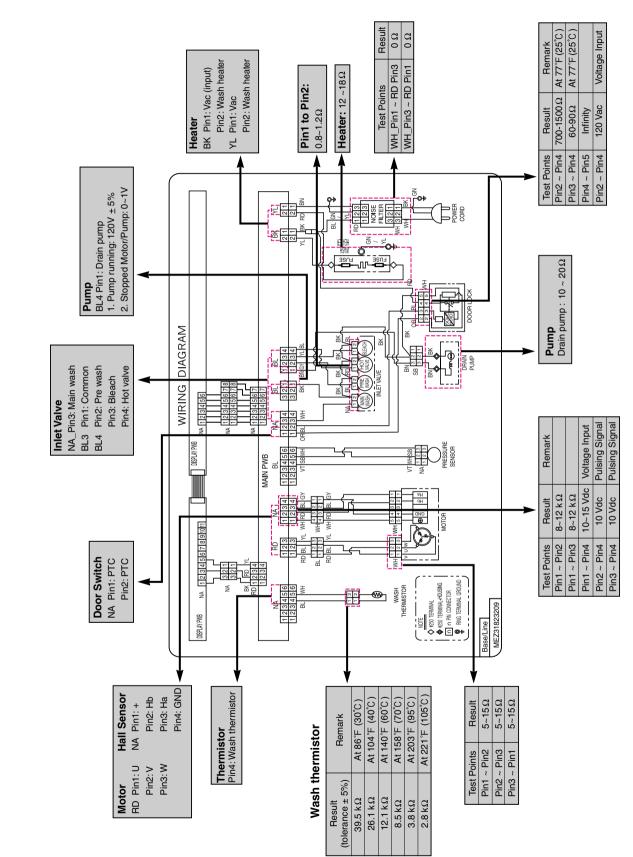
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- After cutting off the power when changing PWB assembly, disconnect or assemble.
- Be careful static when handling PWB assembly, and use Electro Static Discharge plastic pack when delivering or keeping it.

8-2.ERROR MODE SUMMERY

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

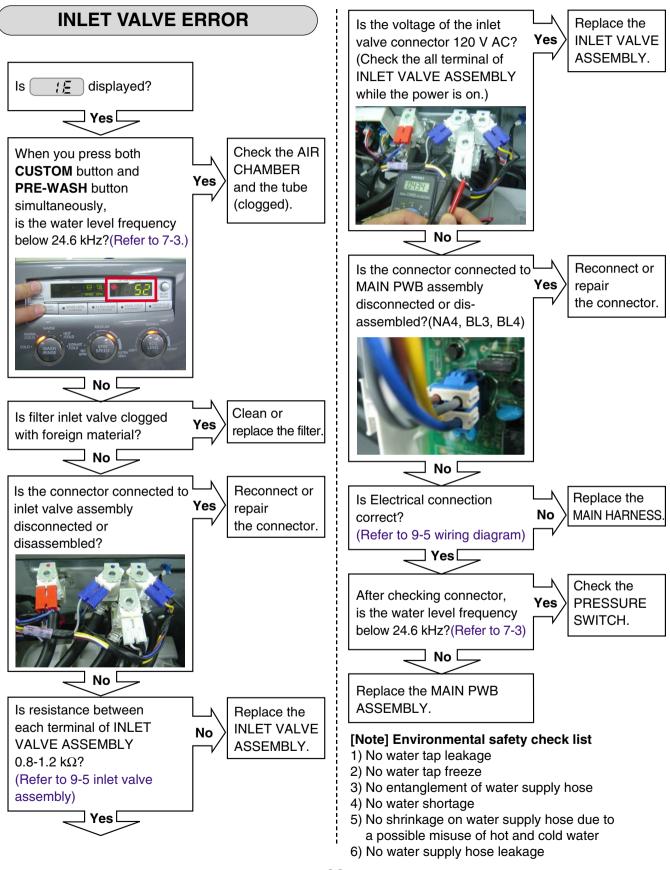
	ERROR	SYMPTOM	CAUSE
1	WATER INLET ERROR	:5	 Correct water level (246) is not reached within 8 minutes after water is supplied or it does not reach the preset water level within 25 minutes.
2	IMBALANCE ERROR		 The load is too small. The appliance is tilted. Laundry is gathered to one side. Non distributable 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 FE is displayed, the drain pump will operate to drain the water automatically.
5	PRESSURE SENEOR ERROR	, ;= , ;=	The SENSOR SWITCH ASSEMBLY is out of order.
6	DOOR OPEN ERROR	e E	 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	LOCKED MOTOR ERROR	ĽE	 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.
9	EEPROM ERROR	EE	 EEPROM is out of order. * Displayed only when the START/PAUSE button is first pressed in the Load Test Mode.
10	POWER FAILURE	, ;; ;;	 After the power supply is stopped while washing machine is working, the power is supplied rapidly

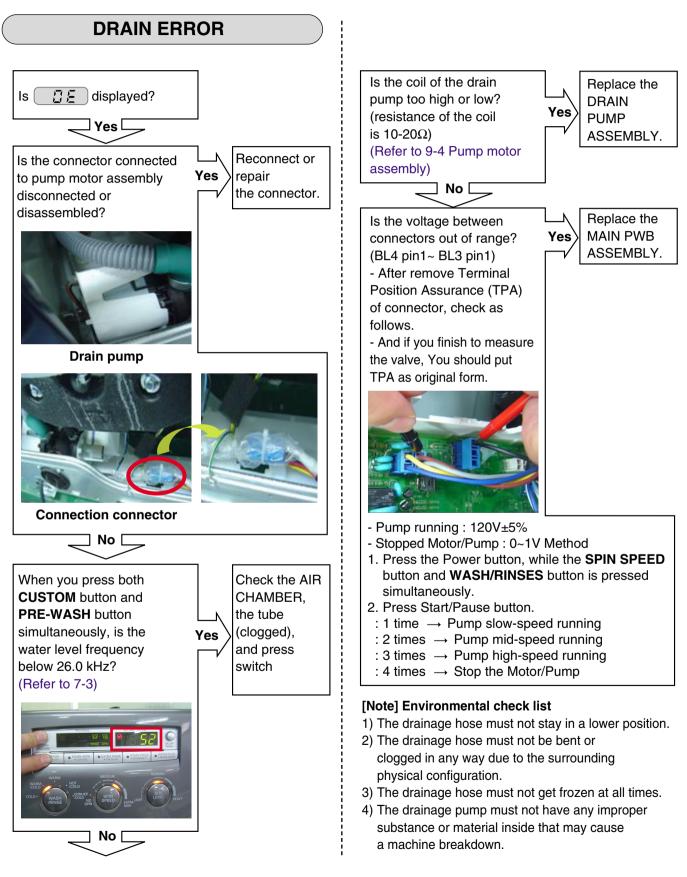


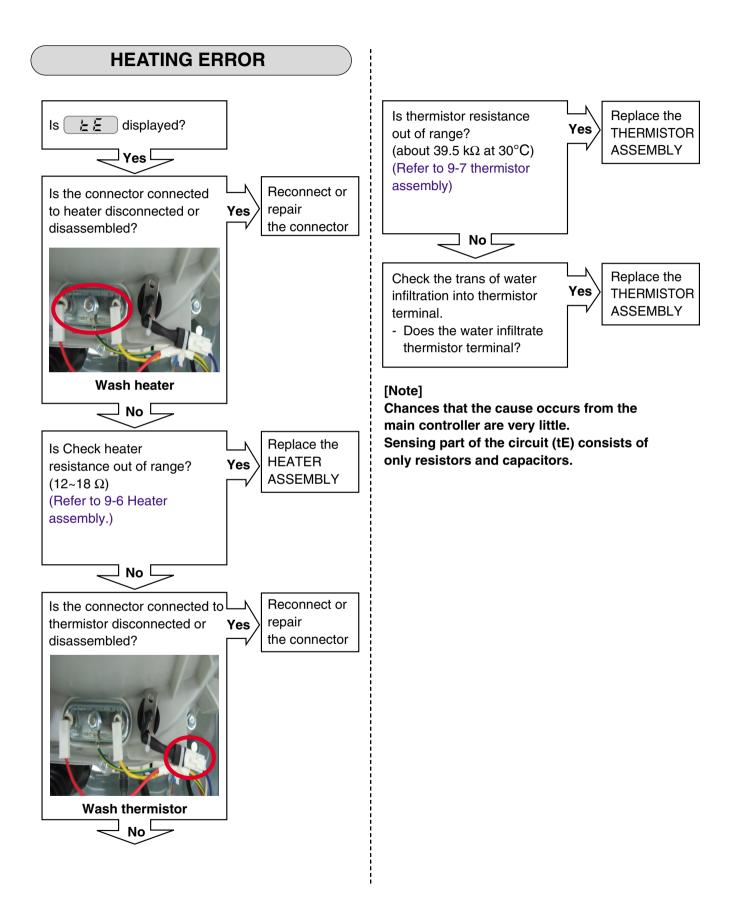
8-3. TROUBLESHOOTING SUMMARY

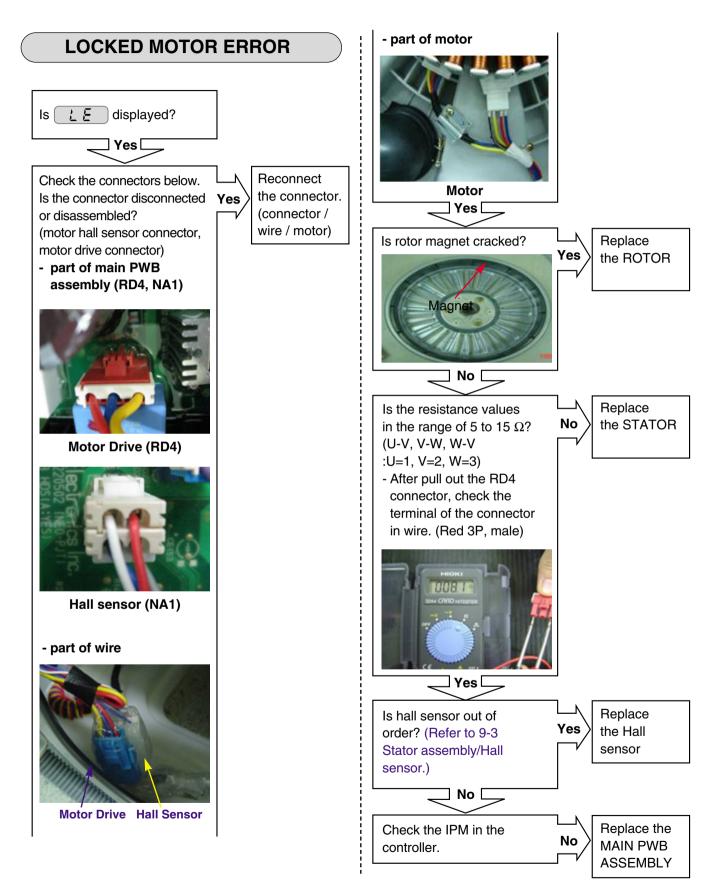
8-4. TROUBLESHOOTING WITH ERROR

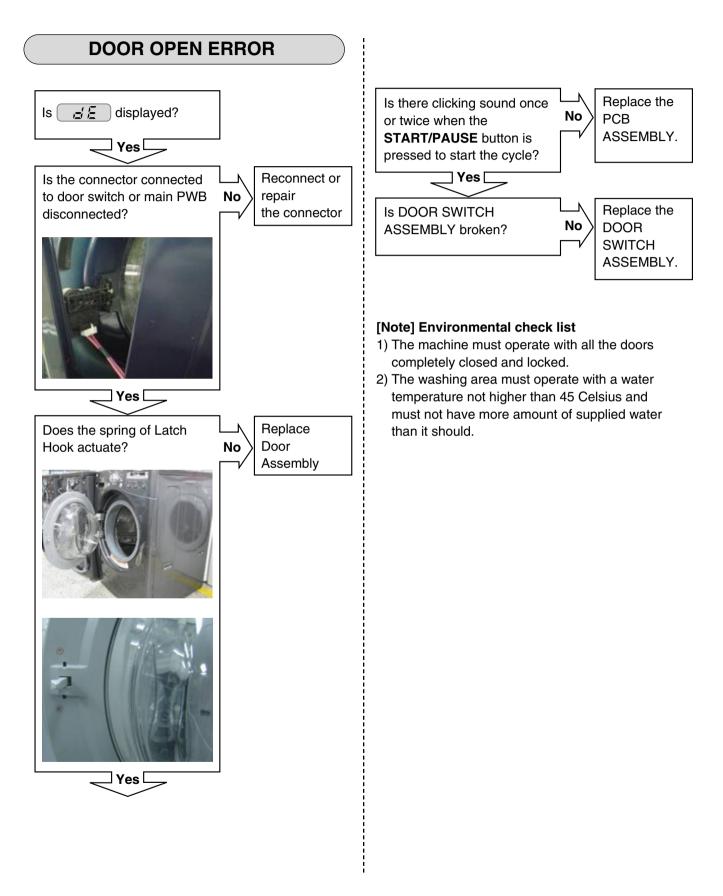


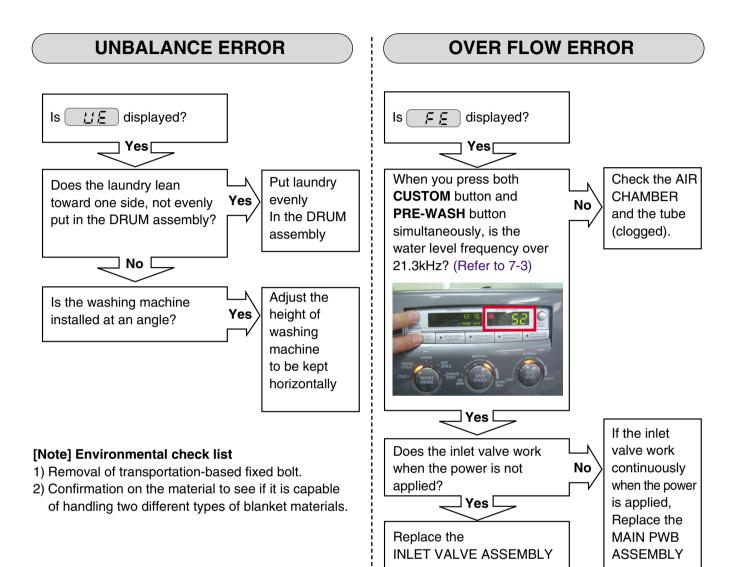
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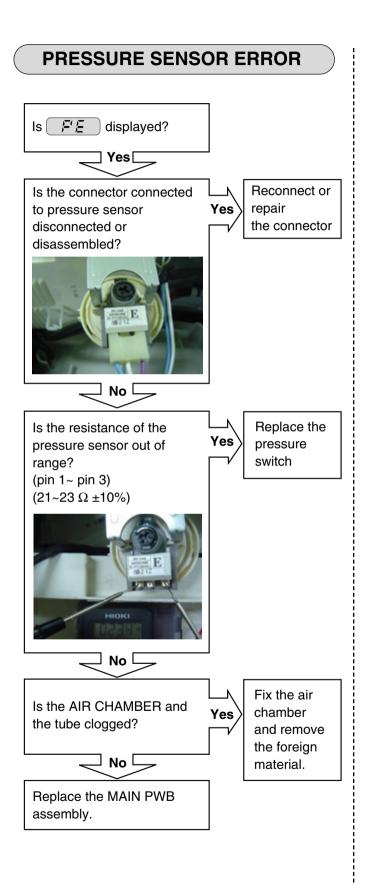








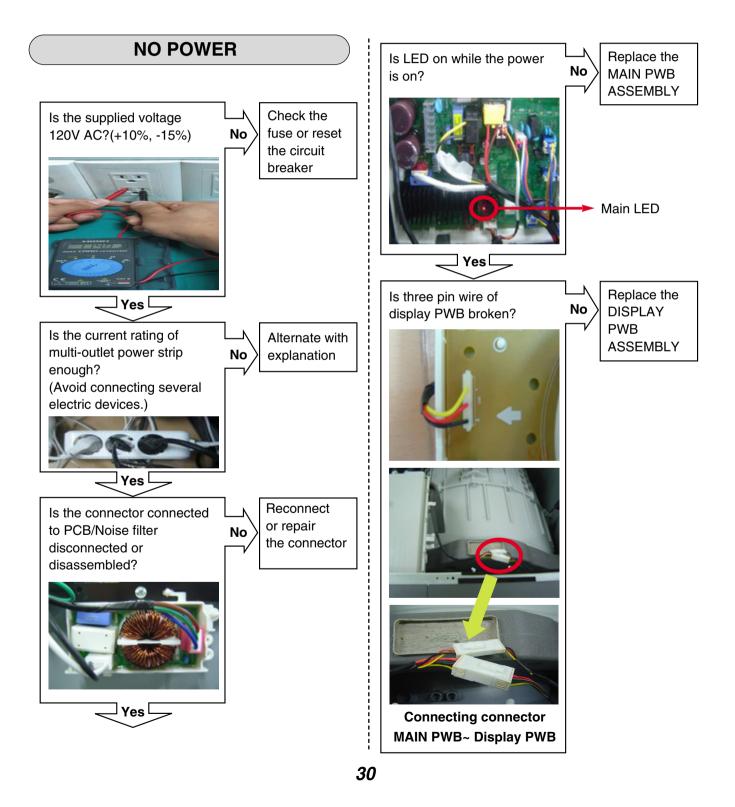


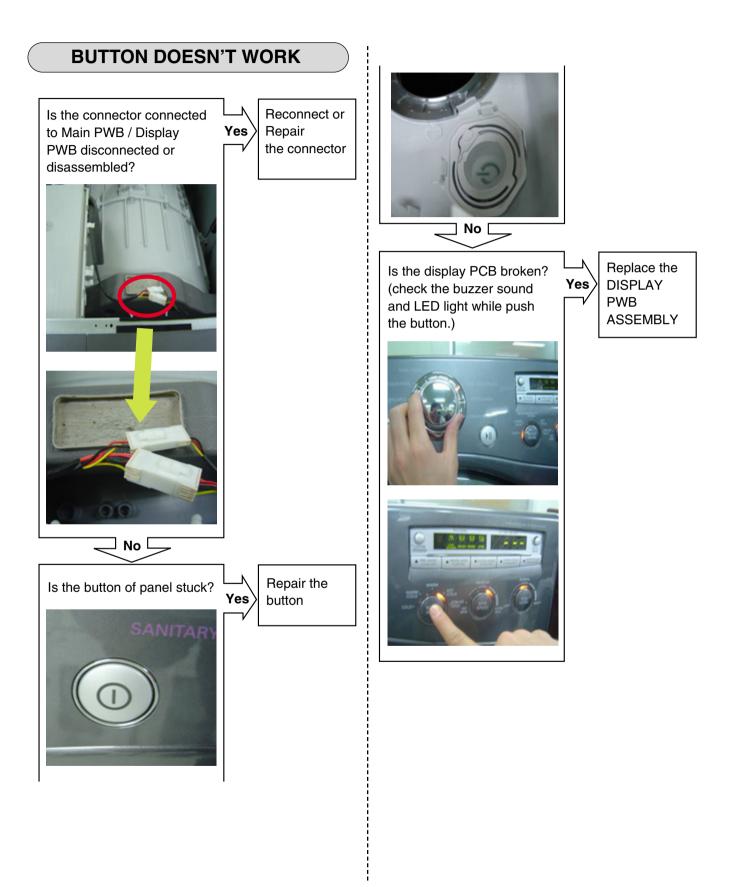


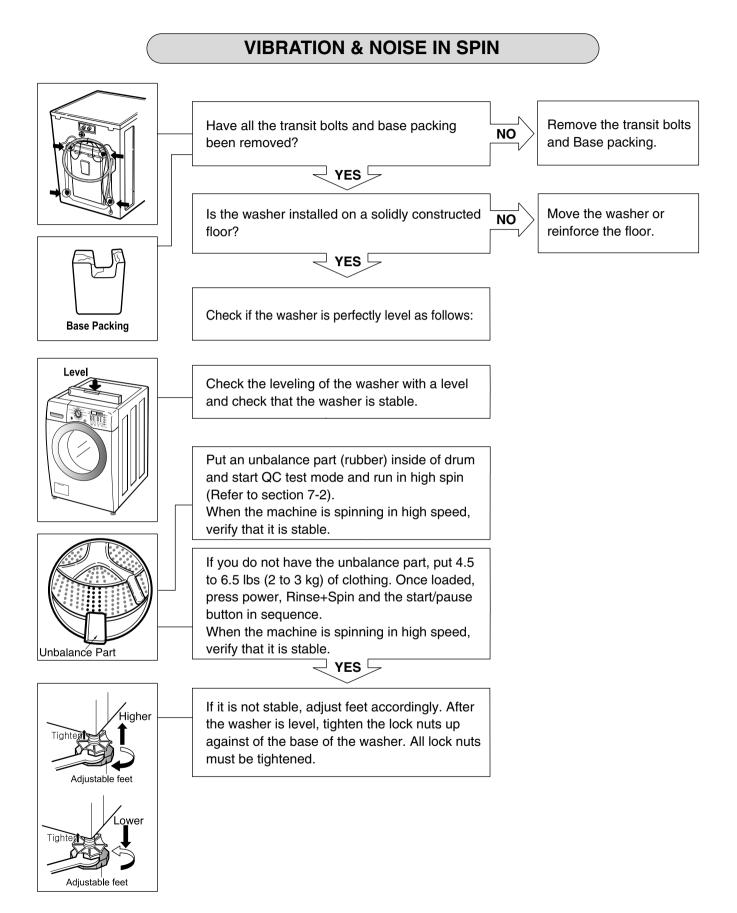
8-5. TROUBLESHOOTING ELSE

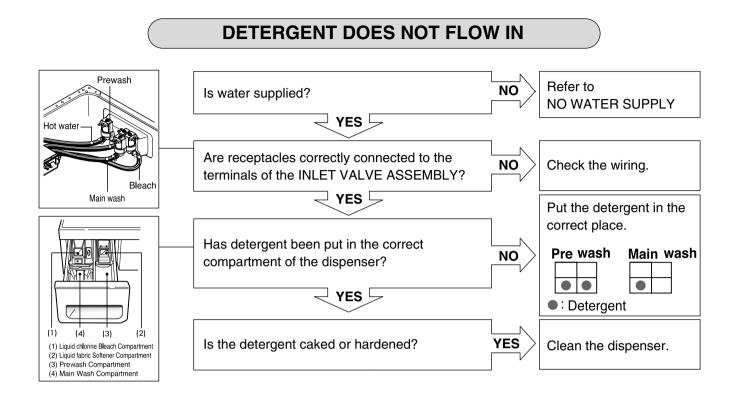
ACAUTION

- 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.

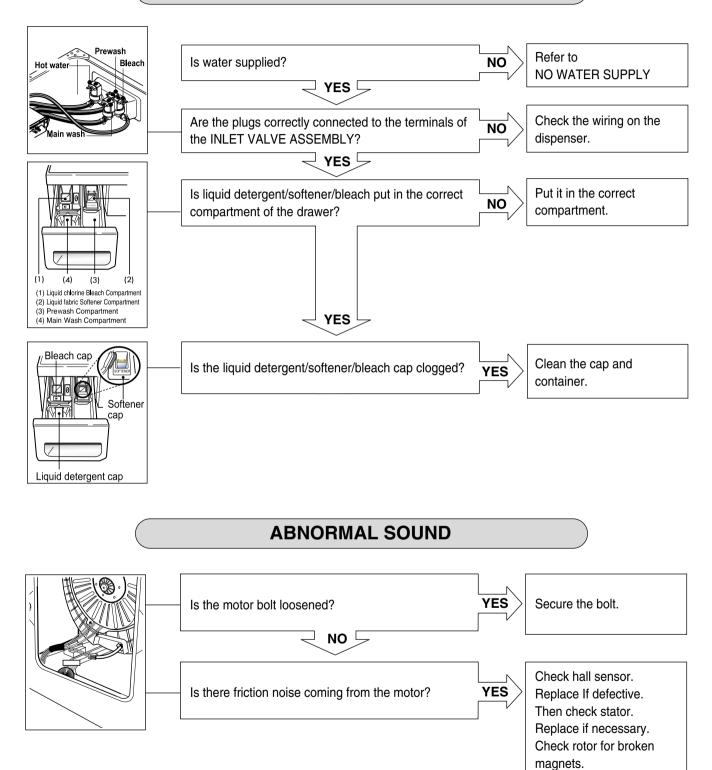








LIQUID DETERGENT/SOFTENER/BLEACH DOES NOT FLOW IN

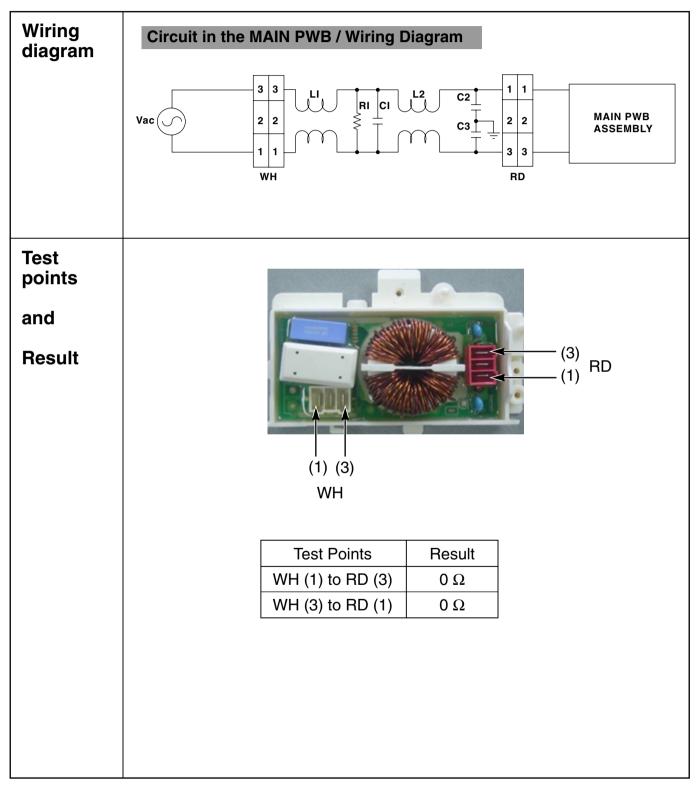


Replace rotor if necessary.

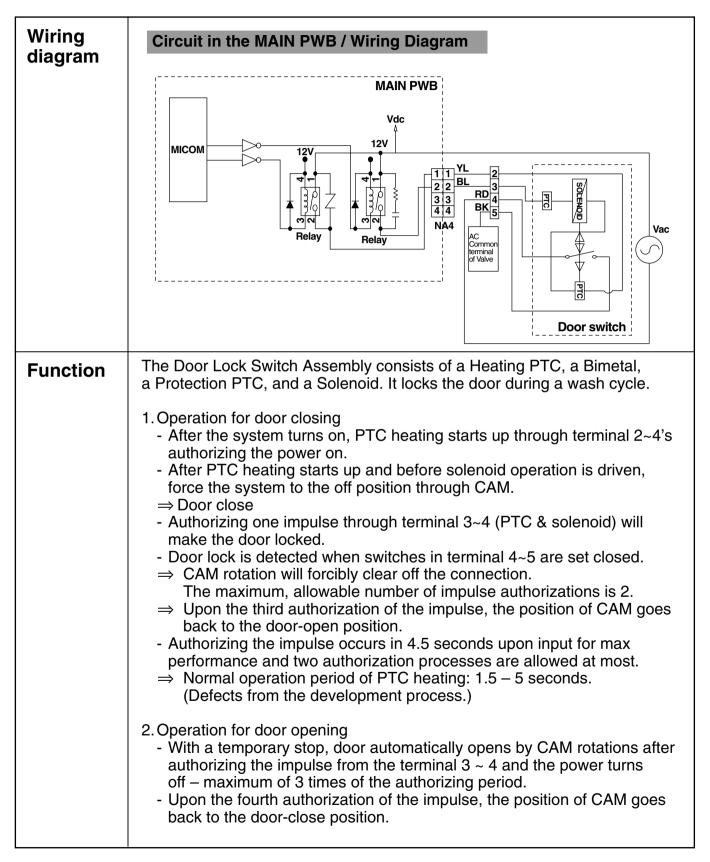
9. COMPONENT TESTING INFORMATION

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

9-1. FILTER ASSEMBLY (LINE FILTER)

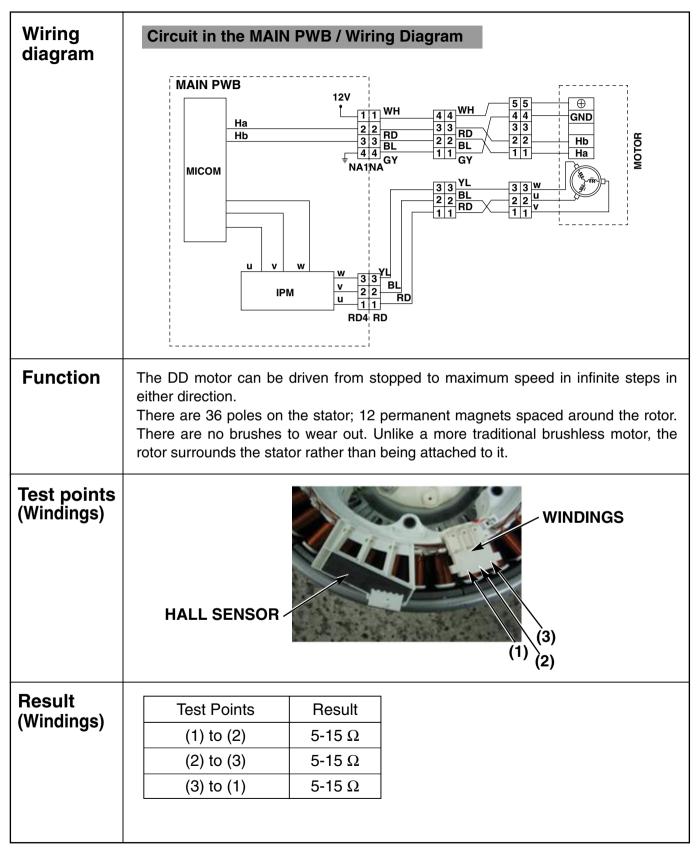


9-2. DOOR LOCK SWITCH ASSEMBLY



Test points				
Result	Test Points	Result	Remarks]
	(2) to (4)	700-1500 Ω	At 77°F (25°C)	4
	(3) to (4)	60-90 Ω	At 77°F (25°C)	
	(4) to (5)	Infinity		1
	(2) to (4)	120 Vac	Voltage Input]

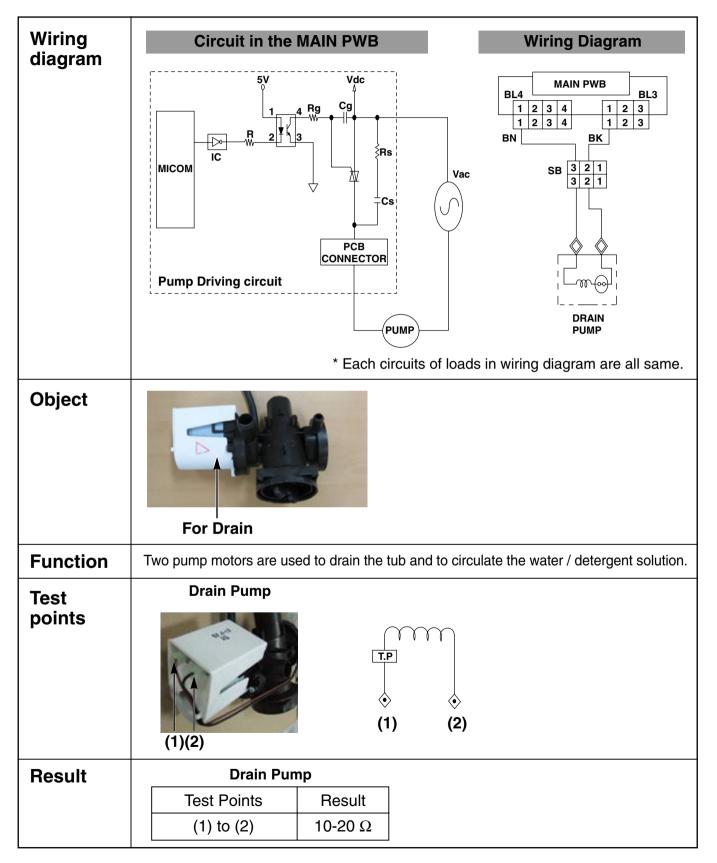
9-3. STATOR ASSEMBLY



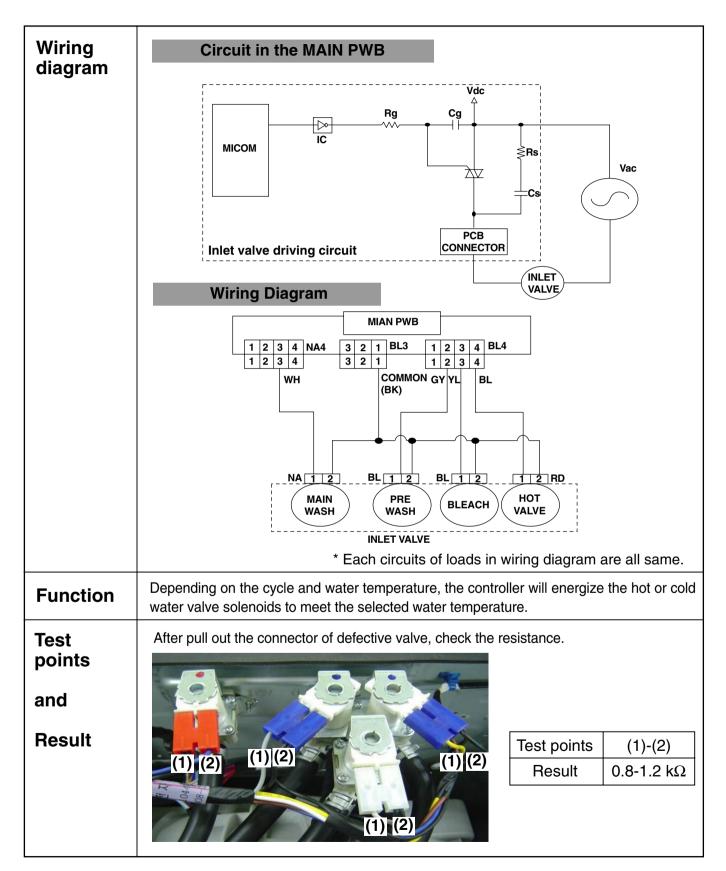


	 To measure output signal voltage from the hall sensor, carefully move test leads to terminals 1 to 4, blue and gray. Slowly rotate motor rotor by hand. You should read a pulsing 10 Vdc. If 10 Vdc is measured from 1 to 4, move lead on blue wire to red wire, terminal 2. Repeat rotating motor rotor by hand. You should read a pulsing 10 Vdc from red to gray. If pulsing 10 Vdc is measured from 1 to 4 and 2 to 4, hall sensor is OK! If either test netted only 9 to 10 Vdc without changing (no pulsing) the hall sensor is likely defective. Disconnect power by unplugging washer and ohm check hall sensor to verify failure of the hall sensor. 				
Test Point	- Voltage Testing Hall Sensor from the Main PCB Assembly				
and	(1) (2)				
and					
Result (Hall Sensor)					
	1. Unplug power cord. (3) (4)				
	 Remove rear panel. Remove Washer Top. 				
	 Remove Main PCB Assembly cover as shown in Figure below. Locate the white Hall Sensor 4 wire connector using wiring diagram wire colors 				
	as your guide.				
	Plug in power cord, close door, and press power button. DO NOT PRESS START!				
	7. Place meter leads on White & Gray wires. You should read 10 to 15 Vdc output from the Main PCB Assembly to the Hall sensor. If no 10 to 15 Vdc is				
	measured the control board is defective. 8. Place meters leads on Blue to Gray. Turn motor rotor slowly by hand. You				
	should measure a pulsing 10 Vdc. Place meter leads on Red to Gray. Turn				
	motor rotor slowly by hand. You should measure a pulsing 10 Vdc. If both tests measure a pulsing 10 Vdc, hall sensor and harness OK. If either or both tests				
	measures 9 to 10 volts, but does not pulse or change, Hall sensor has failed and must be replaced. IF zero (0) voltage is measured on either test, check red				
	& blue wires for continuity. Repair or replace harness as needed.				
	Test Points Result Remarks				
	(1) to (2) 8-12 kΩ				
	(1) to (3) 8-12 kΩ				
	(1) to (4) 10-15 Vdc Voltage Input				
	(2) to (4) 10 Vdc Pulsing Signal				
	(3) to (4) 10 Vdc Pulsing Signal				

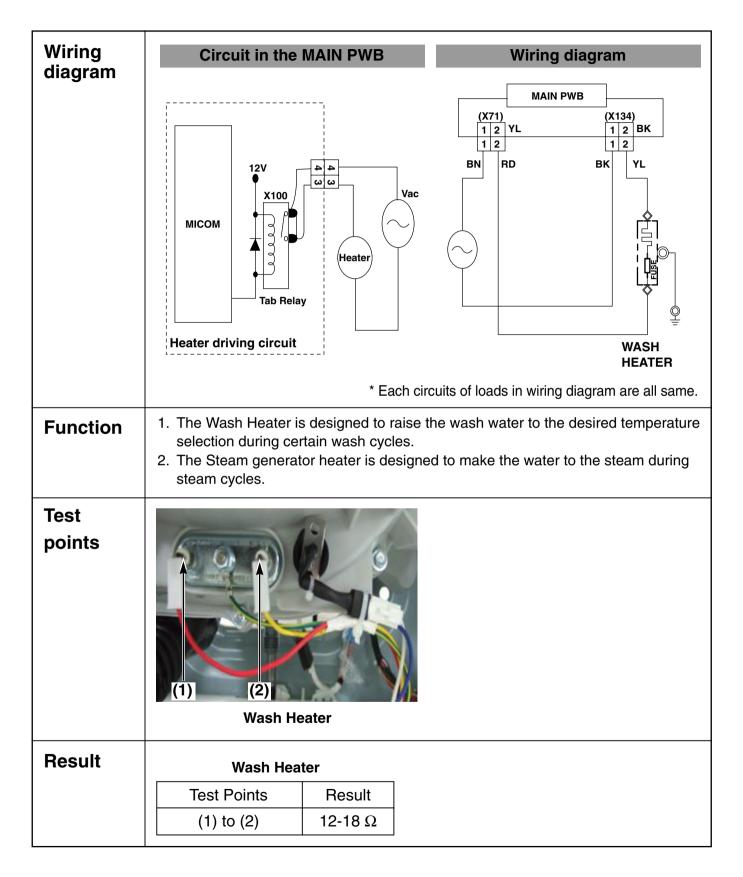
9-4. PUMP MOTOR ASSEMBLY



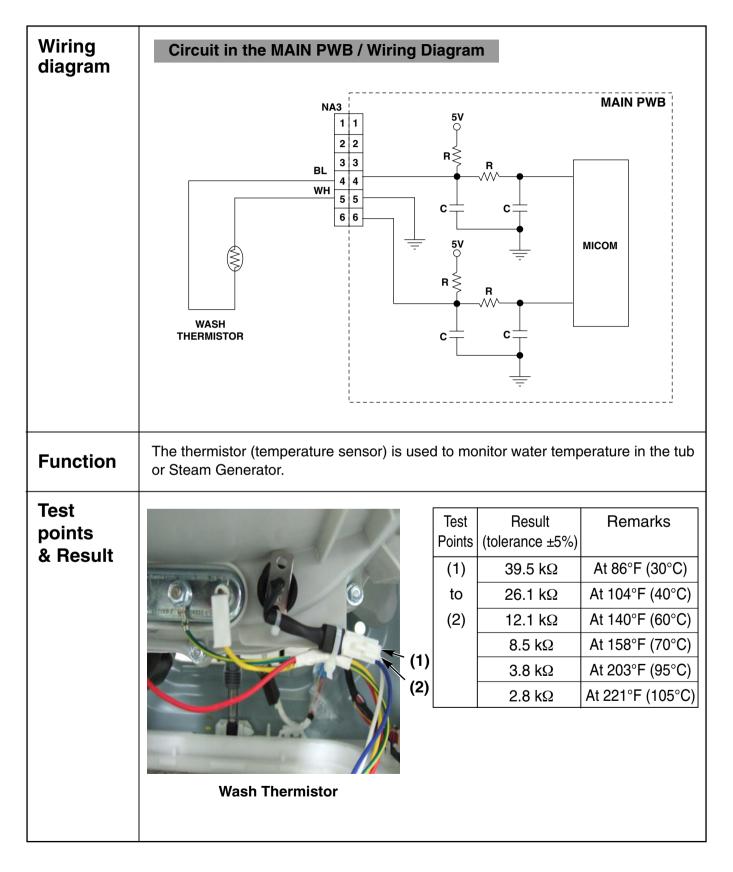
9-5. INLET VALVE ASSEMBLY



9-6. HEATER ASSEMBLY



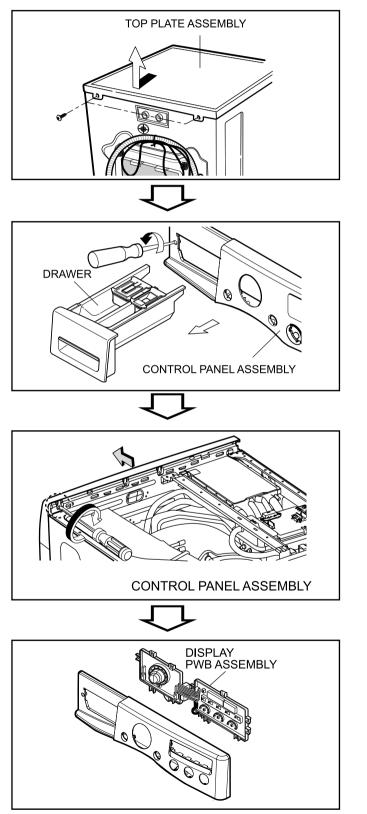
9-7. THERMISTOR ASSEMBLY



10. DISASSEMBLY INSTRUCTIONS

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

CONTROL PANEL ASSEMBLY



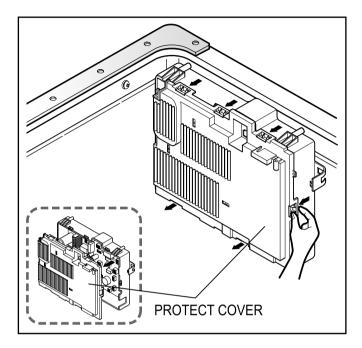
① Unscrew 2 screws on the back of the top plate.② Pull the top plate backward and upward as shown.

- ③ Disconnect the Display PWB assembly connector from trans cable.
- ④ Pull out the drawer and unscrew 2 screws.

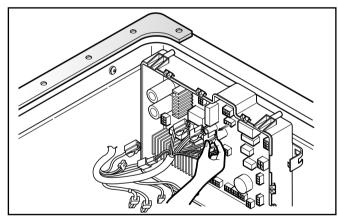
- ⑤ Remove one screw.
- ⑥ Lift the side the control panel assembly and pull it out

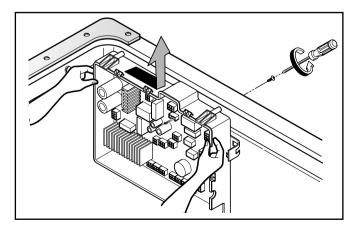
- ⑦ Unscrew the 8 screws from the control panel assembly.
- (8) Disassemble the Display PWB Assembly.

MAIN PWB ASSEMBLY



- Disconnect the POWER connector and SENSOR SWITCH ASSEMBLY.
- ② Remove the Protective cover.

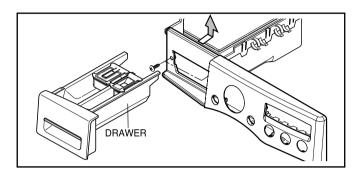


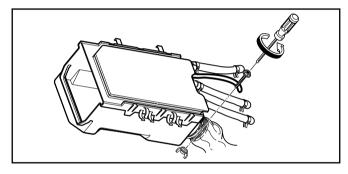


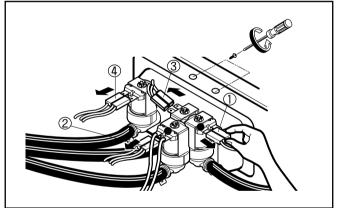
③ Disconnect the connectors.

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

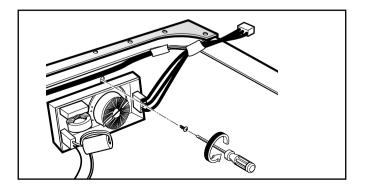
DISPENSER ASSEMBLY





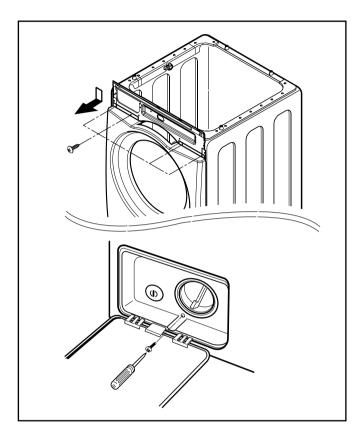


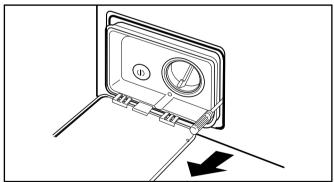
NOISE FILTER

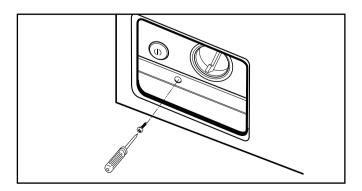


- 1 Disassemble the top plate assembly.
- 2 Pull out the drawer.
- ③ Push out the DISPENSER ASSEMBLY after unscrewing 2 screws.
- ④ Unscrew the Clamp nut at the lower part of the dispenser.
- ⑤ Disassemble the 4 connectors from the valves.
 - Wire ColorBlue Housing (YL-BK)
 - 2 White Housing (WH-BK)
 - ③ Blue Housing (GY-BK)
 - ④ Red Housing (BL-BK)
- 6 Unscrew 2 screws from the back of the cabinet.
- ① Disassemble two (or three) connectors from the NOISE FILTER.
- ② Unscrew a screw from the TOP BRACKET.

CABINET COVER



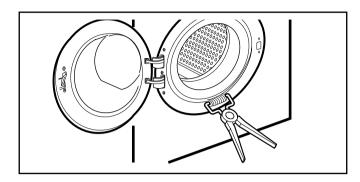


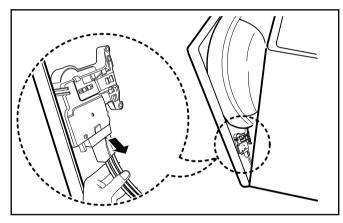


- ① Unscrew the 5 screws from upper of the canbinet cover.
- O Unscrew the screw from filter cover.

③ Put a flat (-) screwdriver or putty knife into the hinge slots at the bottom of the cover and pry it out.

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

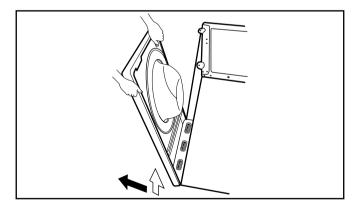




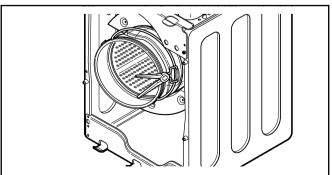
- (5) Open the door.
- 6 Disassemble the clamp assembly.

- O Tilt the cabinet cover.
- (8) Disconnect the door switch connector.

NOTE: When assembling the CABINET COVER, connect the door switch connector.

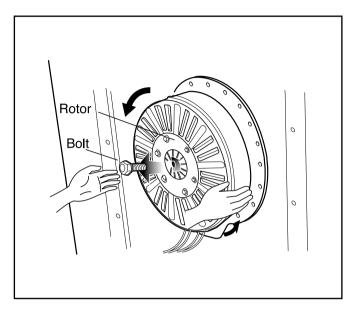


9 Lift and separate the cabinet cover.



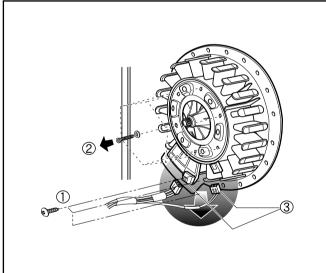
- 1 Disassemble the clamp assembly.
- 1 Disassemble the gasket.

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.



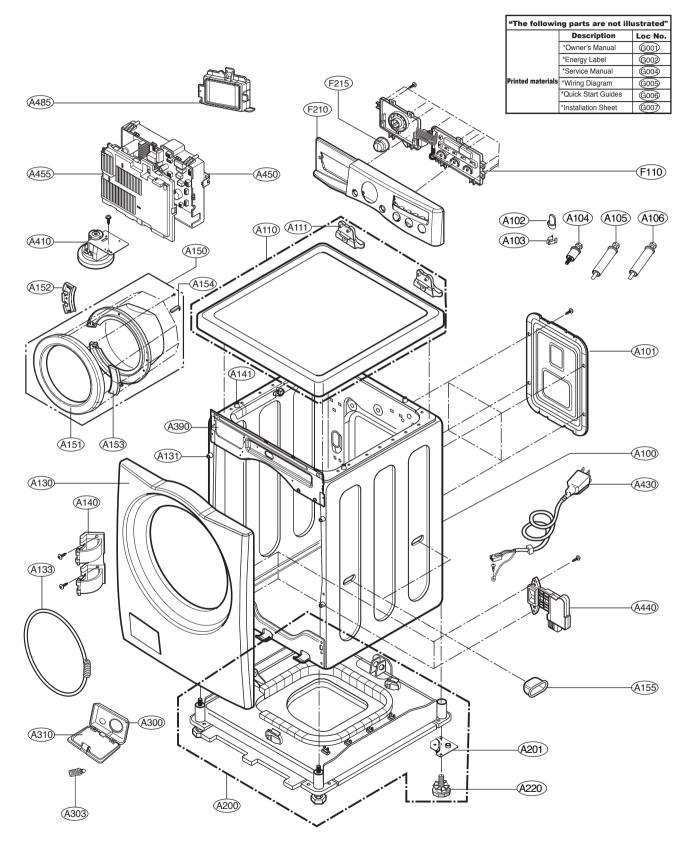
HINGE, DAMPER ① Disassemble the damper hinges from the tub and base.

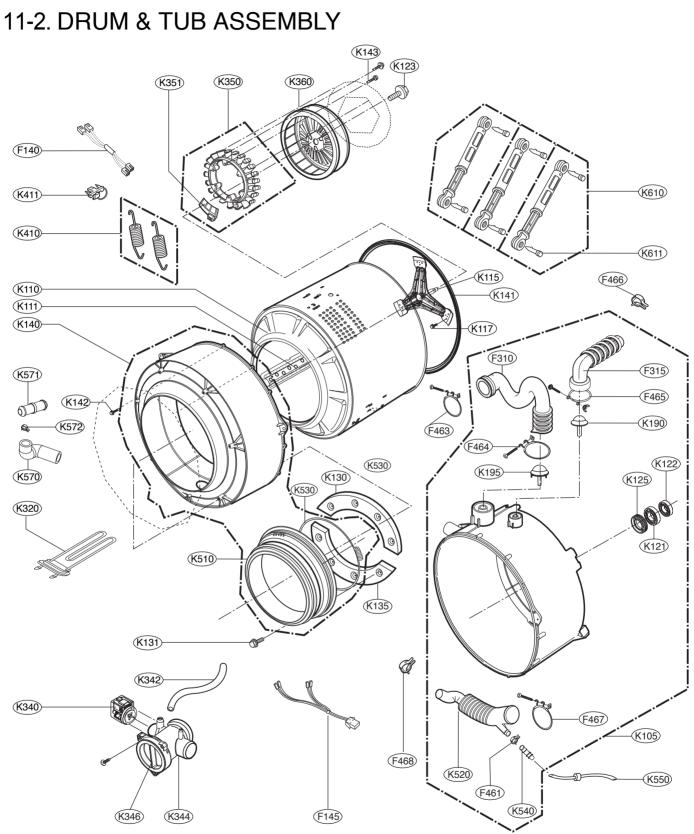
*** NOTE**

If you pull the dampers apart, the must be replaced. If you do not separate them, they can be re-used.

11. EXPLODED VIEW

11-1. CABINET & CONTROL PANEL ASSEMBLY





- In case of replacing THERMISTOR of HEATER ASSEMBLY(K320), replace HEATER ASSEMBLY(K320), HEATER ASSEMBLY(K320) includes THERMISTOR.
- * In case of replacing BEARING, BALL(K121, K122) and GASKET(K125), replace TUB ASSEMBLY, OUTER(K105),
- TUB ASSEMBLY, OUTER(K105) includes BEARING, BALL(K121, K122) and GASKET(K125).
- * Part Assembly(K142) includes 10 screws.

11-3. DISPENSER ASSEMBLY

