

WASHING MACHINE SERVICE MANUAL

A CAUTION

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

MODEL: 796.4044#9##



P/No.: MFL30599145

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1. SPECIFICATIONS

ITEM		4044#9##
COLOF	}	WHITE, PATINA BEIGE
POWER SU	PPLY	AC 120 V, 60 Hz
PRODUCT W	EIGHT	190.7 lbs (86.5kg)
ELECTRIC POWER	WASHING	280 W
CONSUMPTION :	DRAIN MOTOR	50 W
CONSOMETION	WASH HEATER	1000W
REVOLUTION	WASH	46 rpm
SPEED	SPIN	0-1150 rpm
CYCLE		10
WASH/RINSE TEMP	PERATURES	5
SPIN SPEE	DS	5
OPTION	S	STAIN TREAT, 2 nd RINSE, ADD STEAM DELAY START, CLEAN WASHER, CONTROL LOCK
OPERATIONAL WATER	R PRESSURE	14.5-116 psi (100-800 kPa)
CONTROL T	YPE	Electronic
WASH CAPACIT	「Y [cu.ft]	3.63 (4.2 IEC)
DIMENSIO	NS	27"(W) X 29/4"(D) X 38 ¹ / ¹⁶ "(H), 51/ ¹⁶ " (D, door open)
DELAY STA	ART	up to 19 hours
DOOR SWITCH	H TYPE	PTC + Solenoid
Door Fran	me	Chrome
WATER LE'	VEL	10 steps (by sensor)
LAUNDRY LOAD	SENSING	Incorporated
ERROR DIAG	NOSIS	Incorporated
AUTO POWE	R OFF	Incorporated
CONTROL L	OCK	Incorporated
DRY		Washer Only

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.

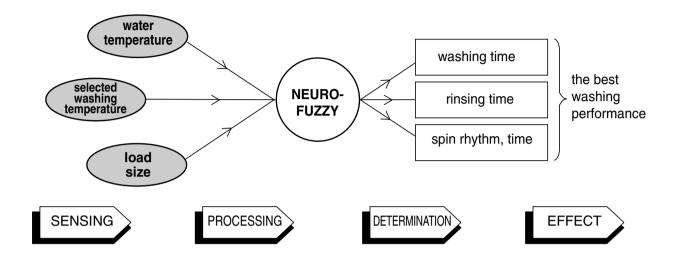


Control Lock

The Control 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.

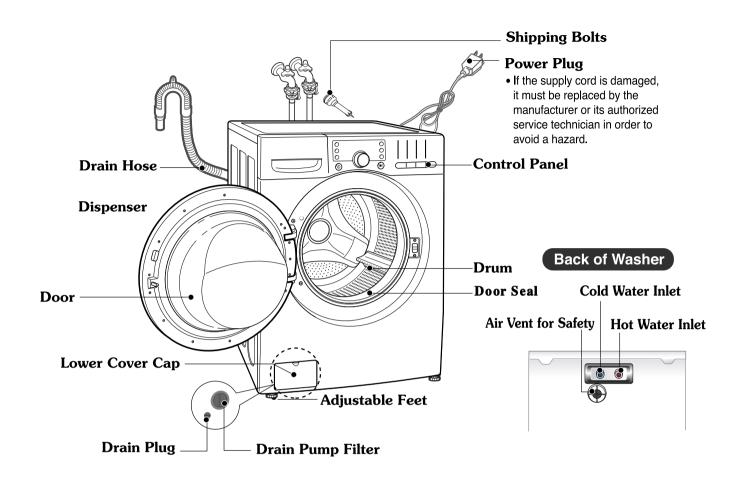
2-5. THE DOOR CAN NOT BE OPENED

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

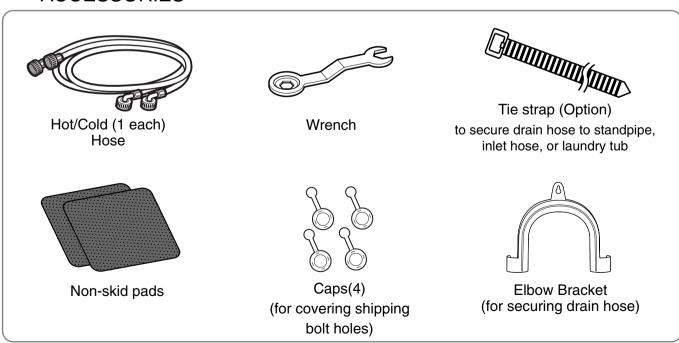
2-6. CONTROL LOCK

- Use this option to prevent unwanted use of the washer. Press and hold Control Lock button for 5 seconds to lock/unlock control.
- When CONTROL LOCK is set, CONTROL LOCK lights and all buttons are disabled.
 You can lock the controls of the washer while washing.

3. PARTS IDENTIFICATION



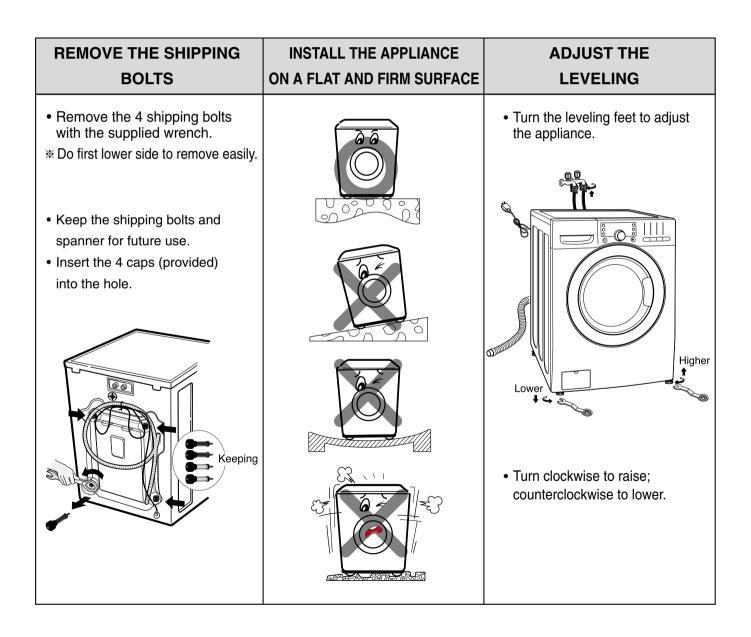
■ ACCESSORIES



4. INSTALLATION & TEST

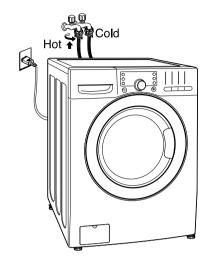
- 1 Before servicing, ask the customer what the trouble is.
- 2 Check the setup (power supply is 120V, remove the transit bolts, level the washer...)
- 3 Check with the troubleshooting guide.
- 4 Plan your service method by referring to the disassembly instructions.
- [5] Service the unit.
- 6 After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

The appliance should be installed as follows:

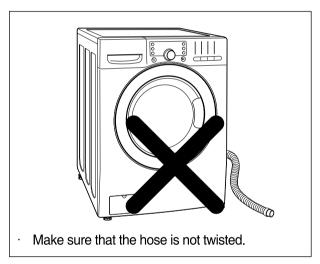


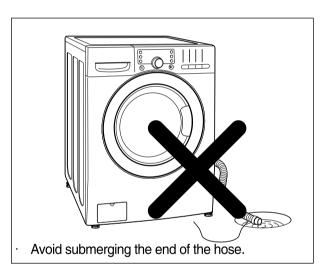
■ HOW TO CONNECT THE INLET HOSE

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



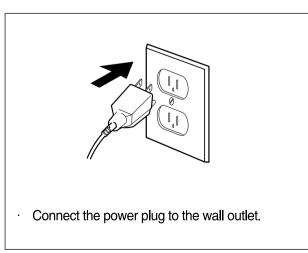
■ CONNECT THE DRAIN HOSE

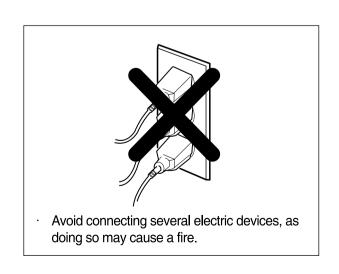




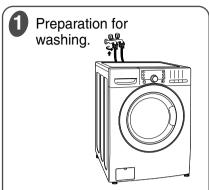
* The end of the drain hose should be placed less than 96" from the floor.

■ CONNECT POWER PLUG



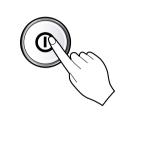


7 TEST OPERATION



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

2 Press the POWER button.



Press the START/PAUSE button.



• Listen for a click 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. 6 Check the automatic reverse rotation.



• Check if the drum rotates clockwise and counterclockwise.

4 Check the water supply.



• Check if water is supplied through the detergent dispenser.

- Check the drain and spin functions.
- Power off and the power on.
- Press the SPIN SPEED button.
- Press the START/PAUSE button.
- Check the spin and drain functions.

Press the START/PAUSE button.



 Listen for a click to determine if the door is unlocking. Water removal.

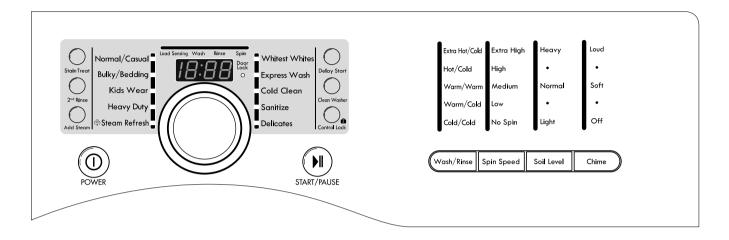


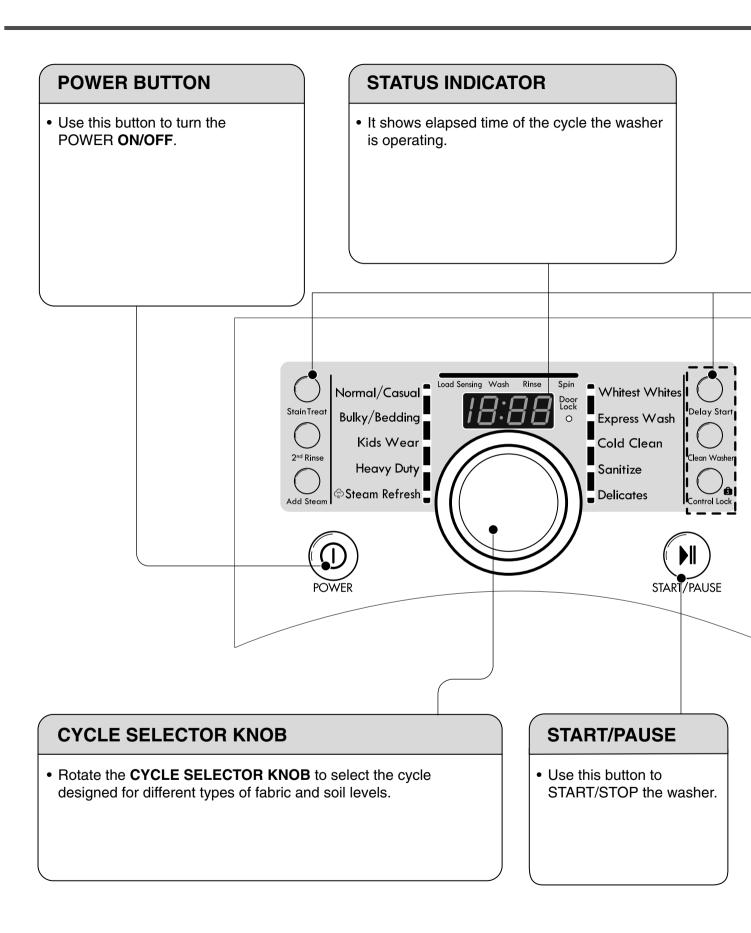
 If SERVICE is needed during check, remove the remaining water by pulling out the hose cap.

5. OPERATION

5-1. CONTROL PANEL FEATURES

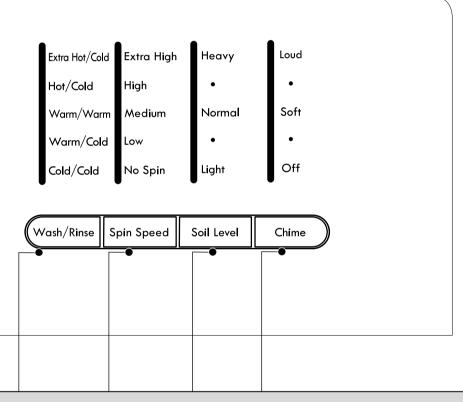
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OPTION BUTTON

- STAIN TREAT: Use this option for heavily soiled loads that need improved stain treatment.
- 2nd RINSE: Use this option to add an extra rinse to the selected cycle.
- ADD STEAM: Use this option to remove stains on fabrics without the energy usage or potential damage to fabrics.
- **DELAY START:** Use this option to delay the start of the wash cycle. Each press of the button increases the delay time by one hour, for up to 19 hours.
- CLEAN WASH: Use this option to lead to a mildew or musty smell on the washer.
- CONTROL LOCK: Use this option to prevent children from changing cycles or operating the machine.



WASH/RINSE, SPIN SPEED, SOIL LEVEL, CHIME

- 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.
- Press repeatedly to adjust the volume of the Chime

5-2. CYCLE GUIDE

The cycle guide below shows the default settings, available options and recommended fabric types for each cycle. Allowable modifier adjustments are shown below the default setting for each cycle.

= Available option

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= Default setting

	Cycle				Modifiers			Options	
Cycle	Fabric or Load Type	Display Time (Min.)	Wash Motion	Wash/Rinse Temperature	Spin Speed	Soil Level	ADD STEAM	2 nd RINSE	STAIN TREAT
Steam Refresh	Dress shirts, Blouses (Load up to 5 garments)	20							
Normal/ Casual	Cotton, linen, towels, shirts, sheets, jeans, mixed loads	50-59	0	Warm/Cold Warm/Warm Hot/Cold Cold/Cold	High Extra High No Spin Low Medium	Normal Heavy Light	•	•	•
Bulky/ Bedding	Large items such as blankets and comforters	59		Warm/Cold Warm/Warm Hot/Cold Cold/Cold	Low Medium No Spin	Normal Heavy Light	•	•	•
Kids wear	Kids Wear	91-97	0	Hot/Cold Cold/Cold Warm/Cold Warm/Warm	High Extra High No Spin Low Medium	Heavy Light Normal	•	•	•
Heavy Duty	Heavy soiled Cotton Fabrics	74-80	0	Warm/Cold Warm/Warm Hot/Cold Cold/Cold	Extra High No Spin Low Medium High	Heavy Light Normal	•	•	•
Whitest Whites	White Fabrics	69-75	0	Hot/Cold Cold/Cold Warm/Cold Warm/Warm	High Extra High No Spin Low Medium	Normal Heavy Light	•	•	•
Express Wash	Lightly soiled clothing and small loads	20		Hot/Cold Cold/Cold Warm/Cold Warm/Warm	Extra High No Spin Low Medium High	Light Normal Heavy		•	
Cold Clean	Small loads of cotton, linen, towels, shirts, sheets, jeans, mixed loads	57-63	0	Cold/Cold	High Extra High No Spin Low Medium	Normal Light		•	
Sanitize	Heavily soiled items, such as work clothes, diapers, etc.	101-107		Extra Hot/Cold	High Extra High No Spin Low Medium	Normal Heavy Light		•	•
Delicates	Dress shirts/blouses nylons, sheer or lacy garments	42		Cold/Cold Warm/Cold Warm/Warm	Medium No Spin Low	Normal Heavy Light		•	

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

○ NOTE: These cycles use various wash motions to enhance cleaning and/or fabric care performance. These wash motions may sound different at different stages of the wash cycle. This is normal.

5-3. SPECIAL FUNCTIONS

STAIN TREAT

Stain Treat

Use this option for heavily soiled loads that need improved stain treatment. When STAIN TREAT is selected, the water temperature for the selected cycle will begin as warm water to help prevent the setting of certain types of stains. Then as the cycle progresses, the water will be heated to higher temperatures to help remove stains that require treatment at higher temperatures. This option is designed for optimum stain removal.

NOTE: If STAIN TREAT is selected with the SANITIZE cycle, the cycle will begin with very hot water since that is default for that cycle and cannot be changed.

2nd RINSE



This option will add an extra rinse to the selected cycle. Use this option to help ensure the removal of detergent or bleach residue from fabrics.

ADD STEAM Option



STEAM cycles include the Steam Refresh, Normal/Casual, Bulky/Bedding, Kids Wear, Heavy Duty and Whitest Whites. Adding steam to these cycles provides superior cleaning performance while reducing energy and water consumption. By using a hot steam spray from above and cooler water below, fabrics get the cleaning benefits of a super hot wash. without the energy usage or potential damage to fabrics.

To ADD STEAM to a cycle:

Turn on the washer and turn the cycle selector knob to select a cycle that allows the steam option.

Press the ADD STEAM button. The washer will automatically adjust the cycle settings.

3 Set any other desired options.

4 Press the START/PAUSE button to start the cycle.

CAUTION:

The door may become quite warm during steam cycles. This is normal.

Do not attempt to override the door lock mechanism or reach into the washer during a steam cycle. Steam can cause severe burns.

IMPORTANT NOTES ABOUT STEAM CYCLES:

Steam may not be visible during the steam cycles. This is normal.
Do not use steam with delicate fabrics such as wool, silk, or easily discolored fabrics.

DELAY START



Once you have selected the cycle and other settings, press this button to delay the start of the wash cycle. Each press of the button increases the delay time by one hour, for up to 19 hours. Once the desired delay time is set, press the START/PAUSE button to start the delay time. If the START/PAUSE button is not pressed within 4 minutes, the control will shut off and the settings will be lost.

CLEAN WASHER



A buildup of detergent residue can occur in the wash tub over time and can lead to a mildewy or musty smell. The CLEAN WASHER cycle is specially designed to remove this buildup using bleach or other cleaner designed specifically for cleaning front load washers. The CLEAN WASHER cycle should be run once a month, or more often under heavy use conditions or if odor is present.

- Turn on the washer and press the CLEAN WASHER button. Selecting any other cycle after CLEAN WASHER has been selected will cause the CLEAN WASHER cycle to be cancelled.
- 2 Fill the bleach dispenser to the MAX line with liquid chlorine bleach. Do not overfill the bleach dispenser. Overfilling will cause the bleach to be dispensed immediately.
- 3 Press the START/PAUSE to start the cycle.
- 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.
- * For powdered tub cleaners, add the cleaner to the main wash compartment of the dispenser drawer. Place tablet cleaners directly into the tub. Always follow the cleaner manufacturers instructions and recommendations

CONTROL LOCK



Use this option to disable the controls. The washer can be locked during a cycle. This feature allows you to prevent children from changing cycles or operating the machine. Once set, the CONTROL LOCK must be turned off before the controls can be used. Once the washer has shut off, the power button will allow the machine to be turned on, but the controls will still be locked. When the controls are locked, "CL" will be displayed alternately with the estimated time remaining.

Press and hold the CONTROL LOCK button for 5 seconds to activate or deactivate the controls.

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.
B.	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.
H.	Intermittent spin	The same as item A.
I.	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.	Disentangling	After spin finishes, disentangling starts to remove unbalanced laundry.
M.	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.

* Disentangle: D-T				Working Time		20		001	20	60	Ç	66	7	42	75	C/	0	00	63	20	20	97	20
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PROGRAM CHART			<u></u>			Time (SEC)	Conitizo		Normal		Т	/Bedding	Γ	Delicates	14/15/15/15/15/15/15	Millest Willes	100,000	neavy Duty		Cold Clean	Express Wash	Kids wear	Rinse + Spin

* Wash time is in minutes.

Pre-Setting Time: Water Supply - 60 sec.

The cycles may different depending on the models.

^{**} The total working time will vary with the load size, water temperature and ambient temperature.

7. TEST MODE

7-1. SAFETY CAUTION

- There's built-in AC 110V 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 SPIN SPEED and SOIL LEVEL buttons simultaneously.
- 2. Press the POWER (a) button, while the above condition. Then buzzer will sound twice.
- 3. Press the START/PAUSE (a) 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.	LOAD TEST MODE
1 time	Locks the door.	LOAD TEST MODE
2 times	Tumble clockwise.	rpm (42~50)
3 times	Low speed Spin.	rpm (35~45)
4 times	High speed Spin.	rpm (110~117)
5 times	Inlet valve for prewash turns on.	Water level frequency (0~255)
6 times	Inlet valve for main wash turns on.	Water level frequency (0~255)
7 times	Inlet valve for Hot water turns on.	Water level frequency (0~255)
8 times	Inlet valve for steam turns on.	Water level frequency (0~255)
9 times	Inlet valve for bleach turns on.	Water level frequency (0~255)
10 times	Tumble counterclockwise.	rpm (42~50)
11 times	Heater turns on for 3 seconds.	Water temperature
12 times	Circulation pump turns on.	Water level frequency (0~255)
13 times	Drain pump turns on.	Water level frequency (0~255)
14 times	Steam water level sensor operates.	AG tub water level frequency (0~255)
15 times	Steam Heater turns on for 1.2sec.	Steam generator temperature
16 times	off	

NOTES:

- RPM < 220 : RPM = display / RPM > 200 : RPM = display X 10
- WATER LEVEL: o255 = empty / o248 = normal / o255 = tub clean

7-3. HOW TO CHECK THE WATER LEVEL FREQUENCY

* Press the WASH/RINSE and DELAY START 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

8. TROUBLESHOOTING

8-1. 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.

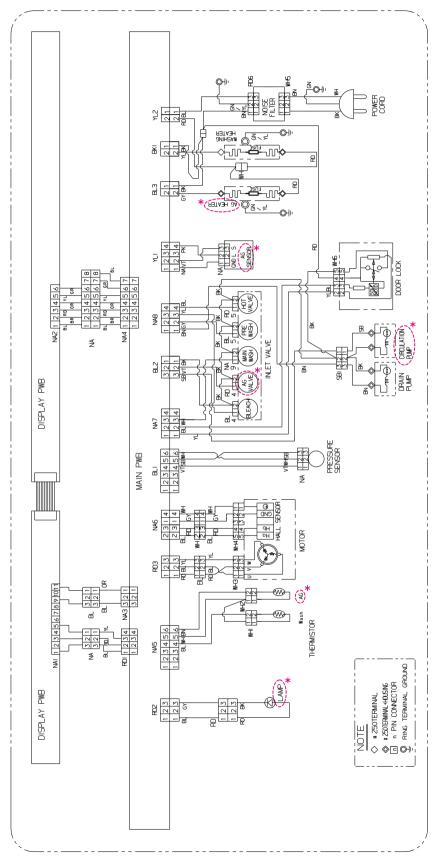
8-2. ERROR MODE SUMMERY

- 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,", "EE,", "dE 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	ΙE	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	UNBALANCE ERROR	LIE	 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	ΩE	Not fully drained within 10 minutes.
4	OVER FLOW ERROR	FE	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	PE	The SENSOR SWITCH ASSEMBLY is out of order.
6	DOOR OPEN ERROR	dΕ	 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	ŁE	The THERMISTOR is out order.

	ERROR	SYMPTOM	CAUSE
8	LOCKED MOTOR ERROR	LE	 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 QC Test Mode.
10	POWER FAILURE	PF	The washer experienced a power failure.

8-3. TROUBLESHOOTING SUMMARY



NOTE: ____,These are only on models with the steam feature.

NA7, BL2 and NA		ın NA7-3 WH	BL2-1 BK	BL2-2 VT	NA8-2 GY	NA8-3 YL	NA8-4 BL	BL2, NA8 and	TEST POINTS	BL2-3 SB	NA8-1 BN	SB1-1 SB,	2 BK	YL1 MAI	TEST POINTS	YL1 -1 NA	YL1 -2 VT	YL1 -4 PK	BL3, BK1 and	TEST POINTS	BL3-2 GY,	BK1-2 YL	BL3-1 BK		BK1-2 YL		YL2-1 BL		YL2-2 RD	ut) WH1 MAIN P	al TEST COMPONE	POINTS			WHI Commor		WH1
	w WH – White	y BN – Brown	al PK - Pink			VALUE	Ground	12Vdc	5Vdc	Ь	VALUE	16.5Vdc	STOR	COMPONENT	Wash Thermistor	AG Thermistor	AOTOR	COMPONENT	D	>	×	+	유	На	GND	OR	REMARKS			Voltage (input)	Pulsing Signal	Pulsing Signal	SWITCH	HUTIN	COMPONENT	PTC	DTC
COLOR KEY	ne YL – Yellow	e GY - Gray	ח NA - Natural		SPLAY PCB					I PCB - LAMP			B - THERMISTOR	S S	Wash	AG	RD3 and NA6 MAIN PCB - MOTOR	S								NA6 MAIN PCB - MOTOR	RESISTANCE	8-12 Ω	8-12 ß	10-15 Vdc	10 Vdc	10 Vdc	PCB - DOOR SV	2 - DOOR SV			
100	SB – Sky Blue	OR - Orange	GR – Green		NA2 DISPLAY	TEST POINTS	NA2-3 RD	NA2-4 OR	NA2-5 YL	RD2 MAIN PCB	TEST POINTS	RD2-1 BL	NA5 MAIN PCB	TEST POINTS	NA5-4 BL	NA5-6 BN	3 and NA6 N	TEST POINTS	RD3-1 RD	RD3-2 BL	RD3-3 YL	NA6-1 GY	NA6-2 BL	NA6-3 RD	NA6-4 WH	NA6 MAIN		o 2 RD	o 3 BL		4 GY	o 4 GY	NA7 MAIN PCI	٦z		NA7-1 YL	10 0 2 2 10
	BK – Black	BL - Blue	RD - Red	VT – Violet		TEST	NA2-	NA2-	NA2		TEST F	RD2	Ž	TEST F	NA5	NA5-	RD®	TEST	RD3-	RD3	RD3	NA6-	NA6	NA6-	NA6-		TEST POINTS	NA6-1 GY to 2 RD	NA6-1 GY to 3 BL	NA6-1 GY to 4 GY	NA6-2 BL to 4 GY	NA6-3 RD to 4 GY	AN	AN	TEST	NA7	LAIA

N Pu	IA8	nd NA8 MAIN PCB - INLET VALVE	VLET VA	LVE	M	WH2 MAIN PCB
INTS	တ	CON	COMPONENT		TEST	LOMBONEN
ММ		Ma	Main Wash		POINTS	
BK		၁ 	Common			
5		A	AG Valve			
ĠΥ			Pre Valve			
ᆛ			Bleach			
뭅		Ĭ	Hot Valve		2	Ç
8 an	ld SE	8 and SB1 MAIN PCB	- PUMPS		WHZ-	Steam: Thermistor*
<u></u>	8	COMPONENT	CONDITION	NOIL	NO.	
		Common	Pump running	unning		
	۵	Drain Pump	Pump stopped	peddo		
	Ř	Recirc Pump*	Drain pump	dwn		
			disconnected	ected		
ΔĀ	MAIN PCB	CB - AG SENSOR	SOR			WH3 MA
INTS	ြ	NOO	COMPONENT	 -	TE	ST POINTS
ı₹			Ground		MH3	WH3 -1 BL to 2 RD
5			S		WH3	WH3 -2 RD to 3 YL
X			_		MH	WH3 -3 YL to 1 BL
l an	d YL	1 and YL2 MAIN PCB -	HEATER	m		NA9 INLET \
_	ဗြ	COMPONENT	RESISTANCE	LANCE	TE	TEST POINTS
\vdash	>	Vac (input)	12 \\ \Omega - 18 \\ \Omega	18 \\ \Omega\$	NA9	NA9 -1 WH to 2 BK
\dashv					RD6	RD6 and WH5 POV
	Steal	Steam Generator/			1	TEST POINTS
	윈	Heater (input)			WH5-1	WH5-1 BK to RD6-3 I
	Š	Wash Heater			WH5-3	WH5-3 BN to RD6-1 I
		(input)				WH6 MAIN
	Stea	Steam Generator/			TES	TEST POINTS
	Hes	Heater (output)			WH6-2	WH6-2 YL to 4 RD
	Λŝ	Vac (output)			WH6-3	WH6-3 BL to 4 RD
N	VIN PCB	- TUB THERMISTORS	AIISTORS		WH6-4	WH6-4 RD to 5 BK
ONENT	ENT	TEMPERATURE		RESISTANCE	WH6-2	WH6-2 YL to 4 RD
		86°F (30°C)	Н	39.5 kΩ	o Vuly o	* Only on steam model
mmon	–	104°F (40°C)		26.1 kΩ		
		140°F (60°C)		12.1 kΩ		
				-		

TEMPERATURE RESISTANCE

- STEAM THERMISTOR

26.1 kΩ 39.5 KΩ

104°F (40°C)

86°F (30°C)

12.1 kΩ

140°F (60°C) 158°F (70°C)

8.5 kΩ

3.8 kΩ 2.8 kΩ 2.1 kΩ

> 221°F (105°C) 241°F (116°C)

203°F (95°C)

1.4 kΩ 1.0 kΩ 0.7 KΩ 0.4 kΩ

266°F (130°C) 293°F (145°C) 320°F (160°C) 356°F (180°C) RESISTANCE

IN PCB - MOTOR

5-15 ₪ 5-15 \(\text{\alpha} \) 5-15 \\ 0

8.5 kΩ 3.8 kΩ 2.8 KΩ

158°F (70°C) 203°F (95°C)

221°F (105°C)

Thermistor

- 2 BL

TEMPERATURE | RESISTANCE

PCB - DOOR LOCK

NER CORD- NOISE FILTER

RESISTANCE 0 Ω-15 kΩ

/ALVE- MAIN WASH

RESISTANCE

ប ຜ 0 700-1500 ₪

77°F (25°C) 77°F (25°C)

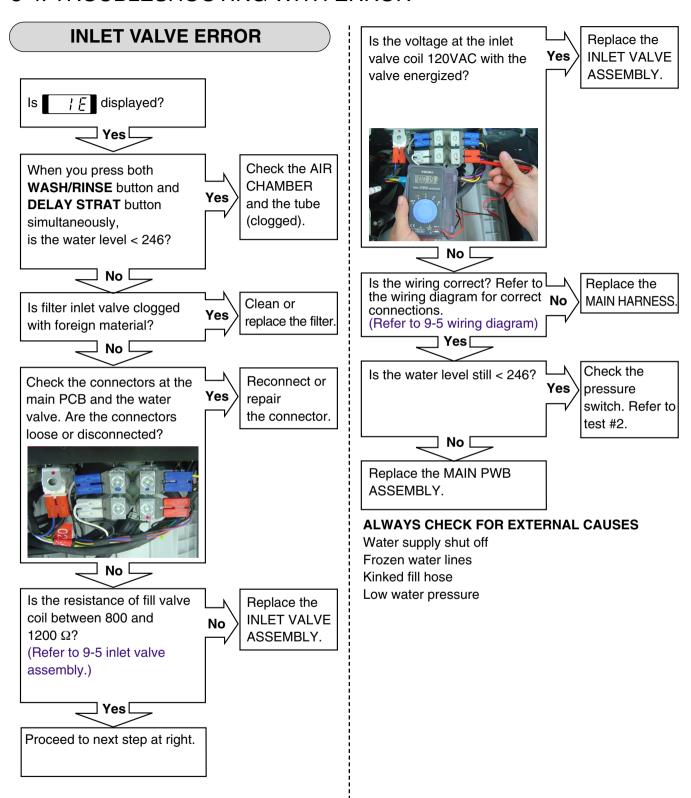
ប 06-09

120 Vac

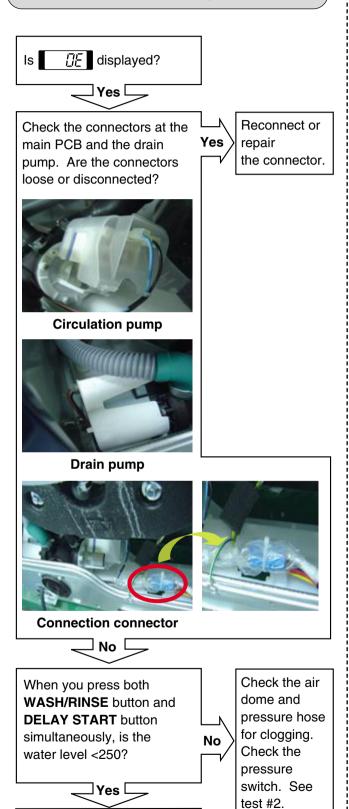
Voltage Input

Infinity

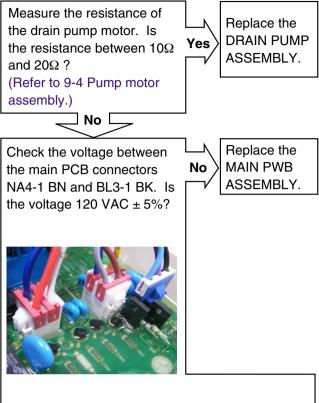
8-4. TROUBLESHOOTING WITH ERROR







Proceed to next step at right



TO TURN ON THE DRAIN PUMP:

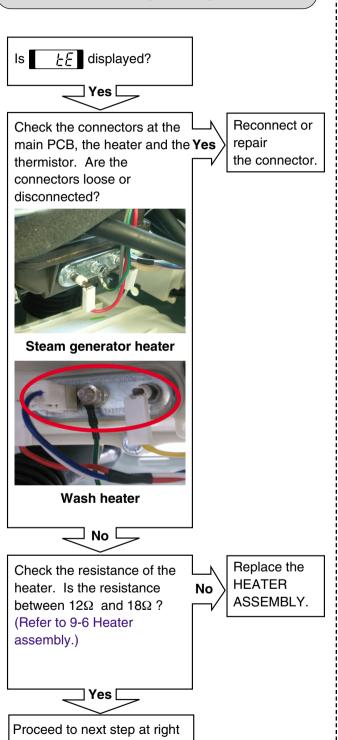
- 1. Turn on the washer
- Press the SPIN SPEED button to select LOW speed.
- Press the START/PAUSE button.
 The drain pump will be energized for several minutes at the beginning of the spin cycle.

ALWAYS CHECK FOR EXTERNAL CAUSES

Kinked or clogged drain hose Frozen drain hose

Foreign objects clogging the drain pump filter Foreign objects caught in pump impeller

HEATING ERROR



Reconnect or Is the connector connected to l Yes repair thermistor disconnected or the connector. disassembled? Steam generator thermistor Wash thermistor] No □ Replace the Check the thermistor Yes THERMISTOR resistance. Is the resistance ASSEMBLY. correct according to the chart? (Refer to 9-7 thermistor assembly.) J No ∟ Replace the Are the thermistor terminals Yes THERMISTOR dry and free of corrosion?

[Note]

The temperature sensing circuits on the main PCB are very simple, consisting only of resistors and capacitors. Problems with wiring or connections in the thermistor circuit are the most likely cause for this error. Be sure to check ALL connections and wiring thoroughly. The main PCB should only be replaces as a last resort, as it is unlikely to be the cause.

ASSEMBLY.

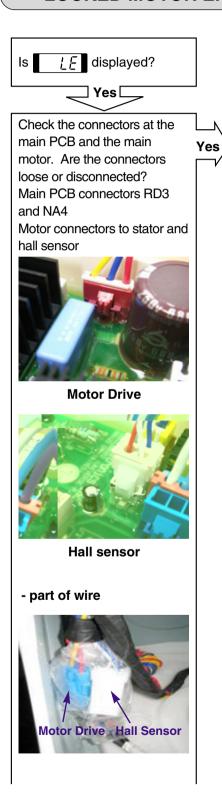
LOCKED MOTOR ERROR

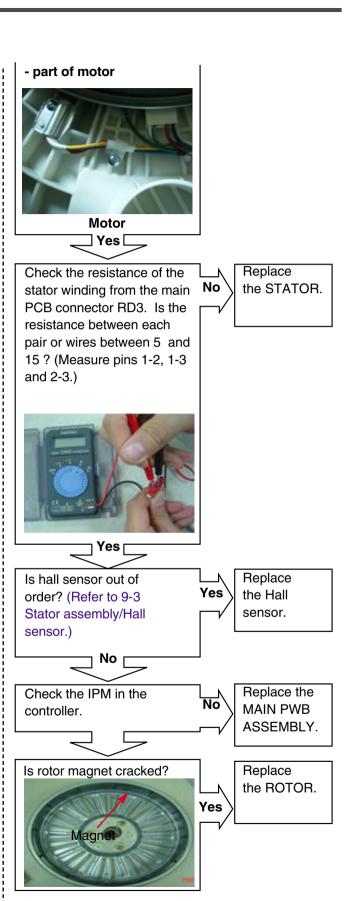
Reconnect

the connector.

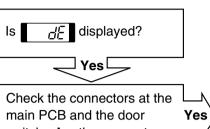
(connector /

wire / motor)





DOOR OPEN ERROR



switch. Are the connectors loose or disconnected?



Reconnect or repair the connector

]No □

Is the door closing properly? Is the gasket damaged and interfering with the door or latch? Are there foreign objects caught in the door? Is the hinge damaged?





Prceed to next step at right

Replace Door Assembly

No

Is the spring in the door latch hook on the door strong and tight?

Replace gasket or hinge. Remove foreign objects.

No

No

No

Can you hear the door latch attempting to lock the door at the beginning of the cycle or diagnostic mode?

ີ Yes [

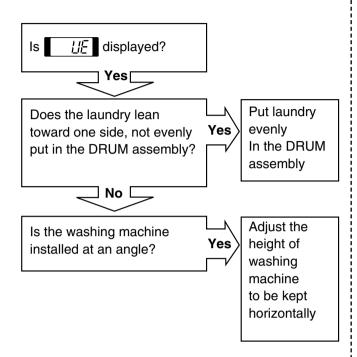
Replace the **PCB** ASSEMBLY.

] Yes [

If tested off the stator using the diagram above ohm check the resistors from pin 5 to pin 1 & pin 2. Does either test show an open (infinity) the hall sensor? (You should measure approximately 10,000 ohms from pin 5 to pin 1 and 10,000 ohms from pin 5 to pin)

Replace the **DOOR SWITCH** ASSEMBLY.

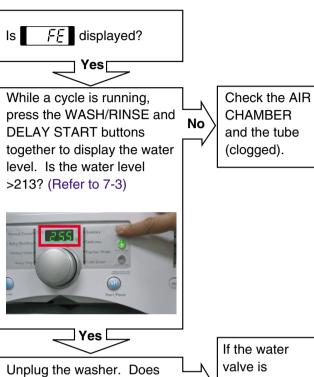
UNBALANCE ERROR



[Note] Environmental check list

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

OVER FLOW ERROR



No

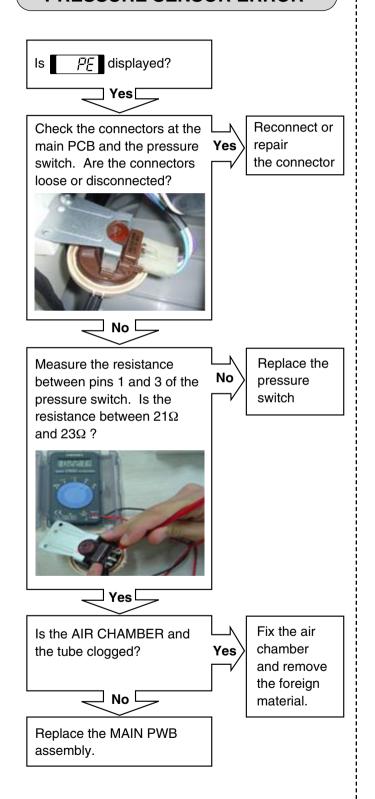
Unplug the washer. Does the water valve remain on when the power is removed from the washer?

□ Yes □

Replace the INLET VALVE ASSEMBLY

valve is
energized as
soon as the
washer is
plugged in or
when the power
button is
pressed, replace
the main PCB.

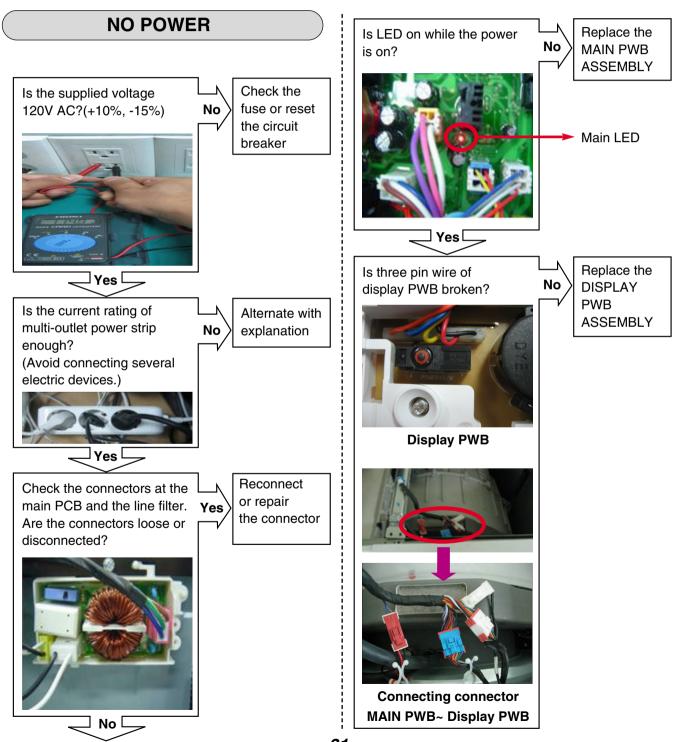
PRESSURE SENSOR ERROR



8-5. TROUBLE SHOOTING ELSE

A 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.



BUTTON DOESN'T WORK

Check the connectors at the main PCB and the line filter. Are the connectors loose or disconnected?



Reconnect or Repair the connector





No □

Check the connectors between the main PCB and the display PCB. Are the connectors loose or disconnected?



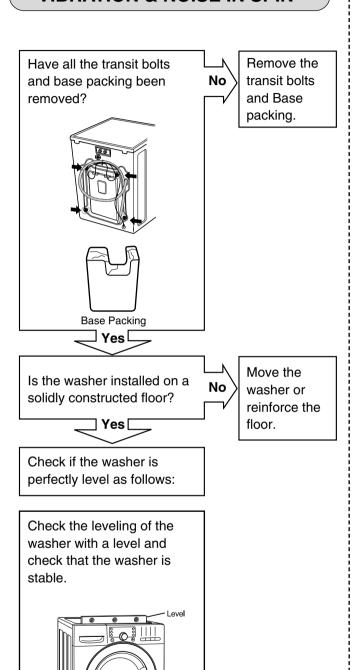
Replace the main PCB.



No□

Replace the main PCB.

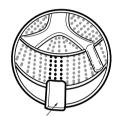
VIBRATION & NOISE IN SPIN



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.



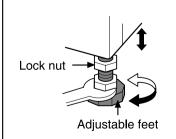
Unbalance Part

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.



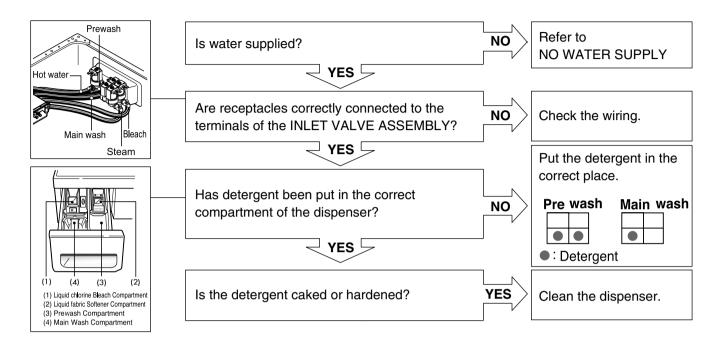
If it is not stable, adjust feet accordingly. After the washer is level, tighten the lock nuts up against of the base of the washer. All lock nuts must be tightened.



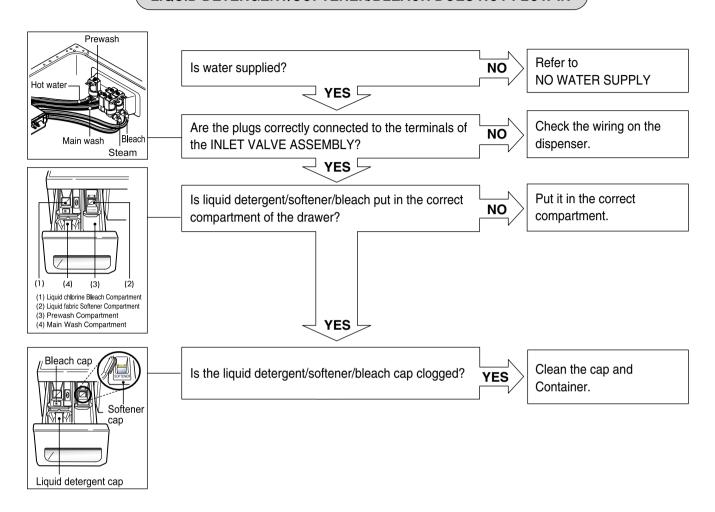
Check the vibration Sensor.

Yes

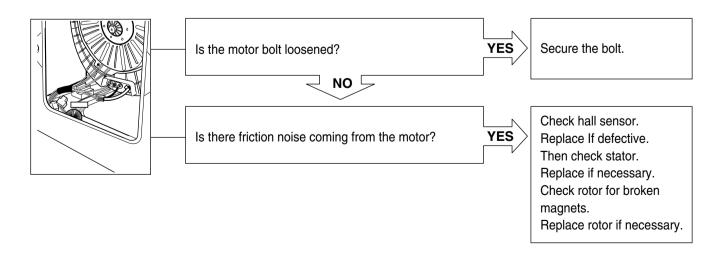
DETERGENT DOES NOT FLOW IN



LIQUID DETERGENT/SOFTENER/BLEACH DOES NOT FLOW IN



ABNORMAL SOUND

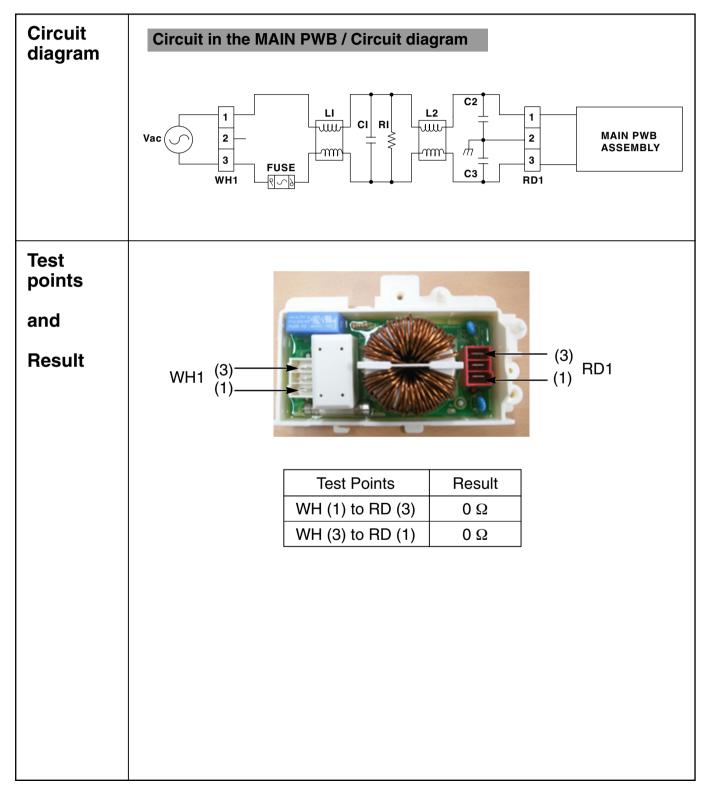


9. COMPONENT TESTING INFORMATION

A WARNING

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

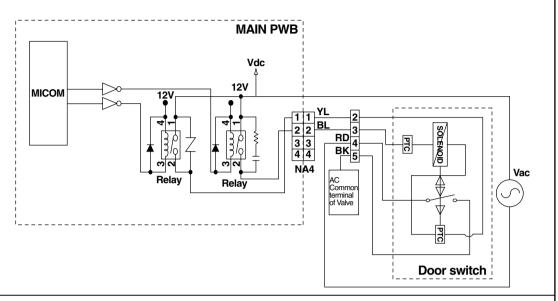
9-1. FILTER ASSEMBLY (LINE FILTER)



9-2. DOOR LOCK SWITCH ASSEMBLY

Circuit diagram

Circuit in the MAIN PWB / Circuit diagram



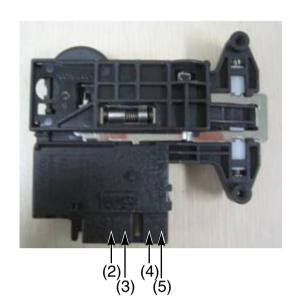
Function

The Door Lock Switch Assembly consists of a Heating PTC, a Bimetal, a Protection PTC, and a Solenoid. It locks the door during a wash cycle.

- 1. Operation for door closing
 - After the system turns on, PTC heating starts up through terminal 2~4's authorizing the power on.
 - After PTC heating starts up and before solenoid operation is driven, force the system to the off position through CAM.
 - ⇒ Door close
 - Authorizing one impulse through terminal 3~4 (PTC & solenoid) will make the door locked.
 - Door lock is detected when switches in terminal 4~5 are set closed.
 - ⇒ CAM rotation will forcibly clear off the connection.

 The maximum, allowable number of impulse authorizations is 2
 - ⇒ Upon the third authorization of the impulse, the position of CAM goes back to the door-open position.
 - Authorizing the impulse occurs in 4.5 seconds upon input for max performance and two authorization processes are allowed at most.
 - ⇒ Normal operation period of PTC heating: 1.5 5 seconds (Defects from the development process)
- 2. Operation for door opening
 - With a temporary stop, door automatically opens by CAM rotations after authorizing the impulse from the terminal 3 ~ 4 and the power turns off maximum of 3 times of the authorizing period
 - Upon the fourth authorization of the impulse, the position of CAM goes back to the door-close position.

Test points

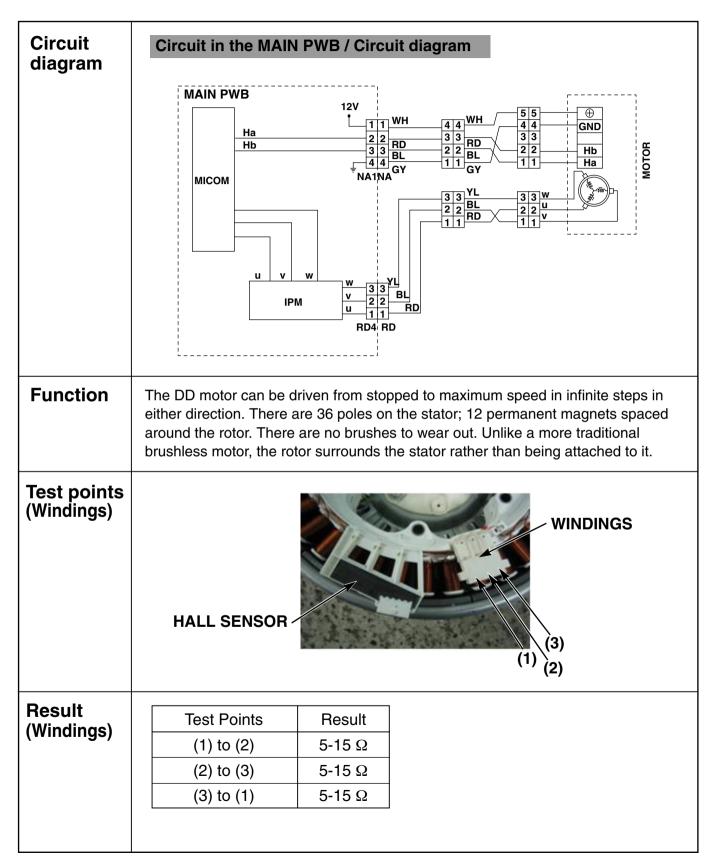


Result

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

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9-3. STATOR ASSEMBLY



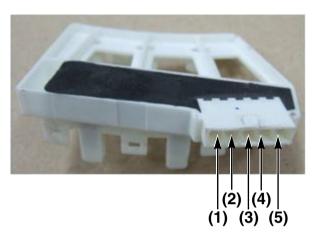
The hall sensor determines the speed and direction of the motor. It also can read that the load is off balance when the drum speed fluctuates.

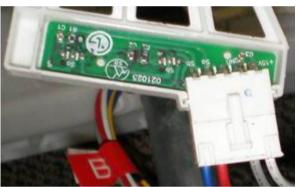
Test point

and

Result (Hall Sensor)

- Voltage Testing Hall Sensor at Stator





If measuring voltage from the Main PCB Assembly to the Hall Sensor, use the following steps:

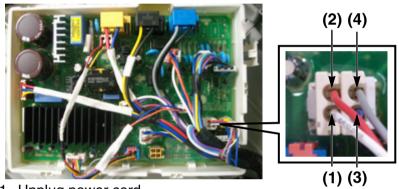
- 1. Unplug power cord.
- 2. Remove rear washer panel.
- 3. Locate Hall sensor connector on the stator behind the rotor.
- 4. Place meter leads on terminals 5 to 4, white to gray.
- 5. Plug in power cord, close door, and press power button. DO NOT PRESS START!
- 6. You should measure 10 to 15 Vdc. If 10 to 15 Vdc is present, control board, white wire, and gray wire are OK! If not follow testing output voltages on control board in next section.

- 7. 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.
- 8. 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 and

Result (Hall Sensor)

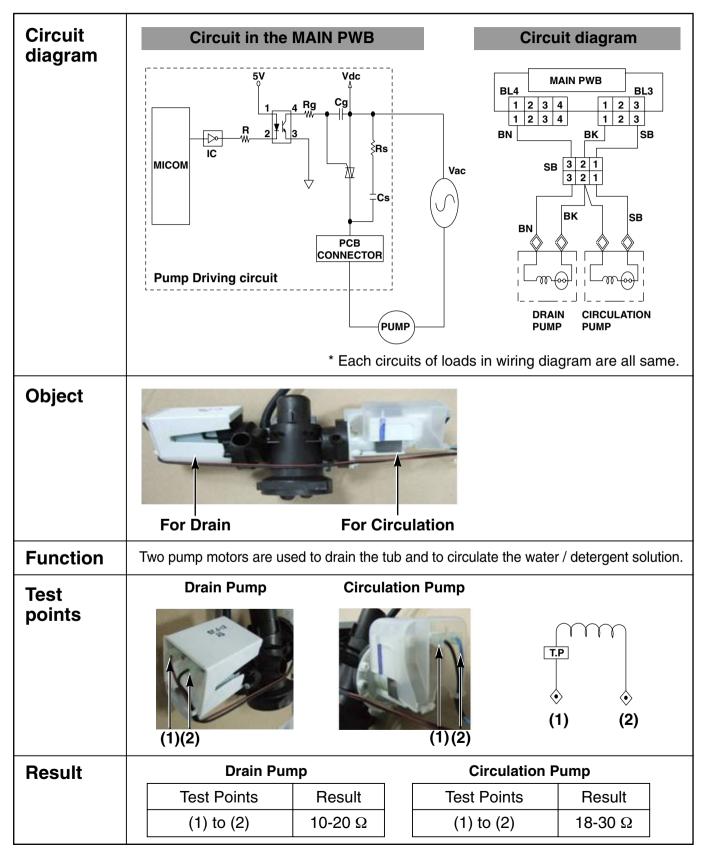
- Voltage Testing Hall Sensor from the Main PCB Assembly



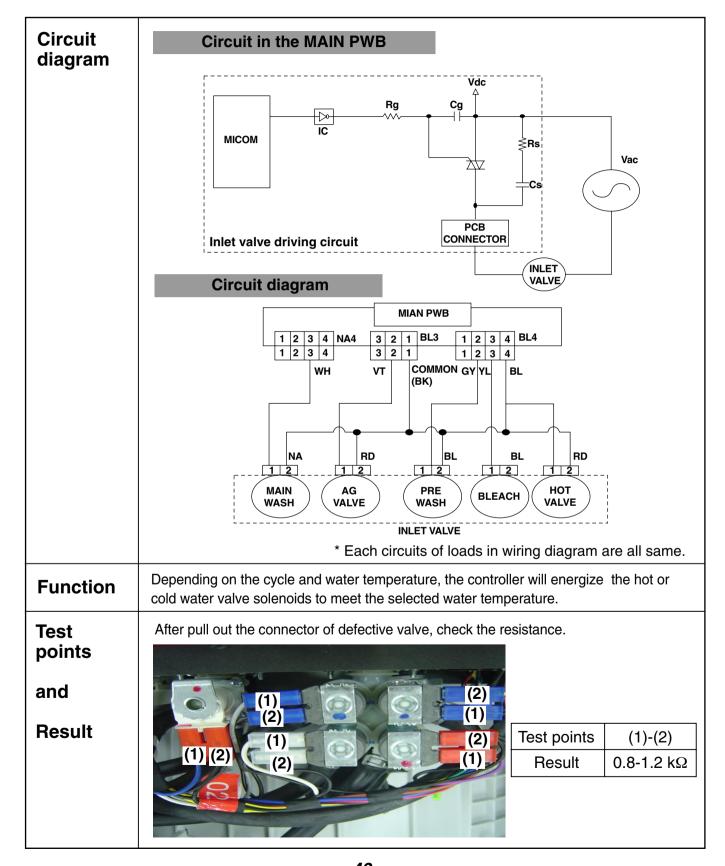
- 1. Unplug power cord.
- 2. Remove rear panel.
- 3. Remove Washer Top.
- 4. Remove Main PCB Assembly cover as shown in Figure below.
- 5. Locate the white Hall Sensor 4 wire connector using wiring diagram wire colors as your guide.
- 6. Plug in power cord, close door, and press power button. DO NOT 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

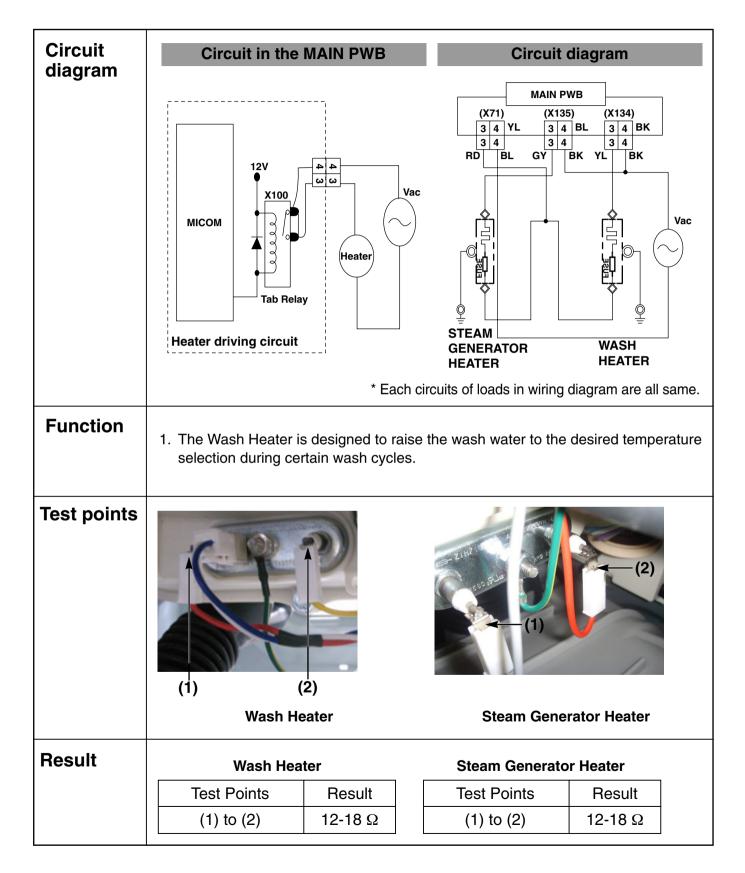
9-4. PUMP MOTOR ASSEMBLY



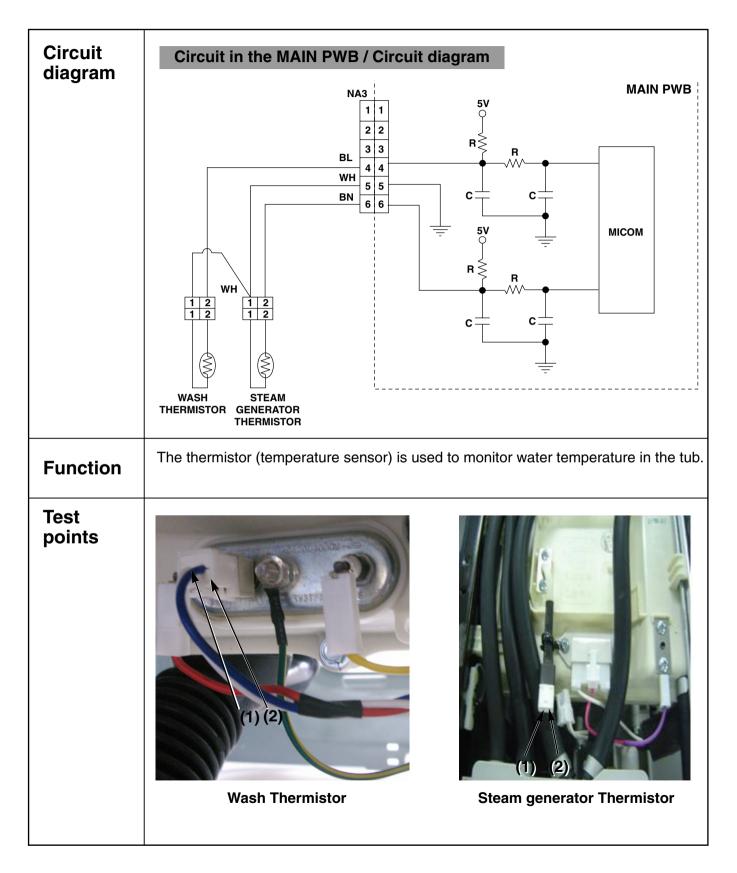
9-5. INLET VALVE ASSEMBLY



9-6. HEATER ASSEMBLY



9-7. THERMISTOR ASSEMBLY



Result **Wash Thermistor Test Points** Result Remarks (tolerance ±5%) (1) to (2) At 86°F (30°C) $39.5~\mathrm{k}\Omega$ At 104°F (40°C) 26.1 $k\Omega$ 12.1 k Ω At 140°F (60°C) At 158°F (70°C) $8.5~\text{k}\Omega$ $3.8~\text{k}\Omega$ At 203°F (95°C) $2.8~\text{k}\Omega$ At 221°F (105°C)

Function

2) Operation mechanism of Steam generator

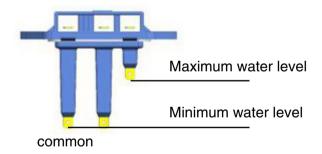
After supplying some amount of water through inlet valve and water level sensor, Heater operates and steam generates. Generated steam is sprayed by nozzle. If the water in the steam generator is reduced by spraying steam, water level sensor decide to supply water or not.

3) Operation method of Steam generator

The Steam Generator Assembly is supplied as an assembly only; parts like the water level sensor, thermistor, or heater cannot be replaced individually. Diagnosis is limited to determining malfunction and replacing as an assembly. The steam generator does not have to be removed from the machine to be drained. Be sure to let the water cool to avoid a burn. Have a hose available to slip onto the connector or a large towel to catch the water so it doesn't run down into the machine cabinet. If you remove the steam generator before draining it, be sure to avoid tipping it and spilling the water.

2. Water level sensor

1) Structure of water level sensor



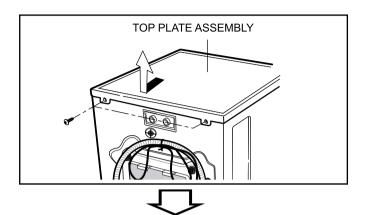
2) Function of Water level sensor

It is the part of sensing water level. It decides to supply water or not when the steam generate. (to protect heater)

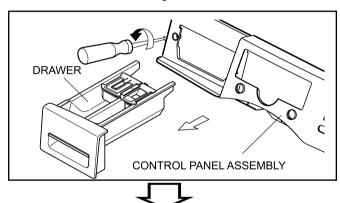
10. DISASSEMBLY INSTRUCTIONS

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

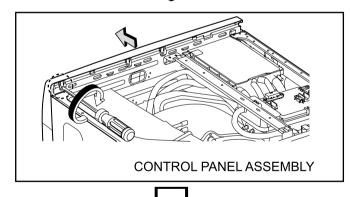
CONTROL PANEL ASSEMBLY



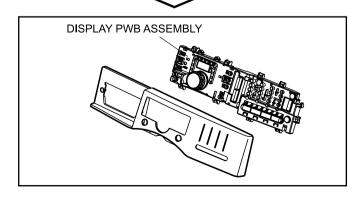
- ① Unscrew 2 screws on the back of the top plate.
- 2 Pull the top plate backward and upward as shown.



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

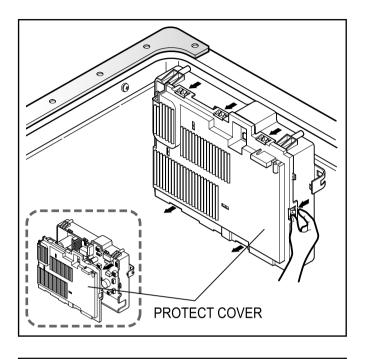


- ⑤ Remove one screw.
- ⑥ Lift the side the control panel assembly and pull it out

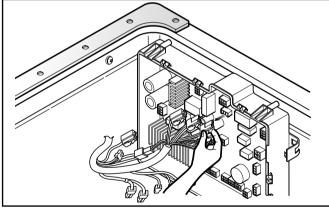


- Unscrew the 9 screws(M4), 1 screw(M3) from the control panel assembly.
- ® Disassemble the Display PWB Assembly.

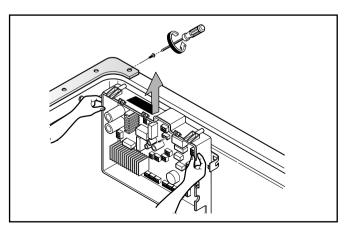
MAIN PWB ASSEMBLY



- ① Disconnect the POWER connector and SENSOR SWITCH ASSEMBLY.
- ② Remove the Protective cover.

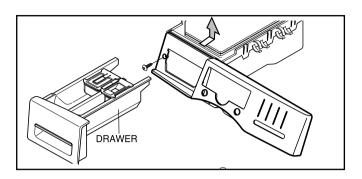


③ Disconnect the connectors.

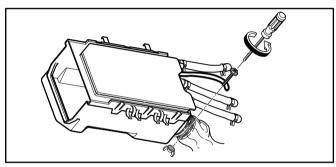


- 4 Unscrew 1 screw on the back.
- ⑤ Remove the Main PWB.

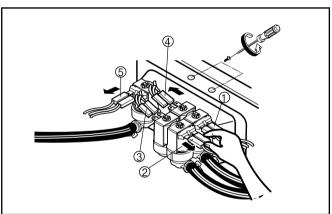
DISPENSER ASSEMBLY



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

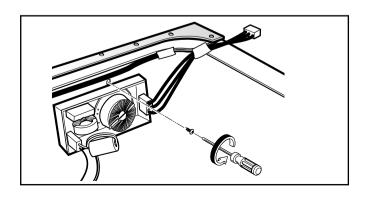


④ Unscrew the Clamp nut at the lower part of the dispenser.



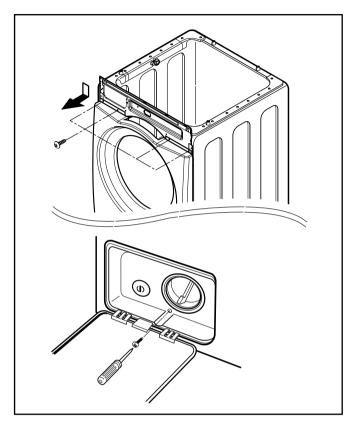
- ⑤ Disassemble the 4 connectors from the valves.
 - Wire Color
 - ① Blue Housing (YL-BK)
 - ② White Housing (BK-WH)
 - ③ Blue Housing (BK-GY)
 - 4 Red Housing (BK-Blue)
- (6) Unscrew 2 screws from the back of the cabinet.

NOISE FILTER

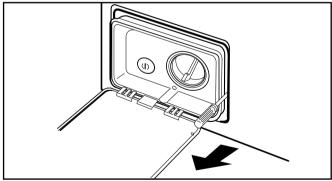


- ① Disassemble two (or three) connectors from the NOISE FILTER.
- ② Unscrew a screw from the TOP BRACKET.

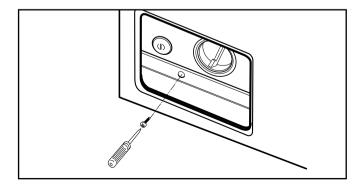
CABINET COVER



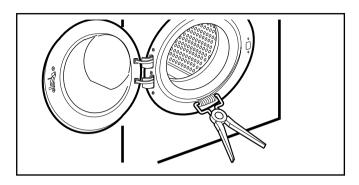
- ① Unscrew the 5 screws from upper of the canbinet cover.
- ② Unscrew the screw from filter cover.



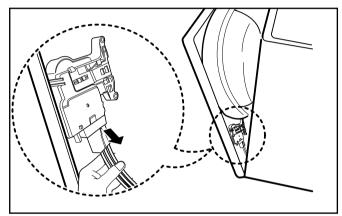
③ Put a flat (-) screwdriver or putty knife into the hinge slots at the bottom of the cover and pry it out.



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

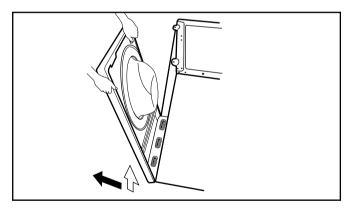


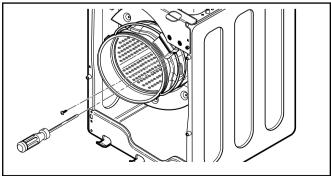
- ⑤ Open the door.
- ⑥ Disassemble the clamp assembly.



- Tilt the cabinet cover.
- ® Disconnect the door switch connector.

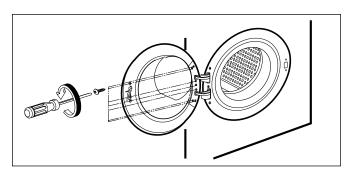
NOTE: When assembling the CABINET COVER, connect the door switch connector.



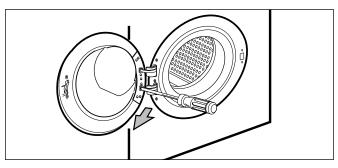


- ① Disassemble the clamp assembly.
- $\mathbin{\textcircled{\scriptsize 1}}$ Disassemble the gasket.

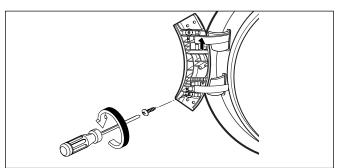
DOOR



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



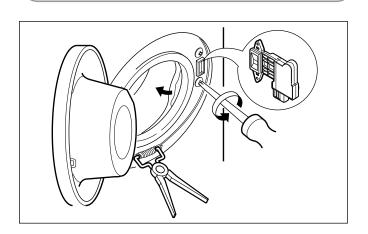
③ Put a flat (-) screwdriver into the opening of the hinge, and pull out the hinge cover.



- ① Unscrew a screw from the lower side of door.
- **5** Disassemble the door upward.

※ Be careful! The door is heavy.

DOOR LOCK SWITCH ASSEMBLY

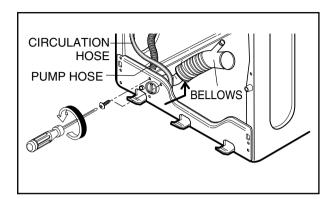


- ① Open the door and disassemble the CLAMP ASSEMBLY.
- 2 Unscrew the 2 screws.

*** NOTE**

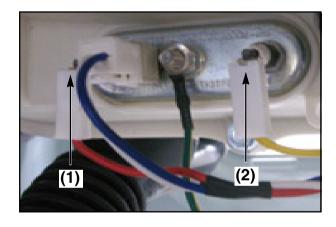
• Reconnect the connector after replacing the DOOR SWITCH ASSEMBLY.

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

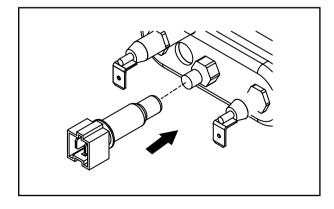


- 1 Disassemble the cabinet cover.
- (2) Separate 2 connectors from the heater.
- (3) Loosen the nut and pull out the heater.

***** CAUTION

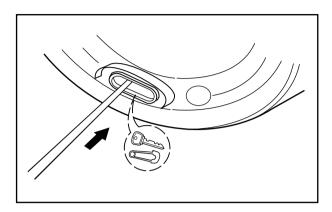
- When assembling the heater, insert the heater into the heater clip on the bottom of the tub.
- Tighten the fastening nut so the heater is secure.

THERMISTOR



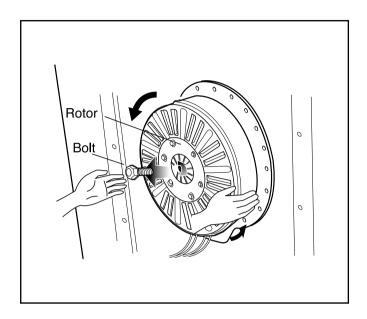
- (1) Disassemble the cabinet cover.
- ② Unplug the white connector from the thermistor.
- ③ Pull it out by holding the bracket of the thermistor.

WHEN FOREIGN OBJECT IS STUCK BETWEEN DRUM AND TUB

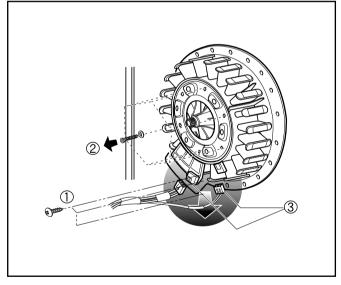


- 1 Disassemble the cabinet cover.
- ② Separate the heater from the tub.
- ③ Remove any foreign objects (wire, coin, etc.) by inserting a long bar in the opening.

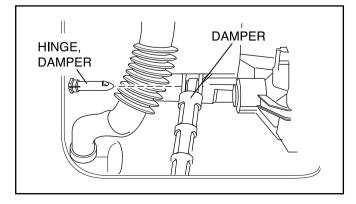
MOTOR/DAMPER



- 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.

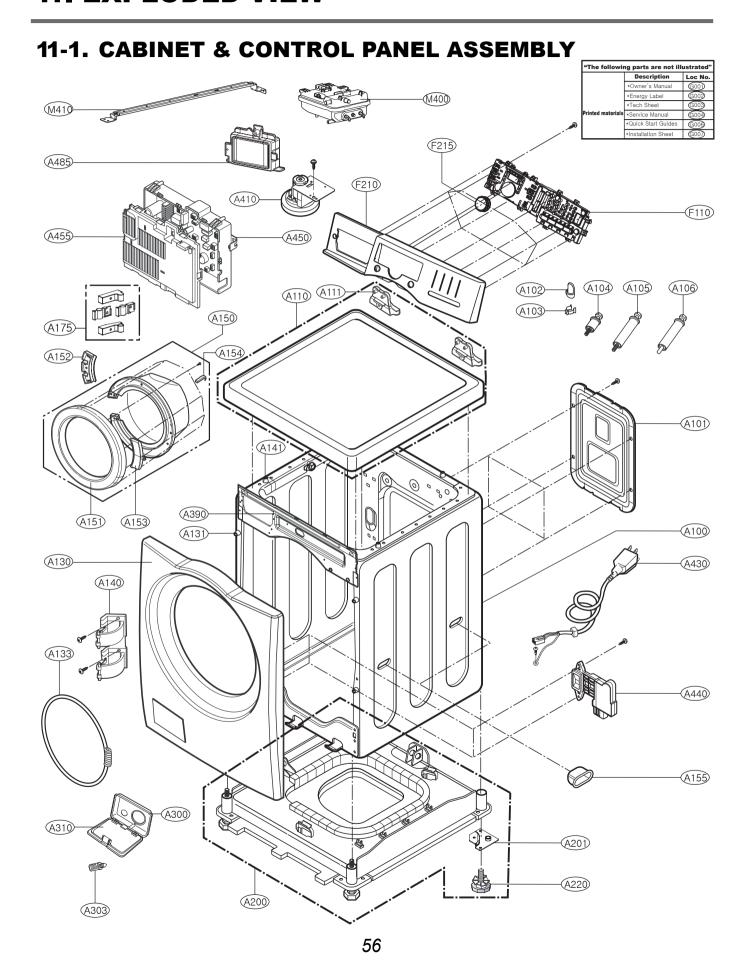


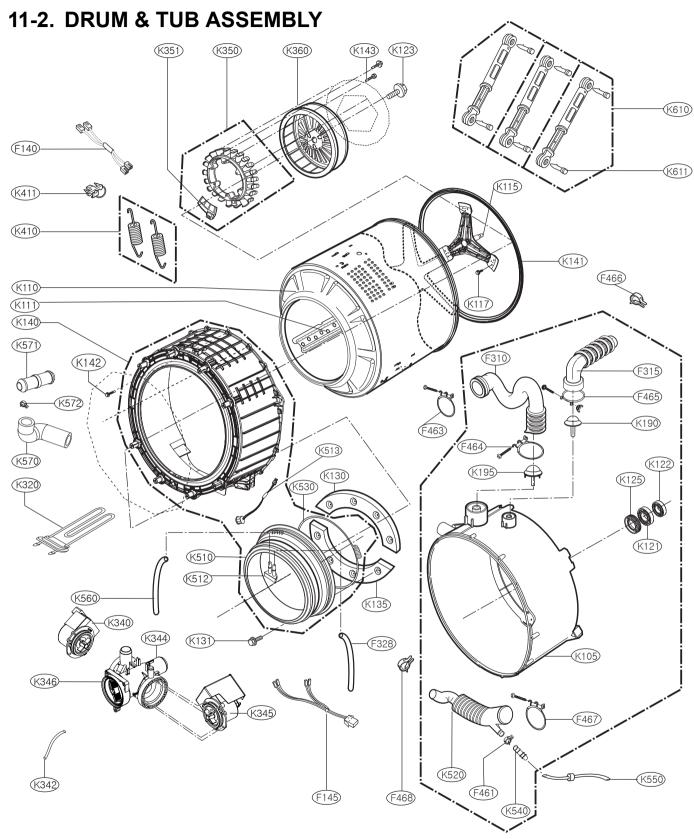
① Disassemble the damper hinges from the tub and base.

*** 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





^{*} 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

