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WASHING MACHINE SERVICE MANUAL

CAUTION

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

MODEL: WM2077CW*



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1. SPECIFICATIONS

ITEM		WM2677H*M	WM2277H*	WM2177H*	WM2077CW							
COLO	R	W: BLUE WHITE, B: BLACK PEARL, S: TITANIUM										
POWER SUP	PLY	AC 120 V, 60 Hz										
PRODUCT W	/EIGHT	190 lbs. (86 kg)										
ELECTRIC POWER	WASHING	280 W										
CONSUMTION	DRAIN MOTOR	80 W										
	WASH HEATER	1000 W –										
DEVOLUTION ODEED	WASH		•	42 rpm								
REVOLUTION SPEED	SPIN	0-1320 rpm	0-1100	0-1000 rpm								
CYCLE	S	9		7	-							
WASH/RINSE TEMP	ERATURES			5								
SPIN SPEE	DS	5										
OPTIONS	3	Prewash, Stain Cycle, Quick Cycle, Extra Rinse, Rinse+Spin, Delay Wash										
CUSTOM PRO	GRAM	Incorporated										
WATER CIRCUI	_ATION	Incorporated –										
OPERATIONAL WAT	ER PRESSURE	4.5-145 psi (30-1000 kPa)										
CONTROL T	YPE	Electronic										
WASH CAPACITY	/ [cu. ft.]	3.32 (3.83 IEC)	C) 3.22 (3.72 IEC)									
DIMENSION	NS	27" (W) X 29 ³ / ₄ " (D) X 38 ¹¹ / ₁₆ " (H), 50 ¹³ / ₁₆ " (D, door open)										
DELAY WAS	SH	up to 19 hours	up to 12 hours up to 9									
DOOR SWITCH	TYPE	PTC + Solenoid										
WATER LEV	'EL	10 steps (by sensor)										
LAUNDRY LOAD S	SENSING	Incorporated										
ERROR DIAGN	IOSIS	Incorporated										
AUTO POWER	OFF	Incorporated										
CHILD LOC	CK	Incorporated										
RLM ENAB	LE	Incorporated –										
			l .									

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

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

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

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.



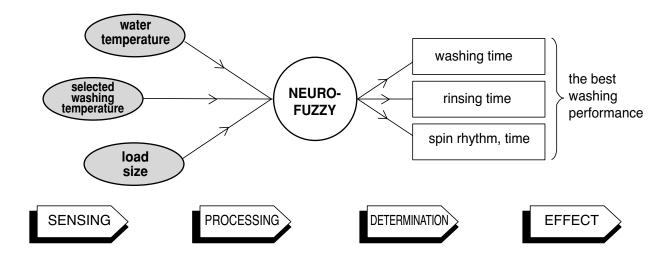
■ Using the RLM (Remote Laundry Monitor)

The RLM monitors status of your washer and/or dryer. You can plug the display unit into any power outlet in your home.

The RLM Display Unit can be purchased separately for this washer.

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. 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)

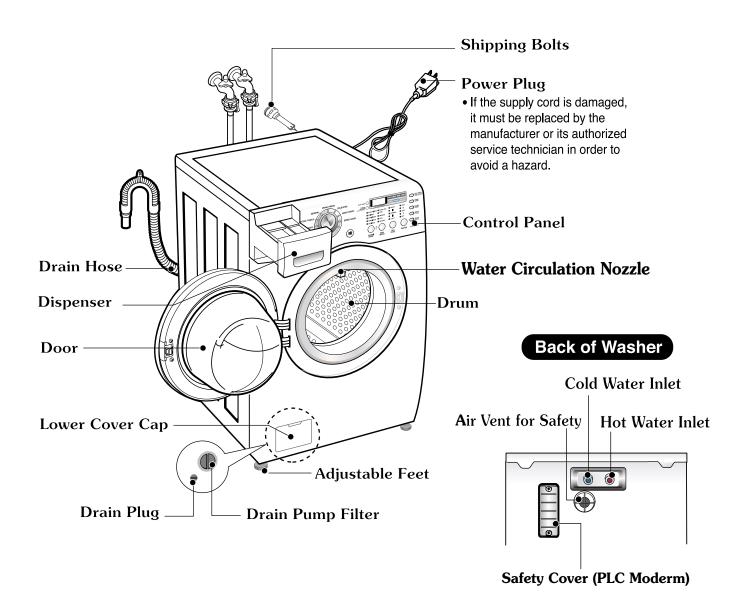
2-7. CHILD LOCK

- 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 ⑩ button. You can lock the washer while it is operating.

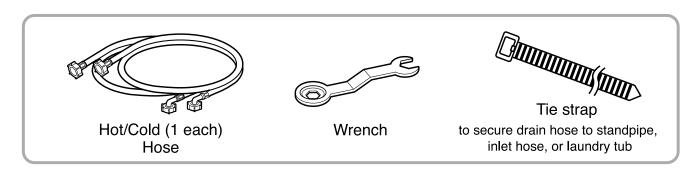
2-8. WATER CIRCULATION

- 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 at first rinse.

3. PARTS IDENTIFICATION



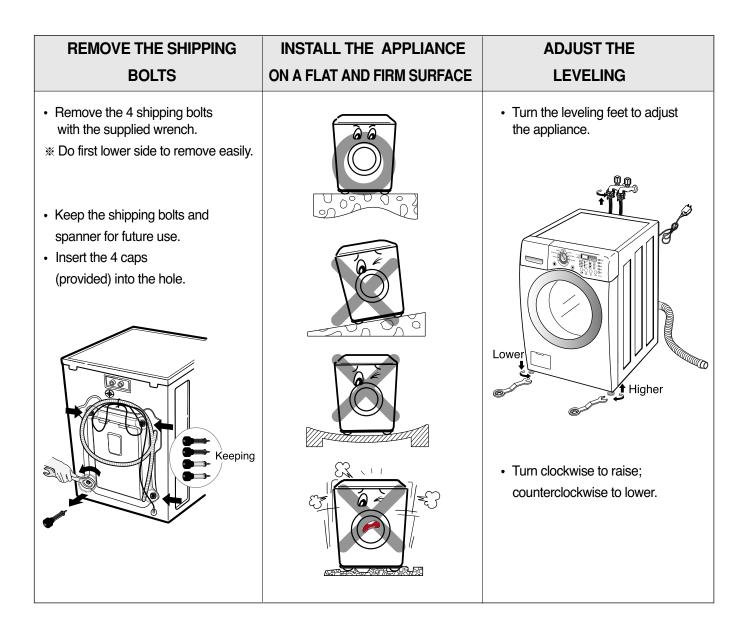
ACCESSORIES



4. INSTALLATION & TEST

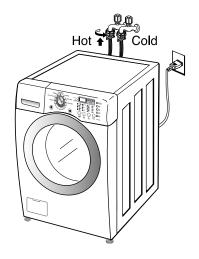
- 1 Before servicing, ask the customer what the trouble is.
- 2 Check the setup (power supply is 120 V AC, remove the transit bolts....).
- 3 Check with the troubleshooting guide.
- 4 Plan your service method by referring to the disassembly instructions.
- 5 Service the unit.
- 6 After servicing, operate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

The appliance should be installed as follows:

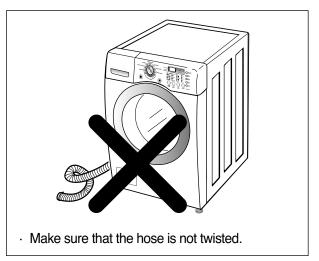


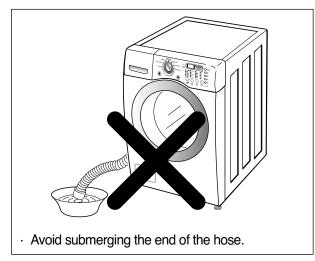
■ HOW TO CONNECT THE INLET HOSE

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



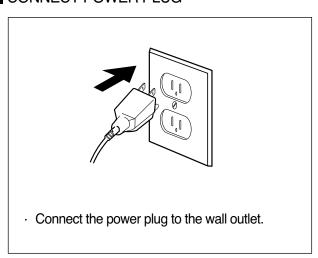
■ CONNECT THE DRAIN HOSE

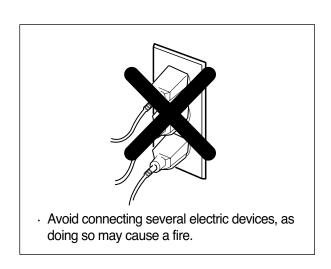




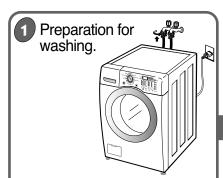
* The end of the drain hose should be placed less than 96" from the floor.

■ CONNECT POWER PLUG



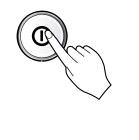


7 TEST OPERATION



- Connect the power plug to the outlet.
- · Connect the inlet hoses.

Press the POWER button.



Press the Start/Pause button.



· Listen for a click to determine if the door has locked.

Check the water heating function.

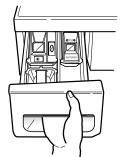


• Press the WASH/RINSE button and the present temperature will be displayed.

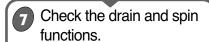
Check the automatic reverse rotation.



· Check if the drum rotates clockwise and counterclockwise. Check the water supply.



· Check if water is supplied through the detergent dispenser.



PROCESS WASH

RINSE

SPIN

- 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.

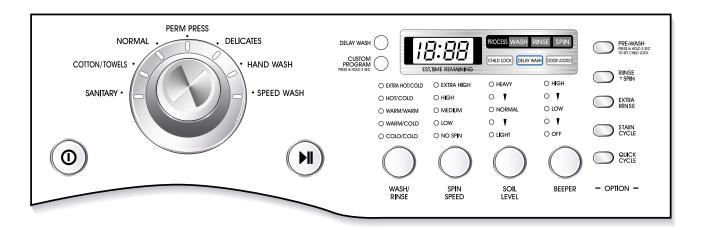
Water removal



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

5. OPERATION

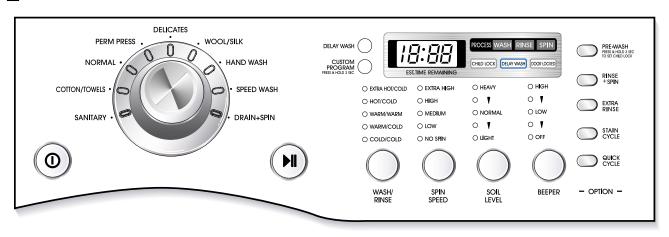
■ WM2277H*/WM2177H*



WM2077CW



■ WM2677H*M



POWER button

 Use this button to turn the power On/Off.

EST.TIME REMAINING

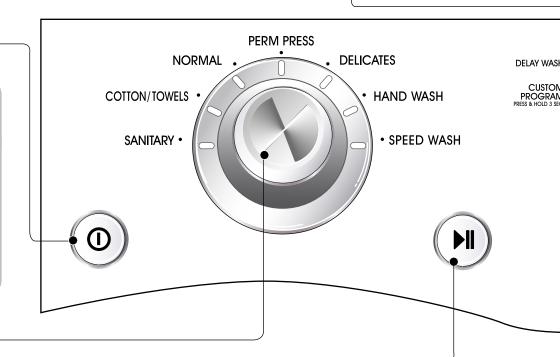
- · This display shows:
- a) the estimated time remaining in the cycle when operating.
- b) an error code when an error has been detected.

• CHILD LOCK

- Use this option to prevent Press and hold PRE WAS lock/unlock control.
- When Child lock is set, Ch buttons are disabled exce can lock the washer while

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** (*).

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ent unwanted use of the washer.
ASH button for 3 seconds to

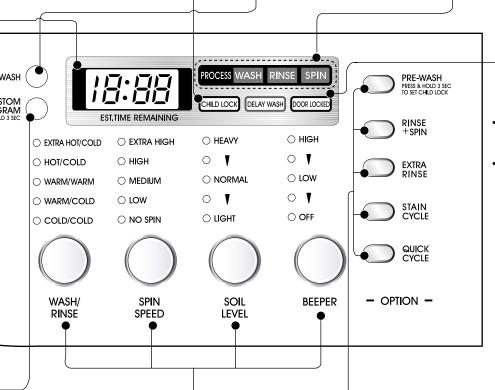
CHILD LOCK lights and all compared the Pow button. You nile it is operating.

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 button to stop the washer.

WASH/RINSE temp., SPIN SPEED, SOIL LEVEL, BEEPER button

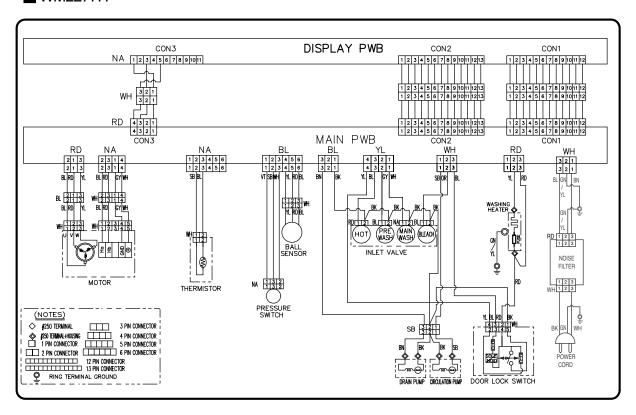
- Select a water temperature based on the type of load you are washing.
- To change the spin speed, press the Spin Speed button repeatedly to cycle through available options.
- To change the soil level, press the Soil Level button repeatedly until the desired setting is on.
- Press repetedly to adjust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

OPTION button

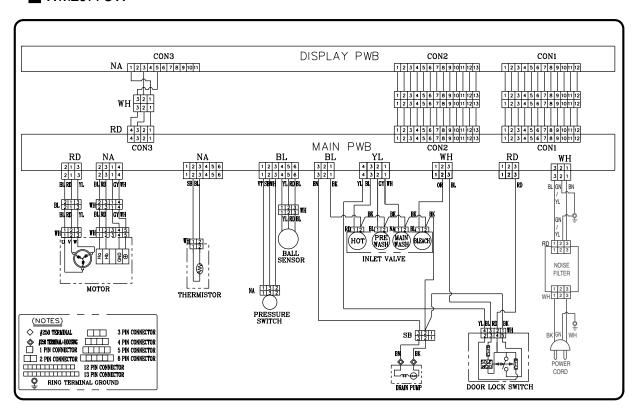
- Prewash: Use this option for loads that need pretreatment. It adds 16 minutes prewash and drain.
- Rinse+Spin: Use this option to rinse and then spin.
- Extra Rinse: This option provides an additional rinse cycle.
- Stain Cycle: Adds time to the wash and rinse cycles for better stain removal. Automatically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

6. WIRING DIAGRAM/PROGRAM CHART

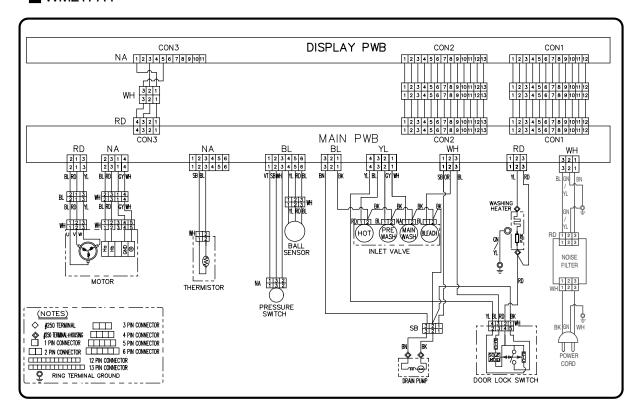
■ WM2277H*



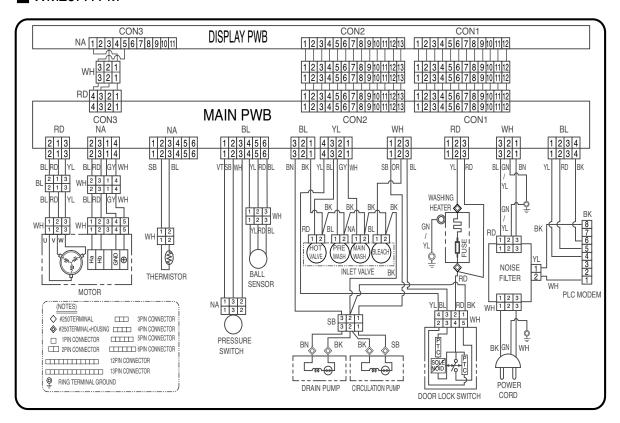
WM2077CW



■ WM2177H*



■ WM2677H*M



PROGRAM CHART							* Water Supply: W-S * Intermittent Spin: I-S										3	* Disenta			anç	angle: D-T											
	Wash							Rinse															Spin			Α							
		Pre			Main					Normal							Ext	ra oı	Extra & Stain					PIN		 │_	U						
11/2/						Wa	ash	Cod	ol-do	wn		1				2				3				3						E	Ö	**Appro	ox.
CS/C	w s	Wash	Drain	<u>-</u> s	W - S	Heat	Wash	W S	Rinse	Drain	Drain	<u>-</u>	w - s	Rinse	Drain	- I s	W - s	Rinse	Drain	<u>-</u> s	W S	Rinse	Drain	<u>-</u> s	W - S	Rinse	Drain	Spin	D T	D	O F F	Worki Time (Minute	ing e
U E E	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		17	18	19	20	21	22	23	24	25	26	27	28	29	20	20	(IVIIII LEE	55)
S Time	60	*	60	300	60		*	60	60	60	60	360	60	240	60			240	60	300	60	240	60	300	60	240	60	360 ~ 660	60 ~ 180	20	20		
Sanitary		8	-	-			60 67		TIMI									H			*******											105	5
Cotton		8		<u> </u>			13		<u> </u>												******											58	 3
/Towels		8					20 12	\leq	$\overline{}$	\geq																			L			57	
Normal	_	8					19	\leq	$\overline{}$	\geq																	尸		\blacksquare		\blacksquare		
Perm Press	******						18		\simeq																							55	5
Delicates	-	8	-				14		><	<														>	<	<	⊢		_	┢	┢	34	4
Wool /Silk		\geq	<				13		><														\leq	\geq	<							34	1
Hand Wash		>	<	< (14		\times	<												-		>	<	<	┢		┢	┢	┢	34	4
Speed Wash		>	<	$\overline{}$			8		><					120				120				120	\leq	>	<	~						30)
Drain+Spin	vrain+Spin								12	2																							
Wash + Rinse		8					19		><																				\geq	$\overline{<}$	<u> </u>	45	 5
Rinse + Spin						<u> </u>	=																	\geq	\leq							29	9

Basic Cycle
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.

7. TROUBLESHOOTING

7-1. BEFORE PERFORMING SERVICE

- Be careful of electric shock when disconnecting parts while troubleshooting.
- The voltage of each terminal is 110/120 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 (10) 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.	(8:88 ¹⁾
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	Tumble counterclockwise.	rpm (40~50)
9 times	Heater turns on for 3 sec.	Water temperature
10 times	Circulation pump turns on.	Water level frequency (25~65)
11 times	Drain pump turns on.	Water level frequency (25~65)
12 times	Power off and unlock the door.	Turn off all lamps.

^{1) (}F:E:): WM2277H*/WM2177H*

() S : S (S) : WM2077CW

(;**;** ; **;** ; : WM2677H*M

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

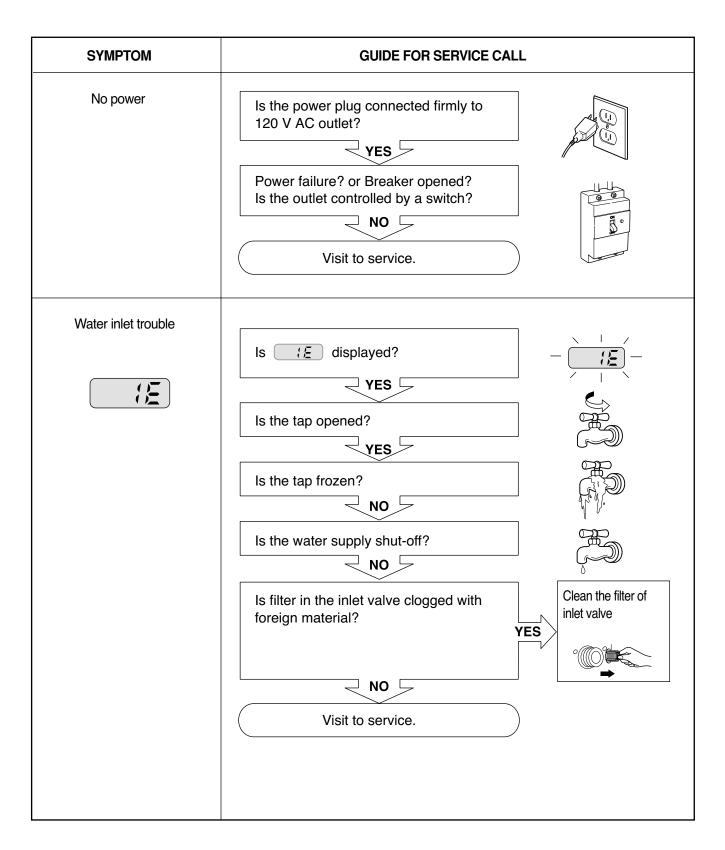
- If you press the START/PAUSE button when an error is displayed, any error except "PE" will disappear and the machine will go into the pause status.
- In case of $\[\[\] \mathcal{F} \mathcal{E} \] \]$, $\[\] \mathcal{E} \mathcal{E} \]$ if the error is not resolved within 20 sec., or the in case of other 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 $\[\] \mathcal{F} \mathcal{E} \]$, power will not be turned off.

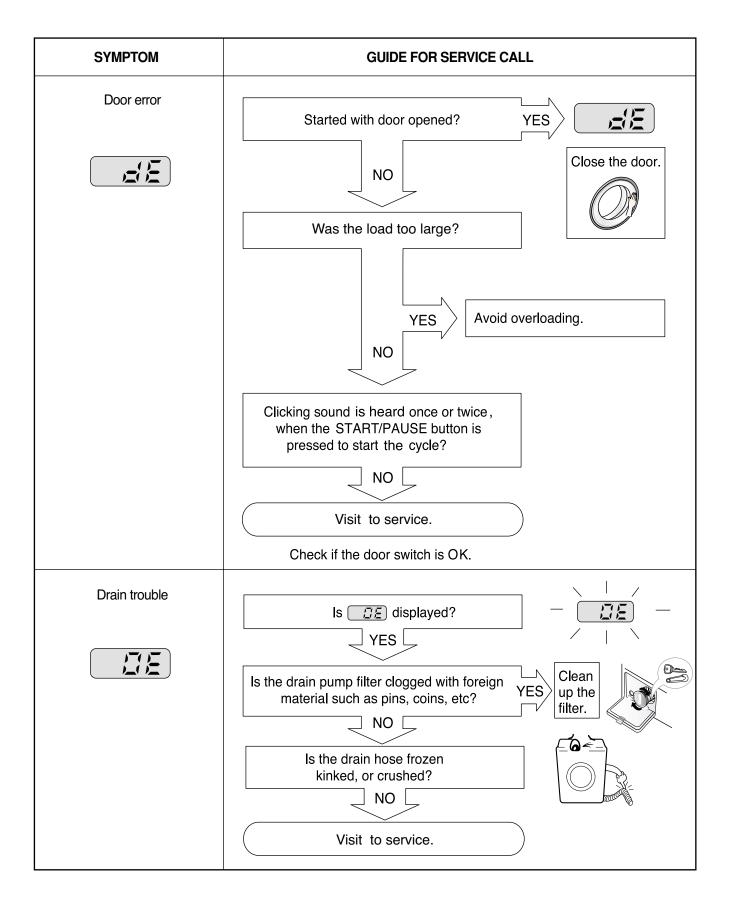
	T		
	ERROR	SYMPTOM	CAUSE
1	WATER INLET ERROR	:E	Correct water level (246) is not reached within 8 minutes after water is supplied or it does not reach the preset water level within 25 minutes.
2	IMBALANCE ERROR		 The load is too small. The appliance is tilted. Laundry is gathered to one side. Non distributable things are put into the drum.
3	DRAIN ERROR		Not fully drained within 10 minutes.
4	OVER FLOW ERROR	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 SENSOR ERROR	FE	• The SENSOR SWITCH ASSEMBLY is out of order.
6	DOOR OPEN ERROR	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	E	• The THERMISTOR is out order.

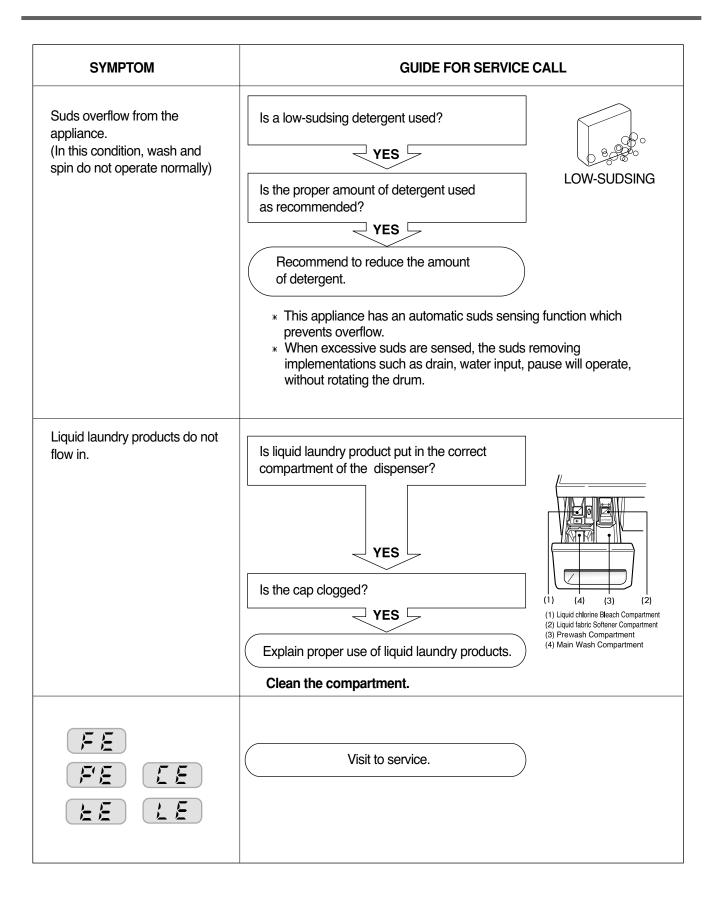
	ERROR	SYMPTOM	CAUSE
8	OVER CURRENT ERROR		MAIN PWB ASSEMBLY is out of order. Winding in the STATOR ASSEMBLY is short-circuited.
9	LOCKED MOTOR ERROR	LE	 The connector (3-pin, male, white) in the MOTOR HARNESS is not connected to the connector (3-pin, female, white) of STATOR ASSEMBLY. The electric contact 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.
10	BALL SENSOR ERROR	5 E	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	EE	EEPROM is out of order. Displayed only when the START/PAUSE button is first pressed in the QC Test Mode.
12	POWER FAILURE	FF	• The washer experienced a power failure.

8. ERROR DIAGNOSIS AND CHECK LIST

8-1. DIAGNOSIS AND SOLUTION FOR ABNORMAL OPERATION



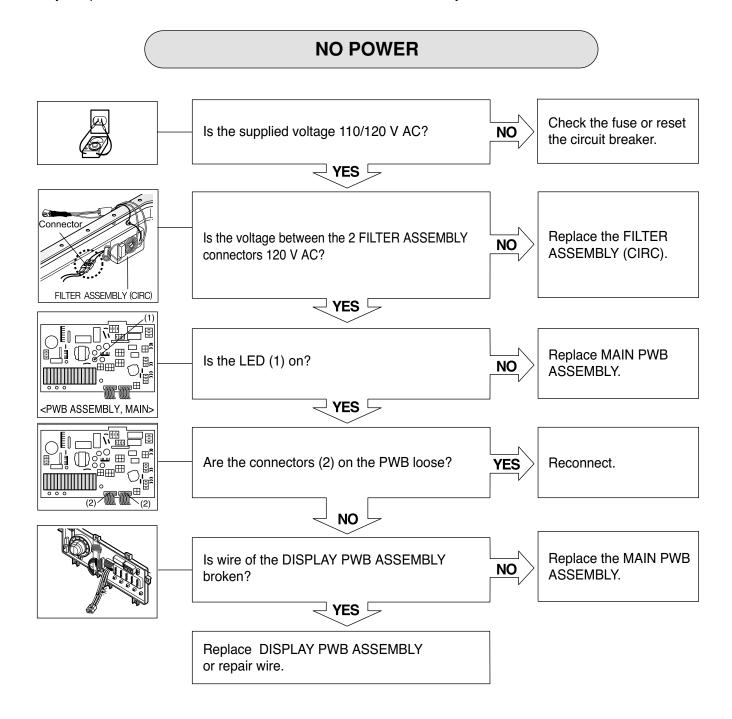




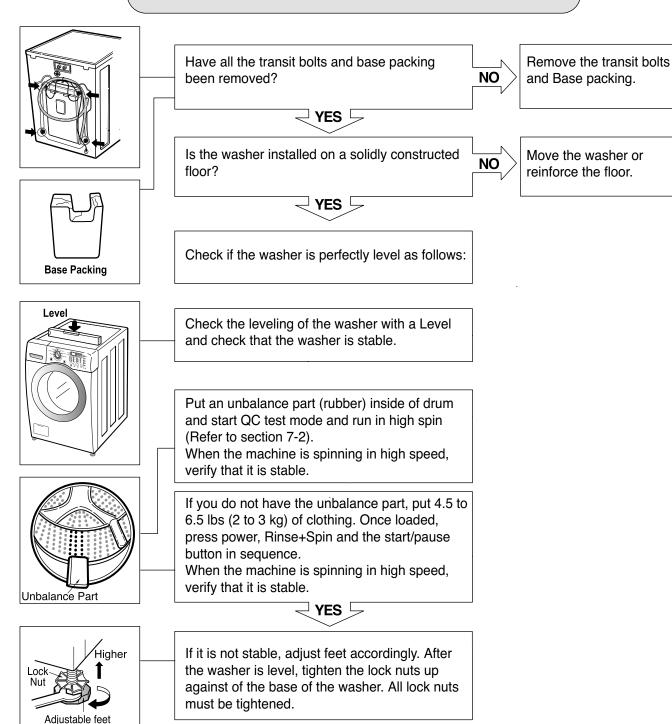
8-2. FAULT DIAGNOSIS AND TROUBLESHOOTING

▲ 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.



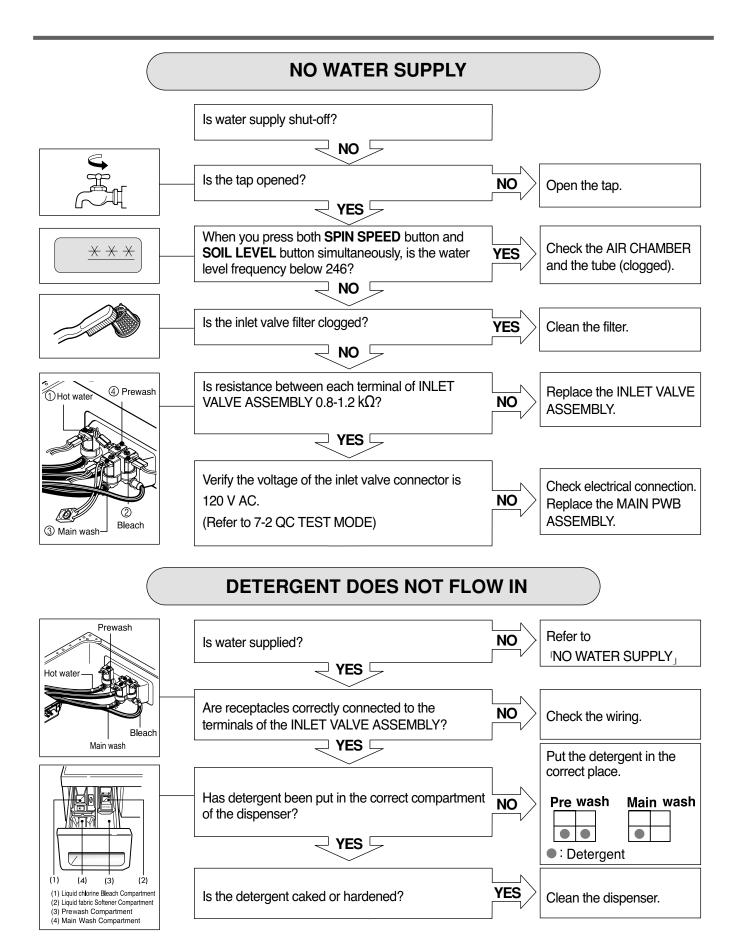
VIBRATION & NOISE IN SPIN



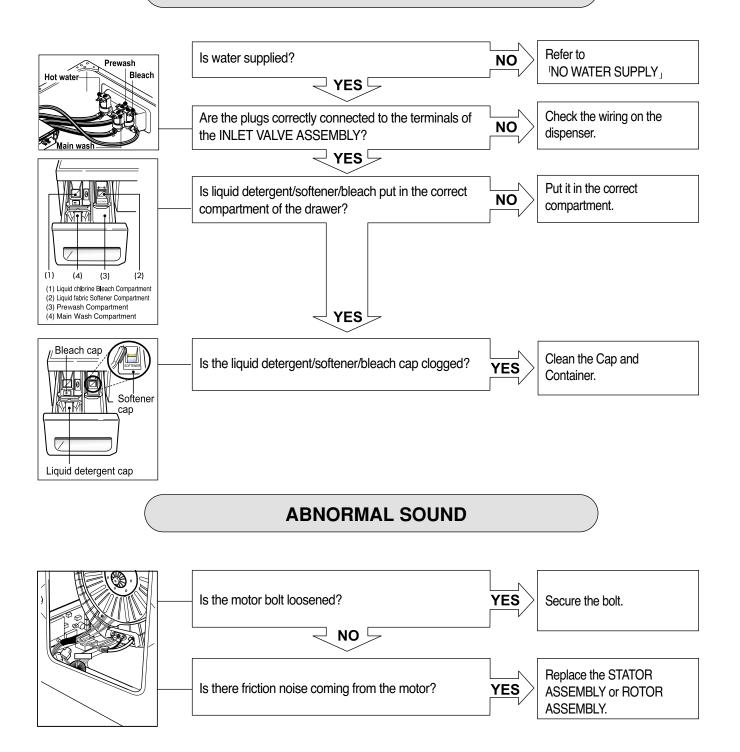
Adjustable feet

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

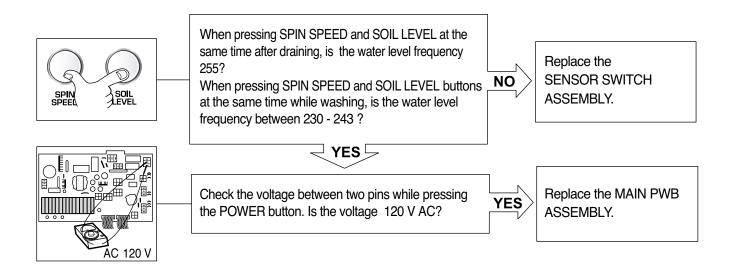
- 1) Put an unbalance part (rubber) inside of the drum.
- 2) Start the QC test mode (Refer to section 7-2).
- 3) Press Delay Wash button, then ' \(\frac{1}{2} \frac{1}{2} \) is displayed.
- 4) Press the Spin Speed button repeatedly to select Extra High.
- 5) Press the Quick Cycle button, the spin speed is displayed.
- 6) Press the Start/Pause button.
- 7) Press the Beeper 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 Beeper 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).



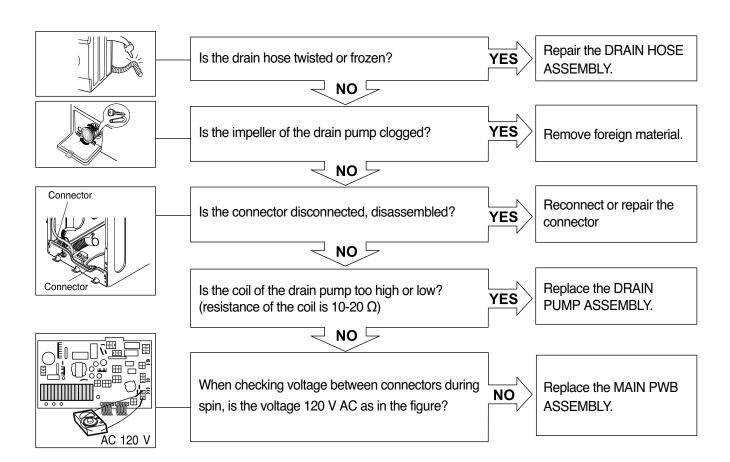
(LIQUID DETERGENT/SOFTENER/BLEACH DOES NOT FLOW IN)



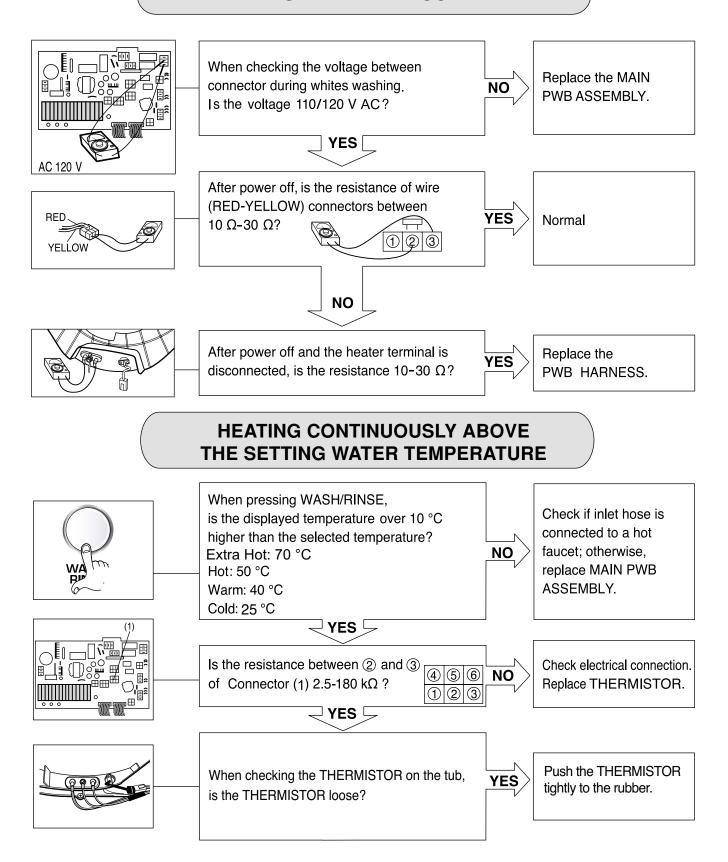
HEATING WITHOUT WATER



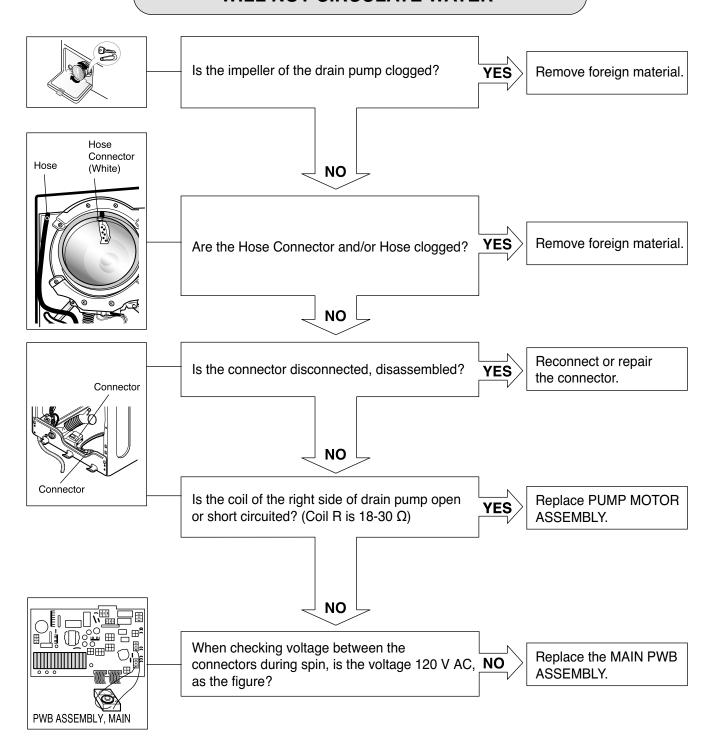
DRAIN MALFUNCTION

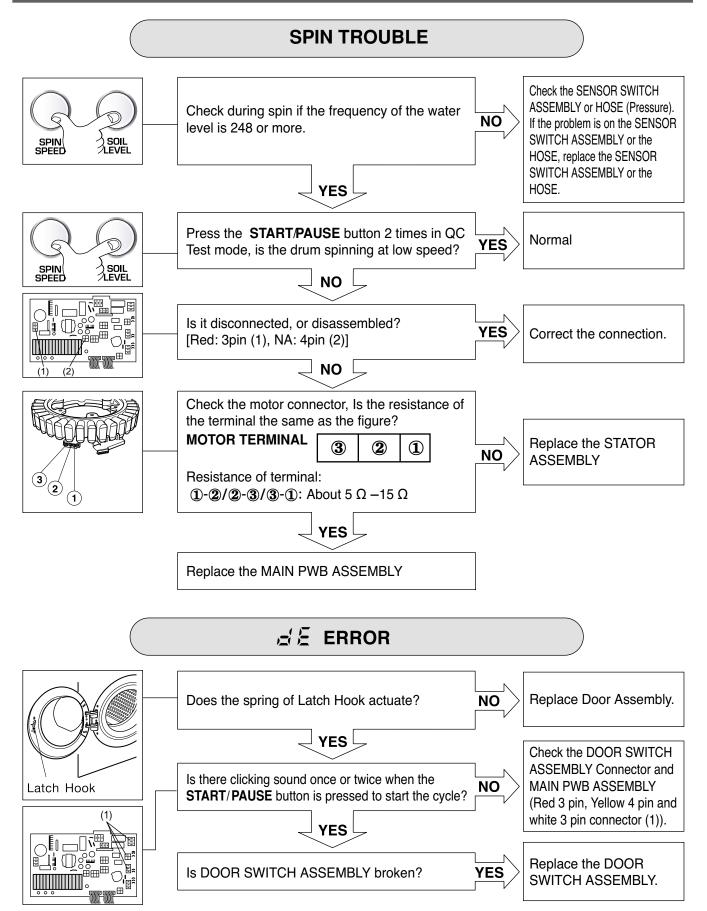


WASH HEATER TROUBLE



WILL NOT CIRCULATE WATER

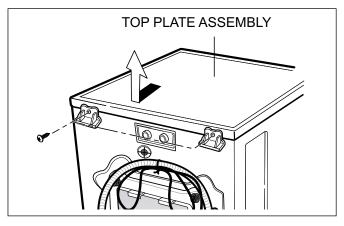




9. DISASSEMBLY INSTRUCTIONS

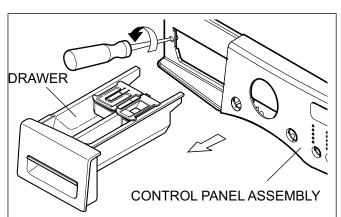
* Be sure to unplug the machine out of the outlet before disassembling and repairing the parts.

CONTROL PANEL ASSEMBLY



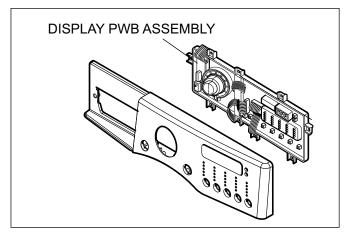
- ① Unscrew 2 screws on the back of the top plate.
- ② Pull the top plate backward and upward as shown.





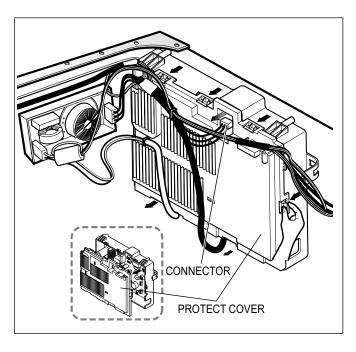
- ③ Disconnect the Display PWB Assembly connector from Trans cable.
- ④ Pull out the drawer and unscrew 2 screws.
- ⑤ Lift the left side of the Control Panel Assembly and pull it out.



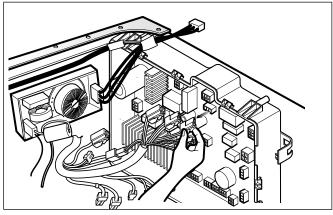


- **(6)** Unscrew the 9 screws from the Control Panel Assembly.
- ⑦ Disassemble the Display PWB Assembly.

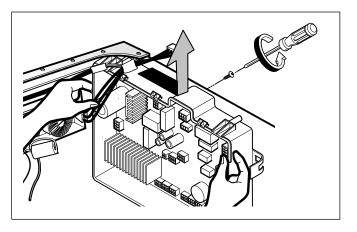
MAIN PWB ASSEMBLY



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

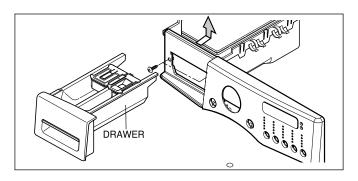


③ Disconnect the connectors.

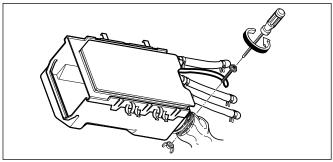


- ④ Unscrew 1 screw on the back.
- ⑤ Disassemble the Main PWB.

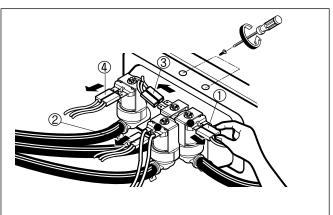
DISPENSER ASSEMBLY



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

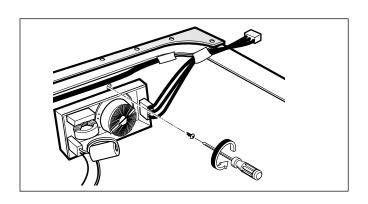


4 Unscrew the nut at the lower part of the dispenser.



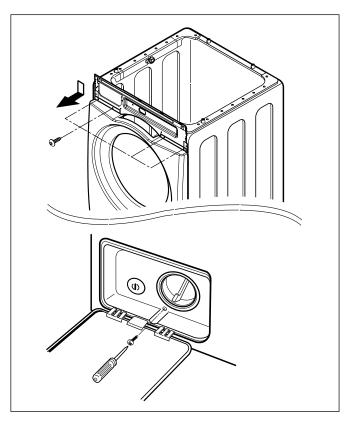
- ⑤ Disassemble the 4 connectors from the valves.
 - Wire Color
 - ① Blue Housing (OR-BK)
 - ② White Housing (WH-BK)
 - ③ Blue Housing (GY-BK)
 - ④ Red Housing (BL-BK)
- (6) Unscrew 2 screws from the back of the cabinet.

NOISE FILTER

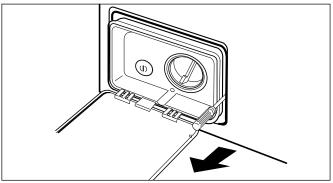


- ① Disassemble two (or three) connectors from the NOISE FILTER.
- ② Unscrew a screw from the TOP BRACKET.

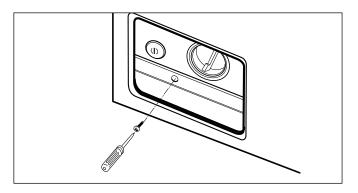
CABINET COVER



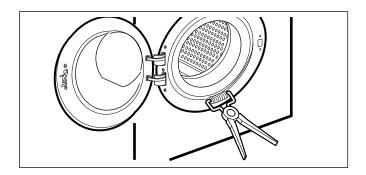
- ① Unscrew the 4 screws from upper of the canbinet cover.
- ② Unscrew the screw from filter cover.



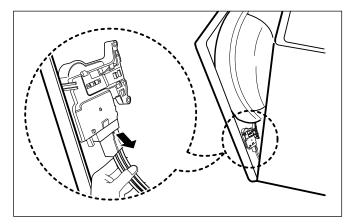
③ Put a flat (–) screwdriver or putty knife into the both sides of the filter cover, and pull it out.



 $\ensuremath{\textcircled{4}}$ Unscrew the screw from the lower side of the cabinet cover.

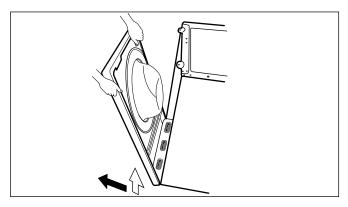


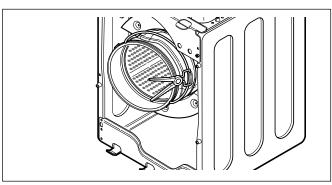
- $\ensuremath{\textcircled{5}}$ Open the door.
- ⑥ Disassemble the clamp assembly.



- $\ensuremath{ \bigcirc }$ Tilt the cabinet cover.
- (§) Disconnect the door switch connector.

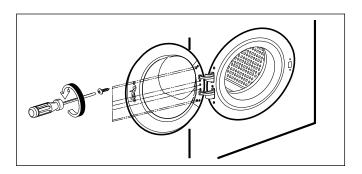
** NOTE: When assembling the CABINET COVER, connect the connector.



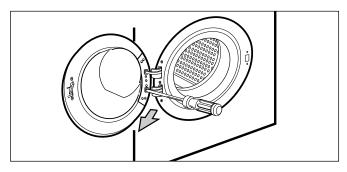


- ${\scriptsize \textcircled{\tiny 10}}$ Disassemble the clamp assembly.
- ① Disassemble the Gasket.

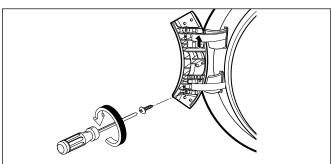
DOOR



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

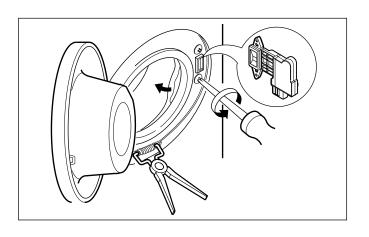


③ Put a flat (-) screwdriver into the opening of the hinge, and pull out the hinge cover.



- 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

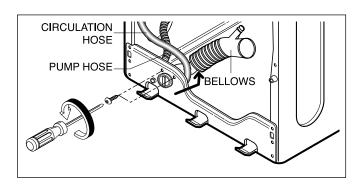


- ① Open the door and disassemble the CLAMP ASSEMBLY.
- ② Unscrew the 2 screws.

*** NOTE**

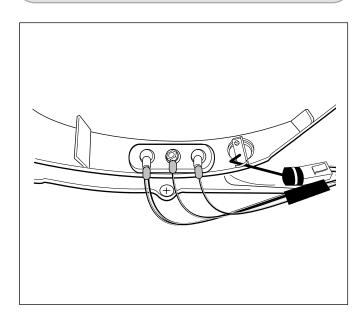
• Reconnect the connector after replacing the DOOR SWITCH ASSEMBLY.

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

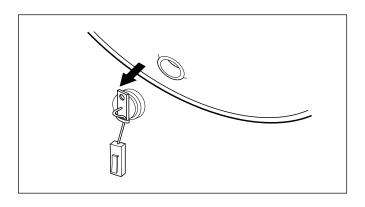


- ① Disassemble the cabinet cover.
- ② Separate 2 connectors from the heater.
- 3 Loosen the nut and pull out the heater.

*** CAUTION**

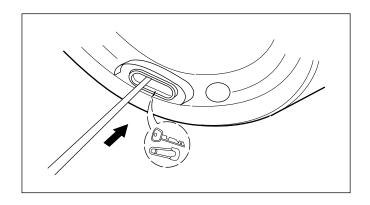
- When assembling the heater, insert the heater into the heater clip on the bottom of the tub.
- Tighten the fastening nut so the heater is secure.

THERMISTOR



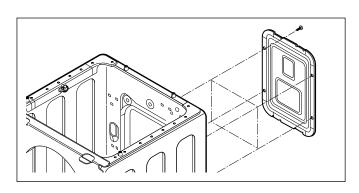
- ① Disassemble the cabinet cover.
- ② Unplug the white connector from the thermistor.
- ③ Pull it out by holding the bracket of the thermistor.

WHEN FOREIGN OBJECT IS STUCK BETWEEN DRUM AND TUB

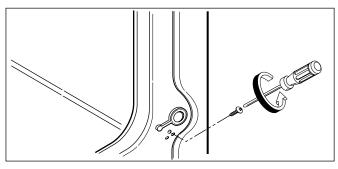


- ① Disassemble the cabinet cover.
- ② Separate the heater from the tub.
- ③ Remove any foreign objects (wire, coin, etc.) by inserting a long bar in the opening.

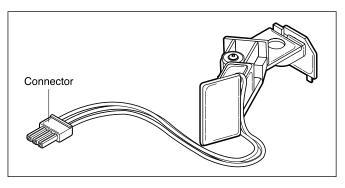
SENSOR ASSEMBLY (BALL SENSOR)



① Unscrew the 4 screws from the back cover.

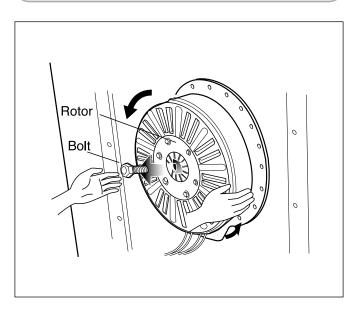


② Unscrew the single screw from the lower-right side of the cabinet.

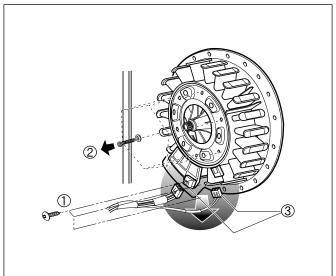


③ Disconnect the connector from PWB Harness.

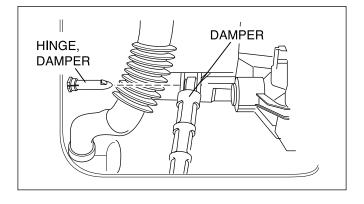
MOTOR/DAMPER



- 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.



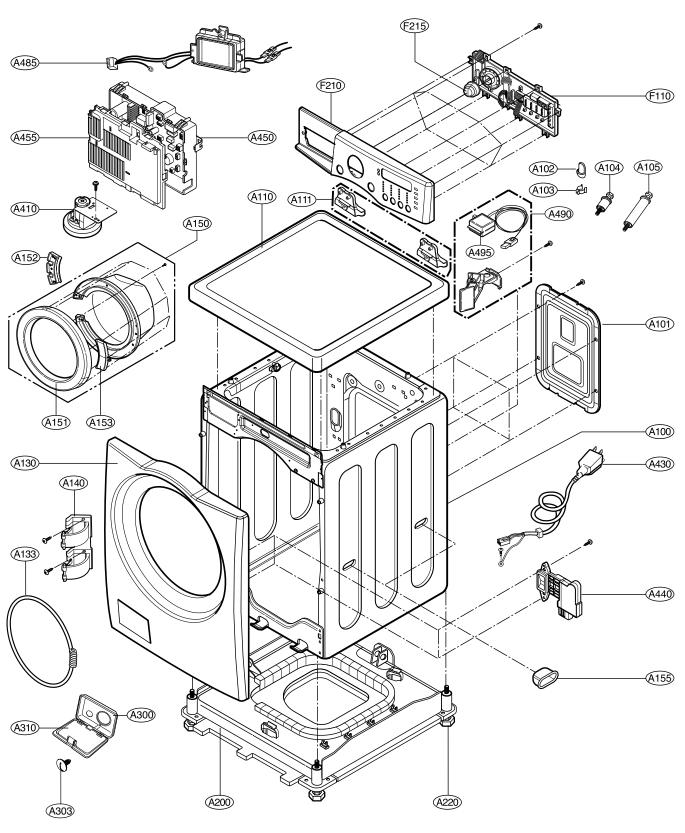
- ① Disassemble the damper hinges from the tub and base.
- ② Separate the dampers.

*** NOTE**

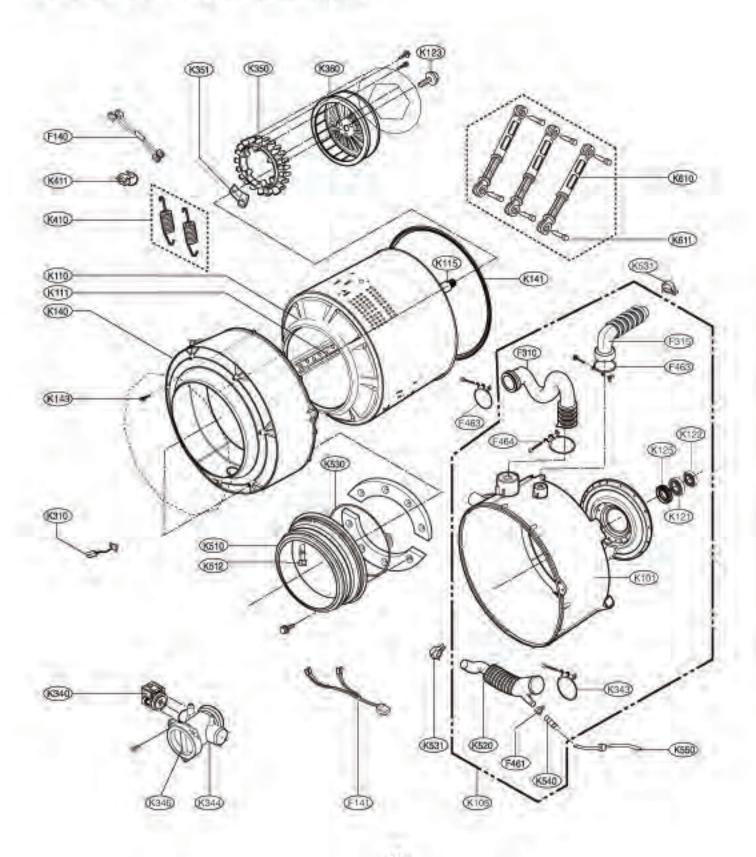
• Once removed, replace the damper pin with new one.

10. EXPLODED VIEW

10-1. CABINET & CONTROL PANEL ASSEMBLY



10-2. DRUM & TUB ASSEMBLY



10-3. DISPENSER ASSEMBLY

