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# WASHING MACHINE SERVICE MANUAL

### **A** CAUTION

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

MODEL: WD(M)-12320BD/WD(M)-12325BD



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# 1. SPECIFICATIONS

ITEM		WD(M)-12320BD/WD(M)-12325BD
COLOR		BLUE WHITE
POWER SUPP	LY	AC 220-240V~, 50Hz
PRODUCT WEIG	HT	76 kg
ELECTRIC POWER	WASHING	200 W
CONSUMTION	DRAIN MOTOR	37 W
	WASH HEATER	2200 W
	WASH	42 rpm
REVOLUTION SPEED	SPIN	1200 rpm
CYCLES		9
WASH/RINSE TEMP	ERATURES	5
SPIN SPEE	DS	5
OPTIONS	6	Bio, Soak, Pre Wash, Rinse+Spin, Spin Only
CUSTOM PRO	GRAM	Incorporated
WATER CIRCU	LATION	Incorporated
OPERATIONAL WAT	ER PRESSURE	30-1000 kPa
CONTROL T	YPE	Electronic
WASH CAPA	CITY	9 kg
DIMENSIO	NS	635 m(W) x 740 m(D) x 925 m(H)
DELAY WA	SH	From 3 hours to 19 hours
DOOR SWITCH	I TYPE	PTC + Solenoid
WATER LEV	/EL	10 steps (by sensor)
LAUNDRY LOAD	SENSING	Incorporated
ERROR DIAGN	NOSIS	Incorporated
AUTO POWER	ROFF	Incorporated
CHILD LO	CK	Incorporated

# 2. FEATURES & TECHNICAL EXPLANATION

# 2-1. FEATURES















# ■ Direct Drive System

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

# ■ Tilted Drum and Extra Large Door Opening

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

### ■ Water Circulation

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

### ■ RollerJets

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

### Automatic Wash Load Detection

Automatically detects the load and optimizes the washing time.

### ■ Built-in Heater

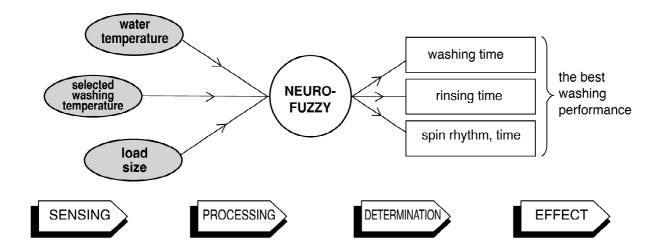
The internal heater automatically heats the water to the optimum temperature on selected cycles.

### ■ Child Lock

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

# 2-2. NEURO FUZZY WASHING TIME OPTIMIZATION

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



# 2-3. WATER LEVEL CONTROL

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

# 2-4. DOOR CONTROL

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

# 2-5. THE DOOR CAN NOT BE OPENED

- While program is operating
- When a power failed and power plug is taken out in operation
- While Door Lock lights turn on.
- 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)

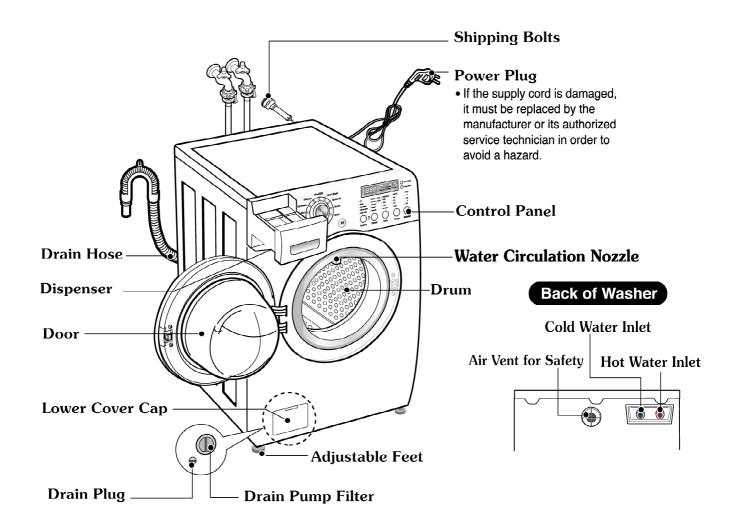
# 2-7. CHILD LOCK

- Use this option to prevent unwanted use of the washer. Press and hold Option and Rinse button for 3 seconds to lock/unlock control.
- When Child lock is set, CHILD LOCK lights and all buttons are disabled except the Power ⑤ button. You can lock the washer while it is operating.

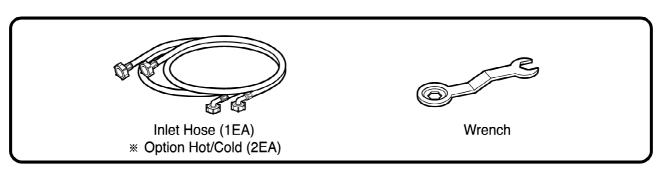
# 2-8. WATER CIRCULATION

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

# 3. PARTS IDENTIFICATION



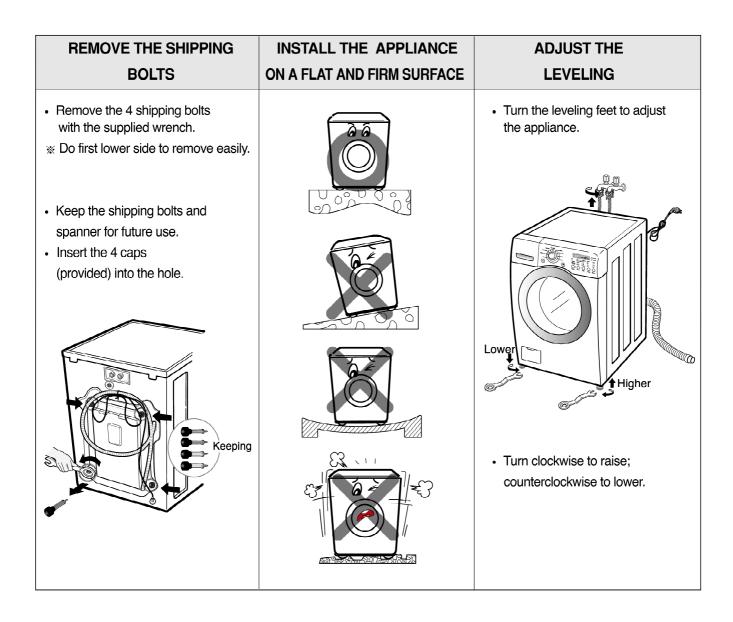
# ■ ACCESSORIES



# 4. INSTALLATION & TEST

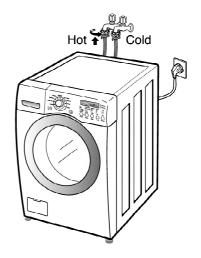
- 1 Before servicing, ask the customer what the trouble is.
- (2) Check the setup (power supply is 220-240V AC, remove the transit bolts....).
- 3 Check with the troubleshooting guide.
- 4 Plan your service method by referring to the disassembly instructions.
- 5 Service the unit.
- 6 After servicing, operate the appliance to see whether it functions correctly.
- **STANDARD INSTALLATION**

The appliance should be installed as follows:

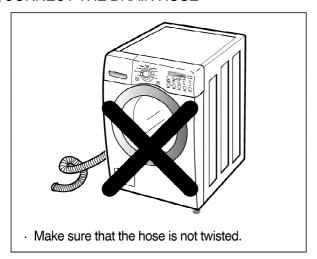


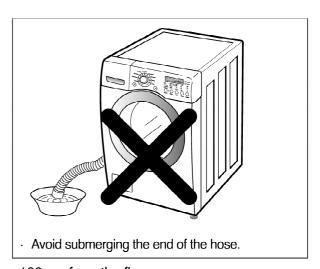
# ■ HOW TO CONNECT THE INLET HOSE

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



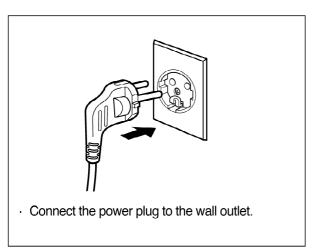
### **■ CONNECT THE DRAIN HOSE**

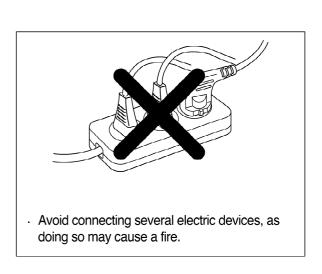




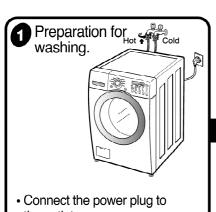
★ The end of the drain hose should be placed less than 100 cm from the floor.

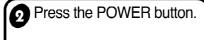
# **■ CONNECT POWER PLUG**





# **7 TEST OPERATION**



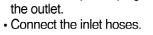




Press the START/PAUSE button.



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



Check the water heating function.



 Press the Temp. button and the present temperature will be displayed. Check the automatic reverse rotation.

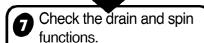


• Check if the drum rotates clockwise and counterclockwise.

Check the water supply.



 Check if water is supplied through the detergent dispenser.



# Pre Wash Wash Rinse Spin

### Processing

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

Press the START/PAUSE button.

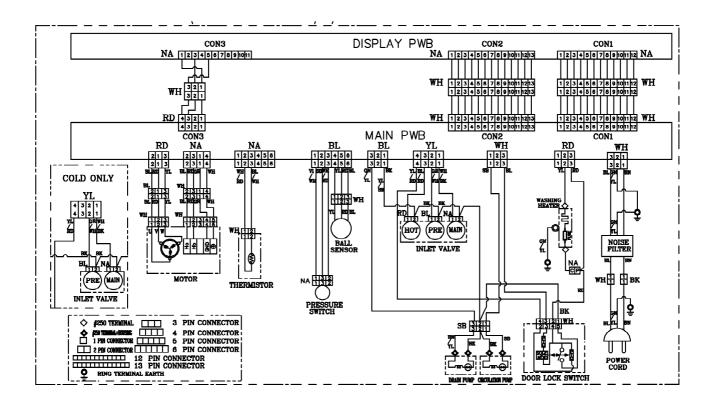


 Listen for a click to determine if the door is unlocking. Water removal



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

# 5. WIRING DIAGRAM/PROGRAM CHART



PR	OGRA	AM CHART								* Water Supply: W·S * Intermittent Spin: I												·s	* Disentangle : D·T											
<b>√</b> c	C Washing					Rinse												Spin			Α													
//	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		P	re			Main				Normal							Extra or Stain					Extra & Stain					_	ΙE	ľ				
			≤	l _	_	$\frac{1}{2}$	Wa	shing			ling			1		2			3			3			_			N	О	Normal				
c/	S\_E	w s	Washing	Drain	I   S	s S	Heating	Washing	W S	Rinsing	Drain	Drain	- s	⊗ · S	Rinsing	Drain	s	<b>∀</b> ∙ Տ	Rinsing	Drain	-   S	<b>⊗</b> ∙ თ	Rinsing	Drain	i s	<b>∀</b> ∙ თ	Rinsing	Drain	Spin	D·Τ	D	O F F	Working Time (Hour:Minute)	
	\ \ P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	20	20	(Frode invitato)	
URSE	Time (SEC)	60	MIN	60	300	60		MIN	60	60	60	60	300	60	240	60	300	60	240	60	300	60	240	60	300	60	240	60	120 ~ 540	120	20	20		
С	Cotton	****	8.	*****	****			66	2	TIME	s									****	****	*****		*****	CKKKKK	XXXXX	KKKKK	_			-		About 2:33	
Sy	nthetic		8	*****		-	F	19							H	H	H		H		KKKKK				CERRE	****	KKKKK	H	F		F	H	About 1:38	
De	elicate		. 8					17		><	<										****					****					F		About 59	
W	ool/Silk	EKKKK	8	KKKKK	KKKKK			13	$/\setminus$	$\sim$	/		KKKKKK				KKKKK			KKKKK	KKKKK	KKKKK	KKKKK	$V\setminus V$	$\geq$	$\overline{}$	$\overline{}$						About 53	
Han	nd Wash	*****	8.	*****	****			13		><	$\leq$		KKKKK				CKKKKK			XXXXX	KKKK	*****	*****		$\geq$	$\leq$	$\leq$						About 51	
Qu	iick 30		8	*****	*****			7		<u>~</u>	$\leq$		KKKKK		120		*****		120		****	KKKKK	120	$/ \setminus$	$\geq$	$\leq$	$\leq$						About 30	
D	uvet		. 8					17		>	$\leq$										*****					XXXXX							About 1:24	
	Spin																		vvvv	*****	*****		$\geq$	$\leq$	$\leq$			$\geq$	$\leq$	$\leq$	About 13			
	Orain											About 1																						

Basic Cycle

<sup>\*</sup> Optional Cycle

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

<sup>\*</sup> Basic time is minute in washing chart.
\* The actual program time can be varied with the load amount, water temperature or ambient temperature.

# 6. OPERATION

# • POWER button

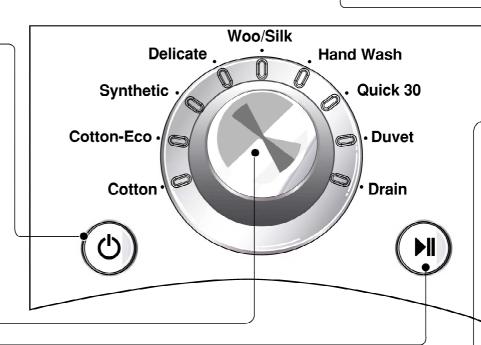
 Use this button to turn the power On/Off.

# • EST.TIME REMAINING

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

# 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.

# • CHILD LOCK

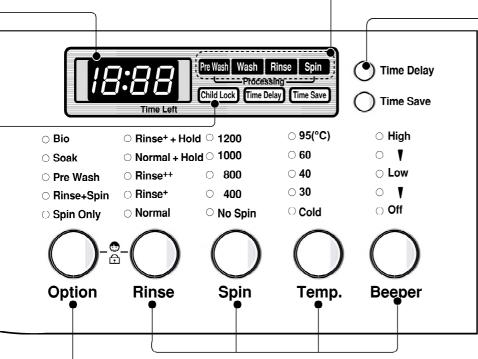
- Use this option to prevent unwanted use of the washer. Press and hold **Option** and **Rinse** button for 3 seconds to lock/unlock control.
- When Child lock is set, CHILD LOCK lights and all buttons are disabled except the Power (b) button. You can lock the washer while it is operating.

# • STATUS INDICATOR

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

# • TIME DELAY

 Allows the start of any cycle to be delayed for 3~19 hours.



# 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.

# OPTION button

- **Pre Wash**: Use this option for loads that need pretreatment. It add 17 minutes prewash and drain.
- Rinse+Spin: Use this option to rinse and then spin.
- · Spin Only: If you want Spin Only Select the this option.
- Soak: Use this mode to wash normal clothes or thick and heavy clothes which are excessively dirty
- Bio: If you want to elimenate protein stains(milk, blood, chocolate...), you may select Bio by pressing the option button.[You can select Bio when temperature is higher than 60° C in Cotton, Cotton-Eco and Synthetic.]

# RINSE, SPIN, TEMP. and BEEPER For Manual

- Use these button to change Rinse/Spin/Temp./Beeper
- When lamp is off, no selection has been mode.
- Pre Wash and Soak available for Cotton, Cotton-Eco and Synthetic.

# 7. TROUBLESHOOTING

# 7-1. BEFORE PERFORMING SERVICE

- Be careful of electric shock when disconnecting parts while troubleshooting.
- The voltage of each terminal is 220-240V 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 Option and Spin buttons simultaneously.
- 2. Press the Power (b) 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.	(8:83)					
1 time	Tumble clockwise.	rpm (40~50)					
2 times	Low speed Spin.	rpm (58~65)					
3 times	High speed Spin.	rpm (100~120)					
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.					

# 7-3. HOW TO CHECK THE WATER LEVEL FREQUENCY

\* Press the Spin and Rinse 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

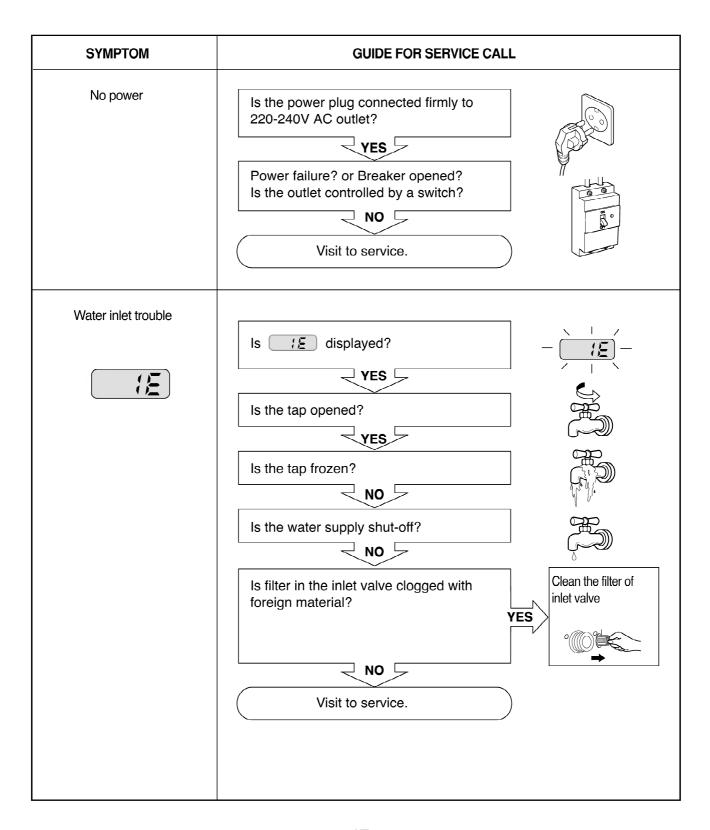
- If you press the START/PAUSE button when an error is displayed, any error except  ${}^{\mathbb{F}}PE_{\perp}$  will disappear and the machine will go into the pause status.
- In case of <code>FPE</code> <code>\_, FLE</code> <code>\_, FAE</code> if the error is not resolved within 20 sec., or the in 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 <code>FFE</code> <code>\_,</code> power will not be turned off.

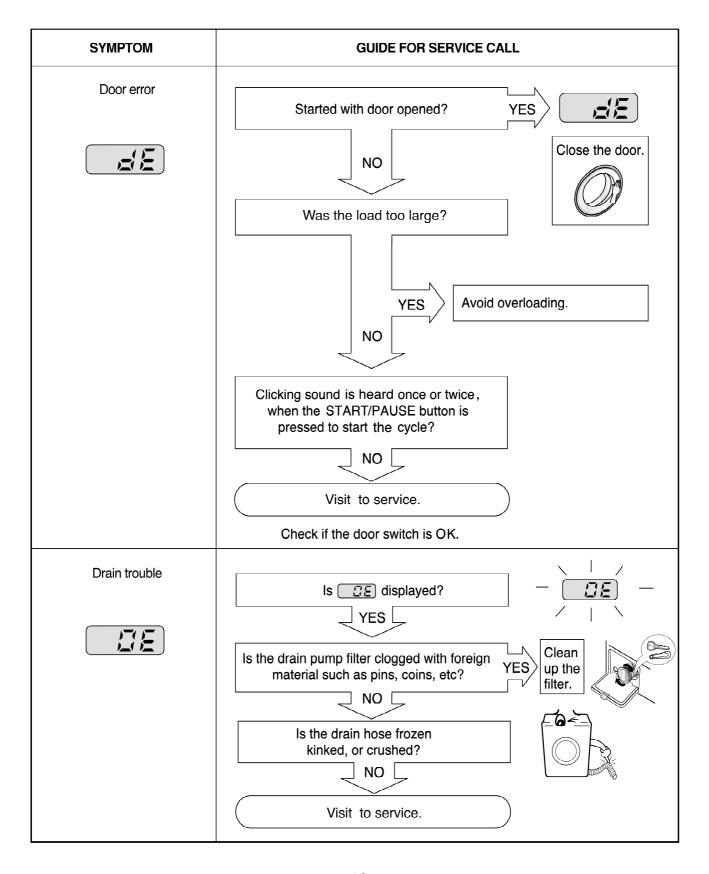
	ERROR	SYMPTOM	CAUSE
1	WATER INLET ERROR	:E	Correct water level (246) is not reached within 8 minutes after water is supplied or it does not reach the preset water level within 25 minutes.
2	IMBALANCE ERROR	LE	<ul> <li>The load is too small.</li> <li>The appliance is tilted.</li> <li>Laundry is gathered to one side.</li> <li>Non distributable things are put into the drum.</li> </ul>
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	ZE	<ul> <li>Door not all the way closed.</li> <li>Loose electrical connections at Door switch and PWB Assembly.</li> <li>The DOOR SWITCH ASSEMBLY is out of order.</li> </ul>
7	HEATING ERROR	<u> </u>	• The THERMISTOR is out order.

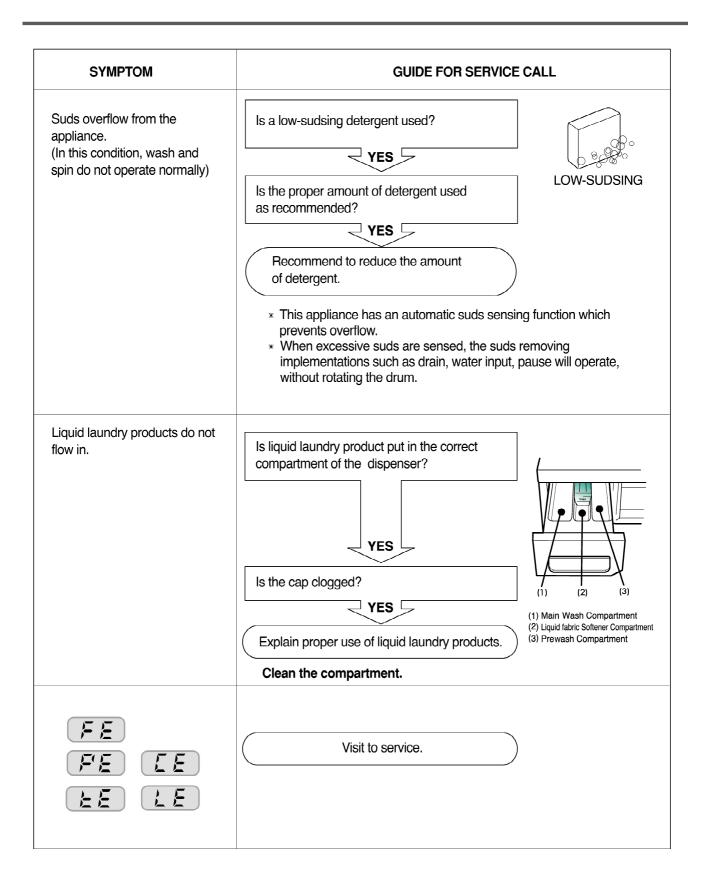
	ERROR	SYMPTOM	CAUSE
8	OVER CURRENT ERROR		MAIN PWB ASSEMBLY is out of order.     Winding in the STATOR ASSEMBLY is short-circuited.
9	LOCKED MOTOR ERROR	LE	<ul> <li>The connector (3-pin, male, white) in the MOTOR HARNESS is not connected to the connector (3-pin, female, white) of STATOR ASSEMBLY.</li> <li>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.</li> <li>The MOTOR HARNESS between the STATOR ASSEMBLY and MAIN PWB ASSEMBLY is cut (open circuited).</li> <li>The hall sensor is out of order/defective.</li> </ul>
10	BALL SENSOR ERROR	<b>5</b> 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



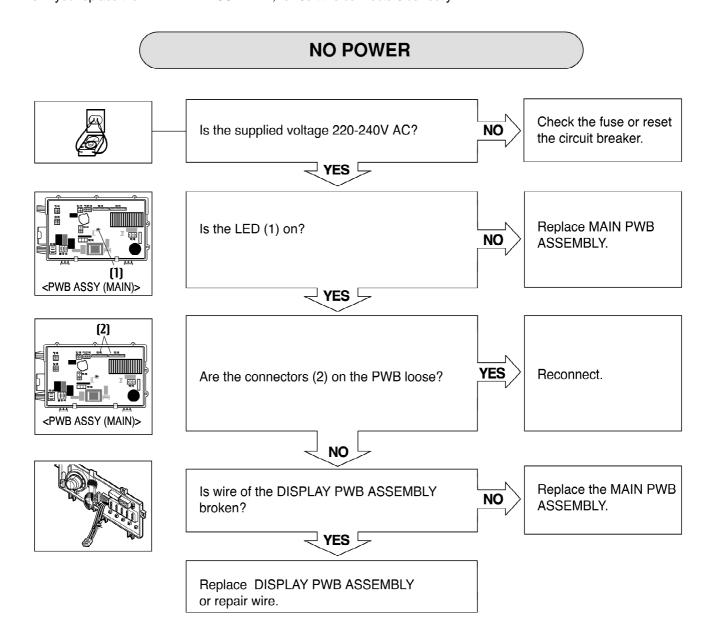




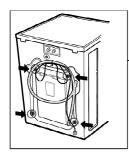
# 8-2. FAULT DIAGNOSIS AND TROUBLESHOOTING

# **▲** 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**



Have all the transit bolts and base packing been removed?

NO

Remove the transit bolts and Base packing.



Is the washer installed on a solidly constructed floor?

NO )

Move the washer or reinforce the floor.

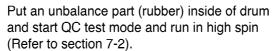


Check if the washer is perfectly level as follows:

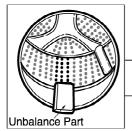
🛚 Yes 🗁



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



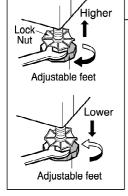
When the machine is spinning in high speed, verify that it is stable.



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.

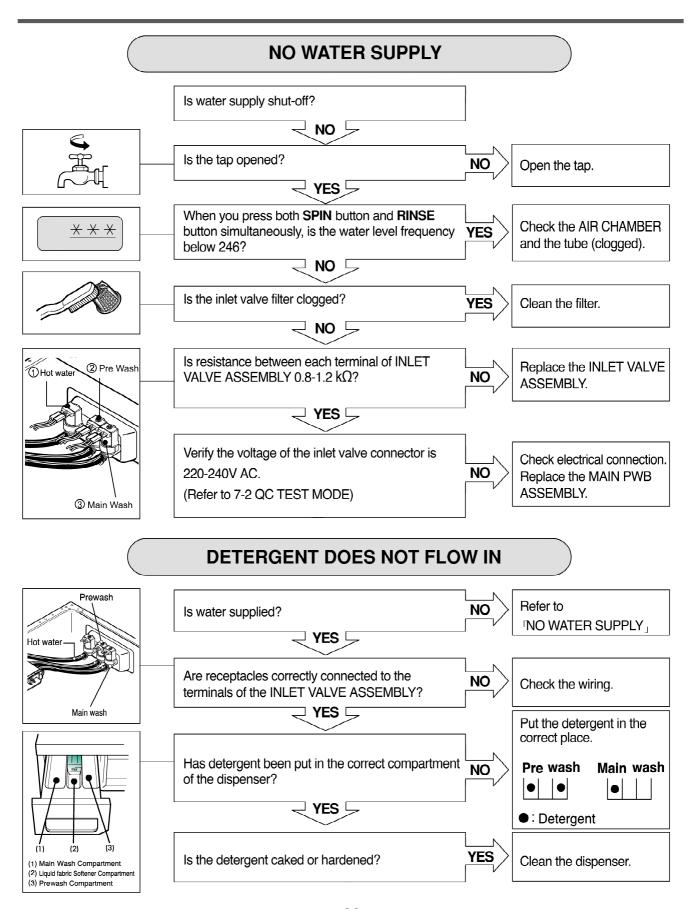
When the machine is spinning in high speed, verify that it is stable.



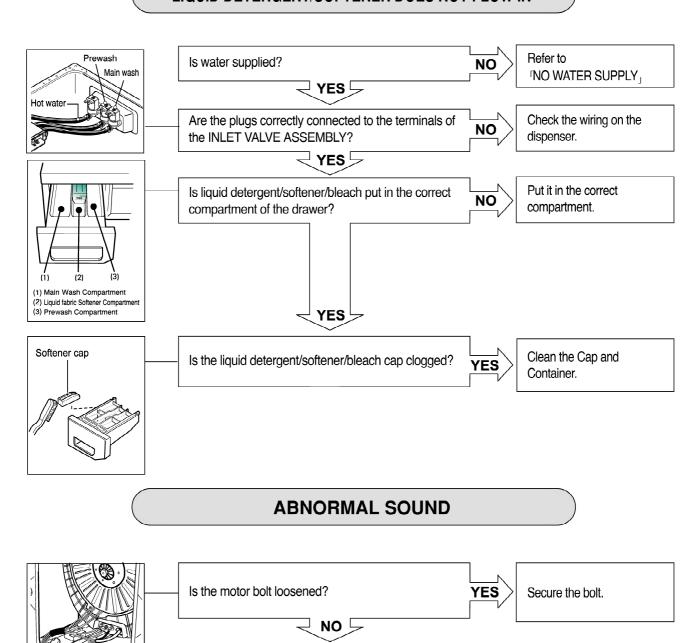


If it is not stable, adjust feet accordingly. After the washer is level, tighten the lock nuts up against of the base of the washer. All lock nuts must be tightened. If it still has severe vibration and noise, regulate a specific spin speed that generates excessive vibration and noise as follows:

- 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 ' \( \begin{aligned} \frac{1}{2} \begin{aligned} \delta & \delta & \delta \\ \delta & \delta & \delta & \delta \\ \delta & \delta & \delta & \delta \\ \delta & \delta & \delta & \delta & \delta \\ \delta & \del
- 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, 800, 1000, 1200 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 DOES NOT FLOW IN



Is there friction noise coming from the motor?

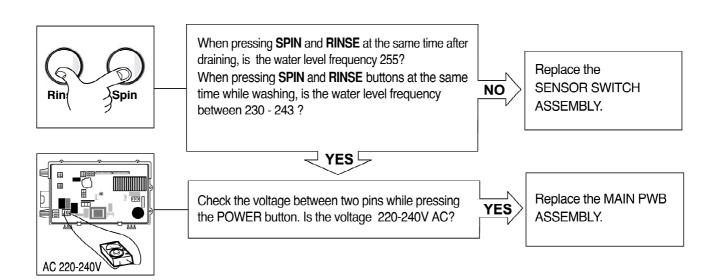
Replace the STATOR

ASSEMBLY.

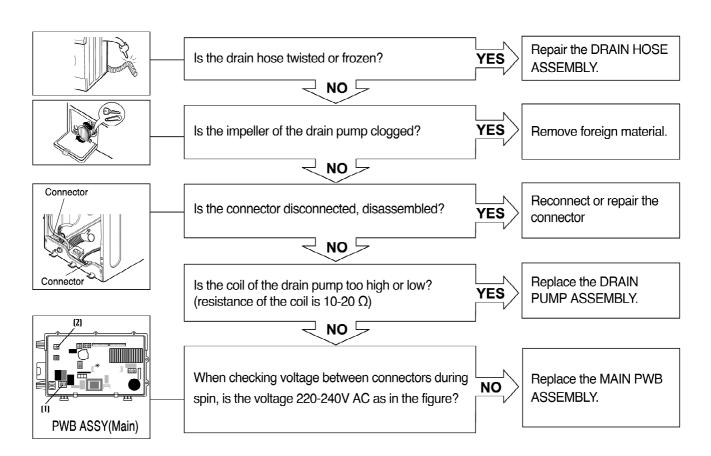
ASSEMBLY or ROTOR

YES

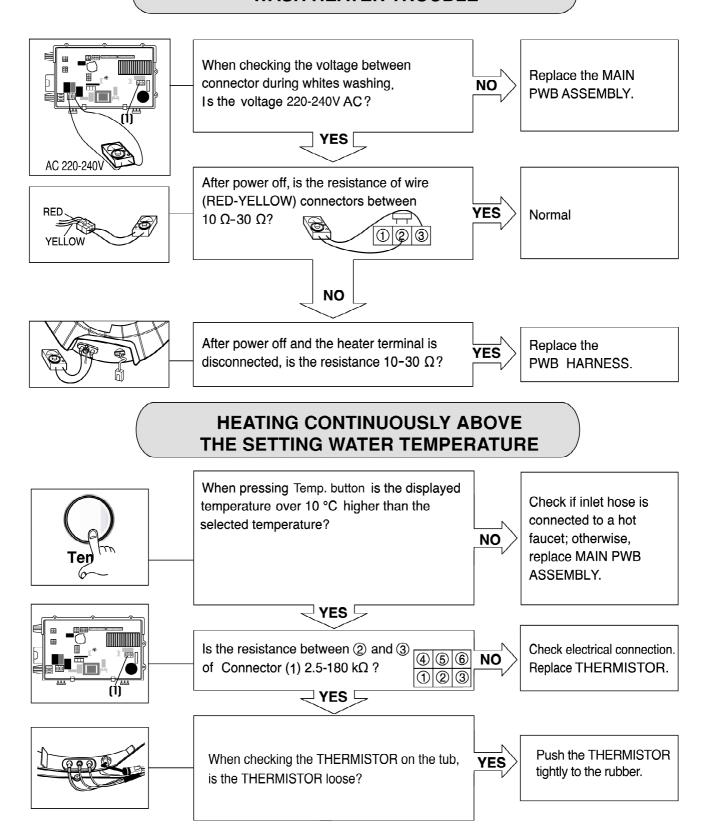
### **HEATING WITHOUT WATER**



### **DRAIN MALFUNCTION**



### **WASH HEATER TROUBLE**



# **WILL NOT CIRCULATE WATER** Is the impeller of the drain pump clogged? Remove foreign material. YES Hose Connector Hose (White) NO Remove foreign material. Are the Hose Connector and/or Hose clogged? YES NO Reconnect or repair Is the connector disconnected, disassembled? YES the connector. Connector NO Connector Is the coil of the right side of drain pump open Replace PUMP MOTOR YES or short circuited? (Coil R is 18-30 $\Omega$ ) ASSEMBLY. NO

Replace the MAIN PWB

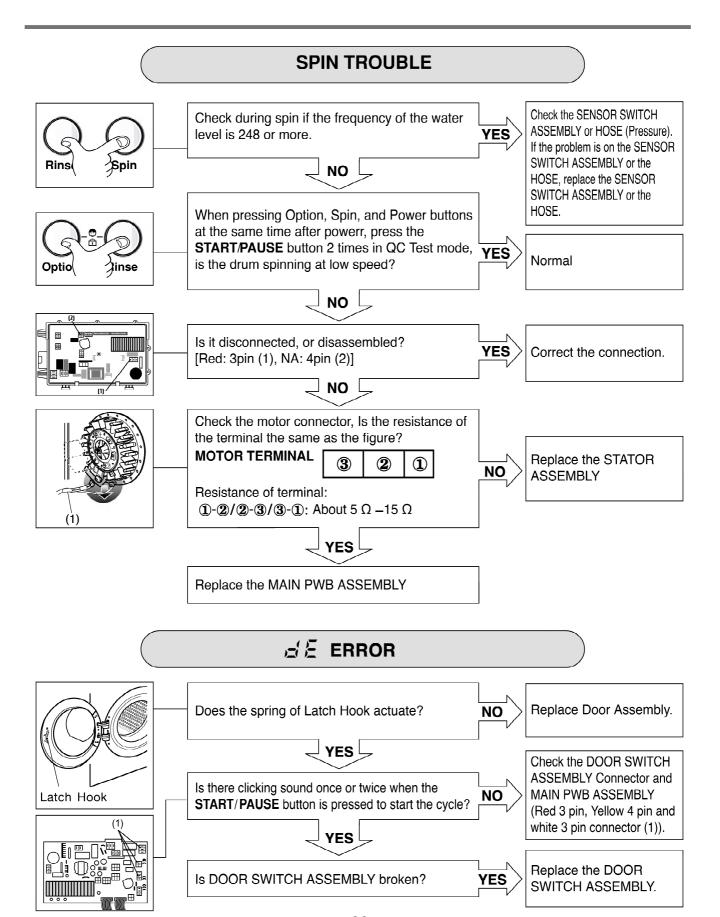
ASSEMBLY.

NO

When checking voltage between the

AC, as the figure?

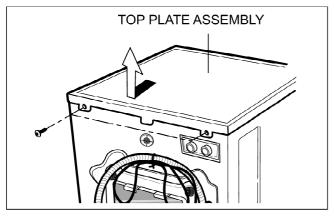
connectors during spin, is the voltage 220-240V



# 9. DISASSEMBLY INSTRUCTIONS

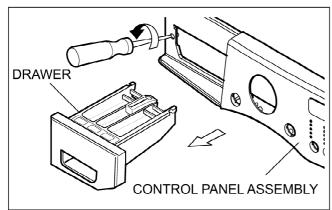
\* Be sure to unplug the machine out of the outlet before disassembling and repairing the parts.

# **CONTROL PANEL ASSEMBLY**



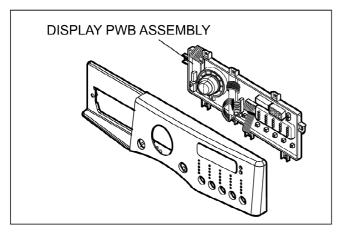
- ① Unscrew 2 screws on the back of the top plate.
- $\ensuremath{\textcircled{2}}$  Pull the top plate backward and upward as shown.





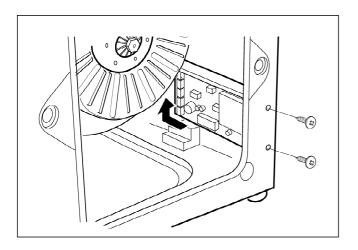
- ③ Disconnect the Display PWB Assembly connector from Trans cable.
- 4 Pull out the drawer and unscrew 2 screws.
- ⑤ Lift the left side of the Control Panel Assembly and pull it out.





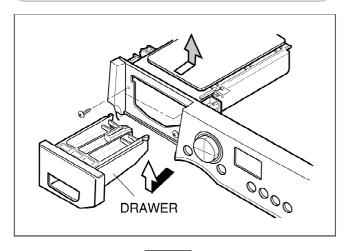
- ⑤ Unscrew the 9 screws from the Control Panel Assembly.
- ⑦ Disassemble the Display PWB Assembly.

# MAIN PWB ASSEMBLY(MAIN)



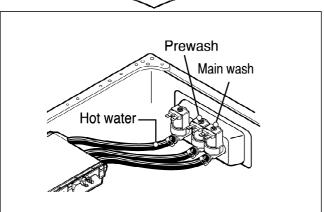
- ① Remove the back cover.
- ② Unscrew 2 screws.
- ③ Pull the Main PWB ASSEMBLY as shown.

# **DISPENSER ASSEMBLY**



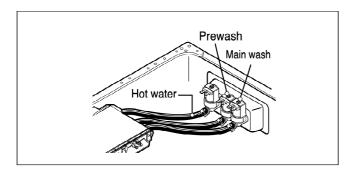
- ① Disassemble the top plate assembly.
- ② Pull out the drawer.
- ③ Push out the DISPENSER ASSEMBLY after unscrew 2 screws.
- ④ Unscrew the nut at the lower part of the dispenser.





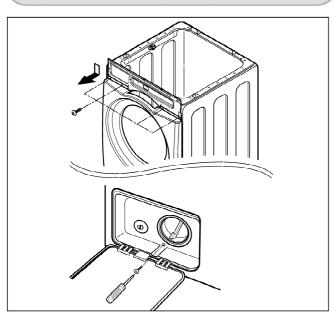
- ⑤ Disassemble the 2 or 3 connectors from the valves.
  - \* Wire Color
  - ① Blue Housing (BK-GR/WH)
  - ② White Housing (BK-WH/BK)
  - ③ Red Housing (BK-BL/RD)
- (6) Unscrew 2 or 4 screws from the back of the cabinet.

# **VALVE**

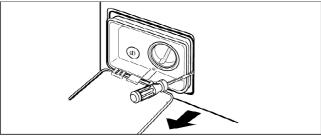


- ① Unscrew a screw from the TOP BRACKET.
- ② Disassemble two connectors from the POWER CORD.

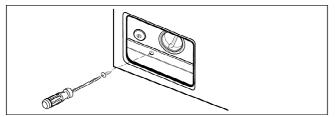
# **CABINET COVER**



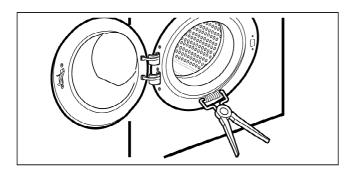
- ① Unscrew the 4 screws from upper of the canbinet cover.
- ② Unscrew the screw from filter cover.



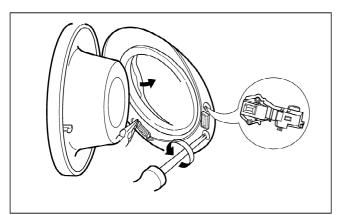
③ Put a flat ( – ) screwdriver or putty knife into the both sides of the filter cover, and pull it out.



① Unscrew the screw from the lower side of the cabinet cover.

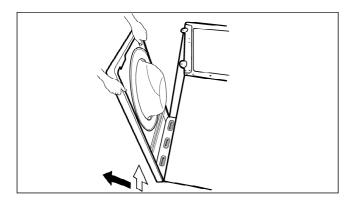


- ⑤ Open the door.
- $\ensuremath{\mathfrak{G}}$  Disassemble the clamp assembly.

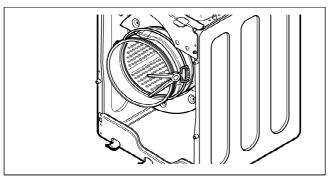


- ⑦ Tilt the cabinet cover.
- (8) Disconnect the door switch connector.

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

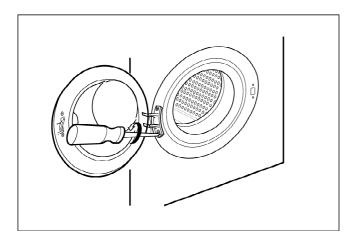


 $\ensuremath{\mathfrak{G}}$  Lift and separate the cabinet cover.



- $\ensuremath{\textcircled{\scriptsize{0}}}$  Disassemble the clamp assembly.
- (1) Disassemble the Gasket.

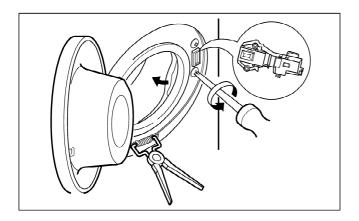
# **DOOR**



- $\ensuremath{\textcircled{1}}$  Open the door.
- ② Remove the two screws from the Hinge.
- When removing the Door Assembly, it is necessory to hold the break is inner of the cabinet cover.

\* Be careful! The door is heavy.

# DOOR LOCK SWITCH ASSEMBLY

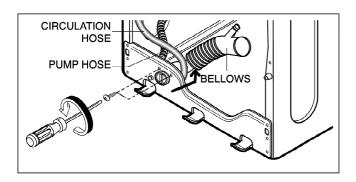


- ① Open the door and disassemble the CLAMP ASSEMBLY.
- ② Unscrew the 2 screws.

### **\* NOTE**

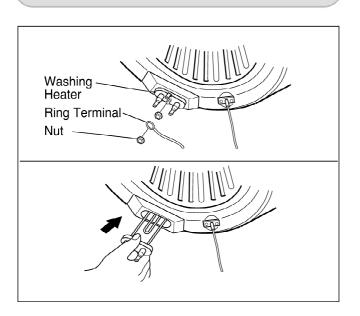
• Reconnect the connector after replacing the DOOR SWITCH ASSEMBLY.

### **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**

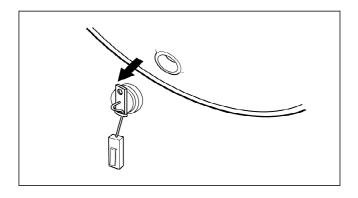


- ① Disassemble the cabinet cover.
- ② Separate 2 connectors from the heater.
- 3 Loosen the nut and pull out the heater.

### **\* CAUTION**

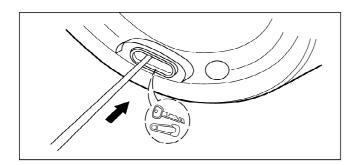
- When assembling the heater, insert the heater into the heater clip on the bottom of the tub.
- Tighten the fastening nut so the heater is secure.

# **THERMISTOR**



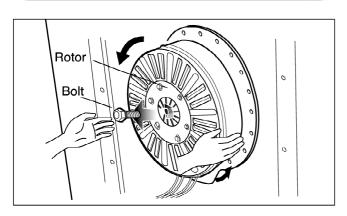
- ① Disassemble the cabinet cover.
- ② Unplug the white connector from the thermistor.
- ③ Pull it out by holding the bracket of the thermistor.

# WHEN FOREIGN OBJECT IS STUCK BETWEEN DRUM AND TUB

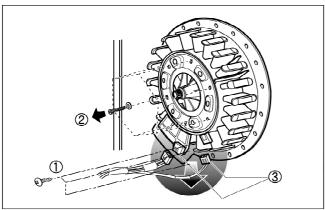


- ① Disassemble the cabinet cover.
- ② Separate the heater from the tub.
- ③ Remove any foreign objects (wire, coin, etc.) by inserting a long bar in the opening.

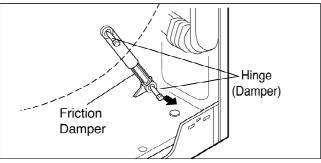
### MOTOR/DAMPER



- 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.

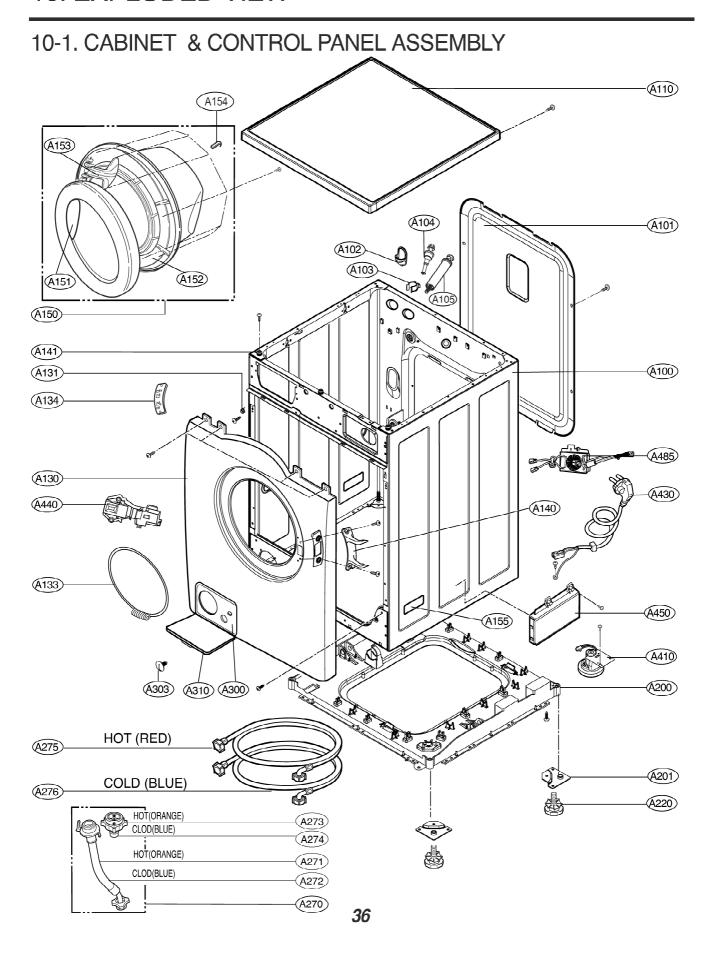


- ① Disassemble the damper hinges from the tub and base.
- ② Separate the dampers.

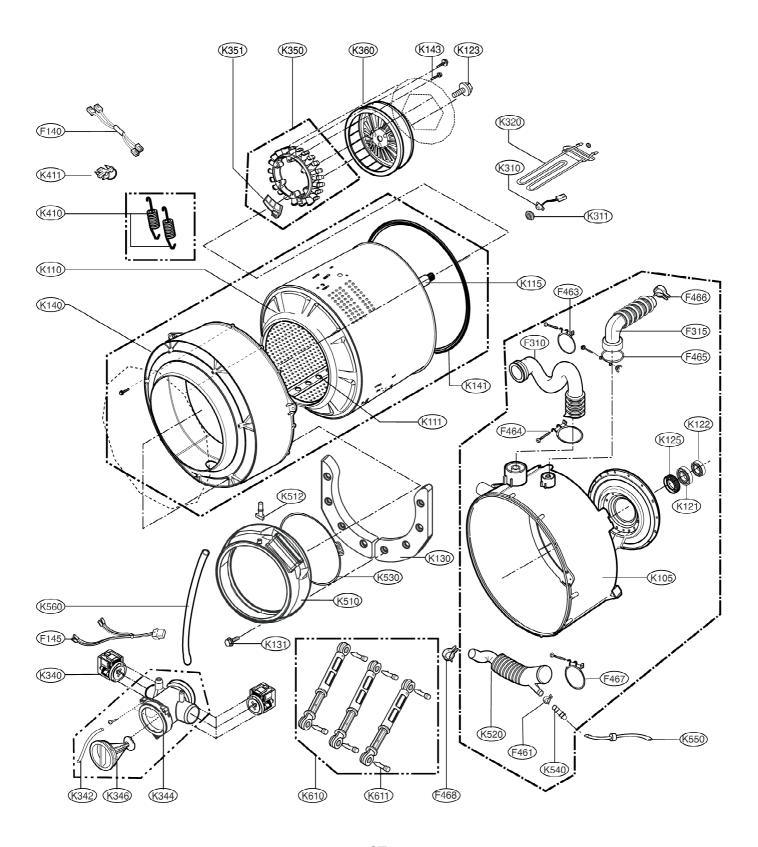
### **\* NOTE**

• Once removed, replace the damper with new one.

# 10. EXPLODED VIEW



# 10-2. DRUM & TUB ASSEMBLY



# 10-3. DISPENSER ASSEMBLY

