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# WASHING MACHINE **SERVICE MANUAL**

#### **CAUTION**

READ THIS MANUAL CAREFULLY TO DIAGNOSE TROUBLE CORRECTLY BEFORE OFFERING SERVICE.

MODEL: WD(M)-80150FB

WD(M)-90150(5)FB

WD(M)-10150(5)FB/WD-10160(5)FB/WD-10164FB

WD(M)-11150(5)FB/WD-11151(6)FB/DWD-11151(6)FB/NWD-11151(6)FB

WD(M)-12150(5)FB/WD-12160(5)FB/WD-12164FB

WD(M)-13150(5)FB/WD-13151(6)FB/DWD-13151(6)FB/NWD-13151(6)FB

WD-1025FB/WD-10150(5)F



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## 1. SPECIFICATION

IT	EM	WD(M)-80150FB, WD(M)-90150(5)FB, WD(M)-10150(5)FB, WD-10160(5)FB, WD-10164FB, WD(M)-11150(5)FB, WD(M)-11151(6)FB, DWD-11151(6)FB, NWD-11151(6)FB, WD(M)-12150(5)FB, WD-12164FB, WD(M)-13150(5)FB, WD-13151(6)FB, DWD-13151(6)FB, NWD-13151(6)FB, WD-1025FB, WD-10150(5)F								
POWER	SUPPLY	220-240V~, 50Hz								
PRODUC	Γ WEIGHT	65kg								
	WASHING	150W								
ELECTRICITY	SPIN (800rpm)	300W								
CONSUMPTION	DRAIN MOTOR	32W								
	WASH HEATER	2000W								
DEVOLUTION	WASH	45rpm								
REVOLUTION SPEED	SPIN	WD(M)-80150FB	400/500/600/800 rpm							
		WD(M)-90150(5)FB	400/600/800/900 rpm							
		WD(M)-10150(5)FB / WD-10160(5)FB / WD-1025FB / WD-10164FB	400/600/800/1000 rpm							
		WD(M)-11150(5)FB / WD-11151(6)FB / DWD-11151(6)FB / NWD-11151(6)FB	400/600/800/1100 rpm							
		WD(M)-12150(5)FB / WD-12160(5)FB / WD-12164FB / WD-10150(5)F	400/800/1000/1200 rpm							
		WD(M)-13150(5)FB / WD-13151(6)FB/DWD-13151(6)FB / NWD-13151(6)FB	400/800/1100/1300 rpm							
OPERATION WA	TER PRESSURE	0.3-10kgf/cm² (30-1000kPa)								
CONTI	ROL TYPE	Electronic								
		7.0kg	8.0kg ( WD-10150(5)F )							
WASH C	CAPACITY	Synthetic (3.5kg), Delicate (3.0kg)								
		Wool (2.0kg), Hand Wash(2.0kg), Quick 30(2.0kg)								
DIME	NSION	600mm(W)×600mm(D)×850mm(H)								
WASH PI	ROGRAM	Cotton, Synthetic, Delicate, Wool, Hand Wash, Quick 30, Rinse+Spin								
0	Р	Bio, Time Save, Rinse +, Pre-Wash, Crease Care, Rinse Hold								
DOOR SW	/ITCH TYPE	Bi-Metal type								
WATER	LEVEL	9 steps (by sensor)								
RESER	VATION	From 3 hours to 19 hours								
SENSING OF THE LAU	JNDRY AMOUNT	Adopted								
FUZZY	LOGIC	Adopted								
DISPLAY OF THE	REMAINING TIME	Adopted								
ERROR D	IAGNOSIS	10 items								
POWER A	UTO OFF	Adopted								
CHILD	LOCK	Adopted								
AUTO R	ESTART	Adopted								

### 2. FEATURES & TECHNICAL EXPLANATION

### 2-1.FEATURES



#### ■ Jumbo drum

LG's jumbo drum can wash about 40% more per load than conventional washing machine. A bigger drum improves the wash performance.



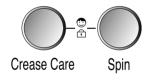
### ■ Protection against creases

With the alternate rotation of the drum, creasing in the laundry is minimized.



### **■** More economical by Fuzzy Logic System

FUZZY Logic System detects the amount of load and water temperature, and then determines the optimum water level and washing time to minimize energy and water consumption.



#### **■ Child-Lock**

The Child-Lock system has been developed to prevent children from pressing any button (except Power button) to change the programme during operation.



### ■ Low noise speed control system

By sensing the amount of load and balance, automatical distributes load evenly to minimize the spinning noise level.

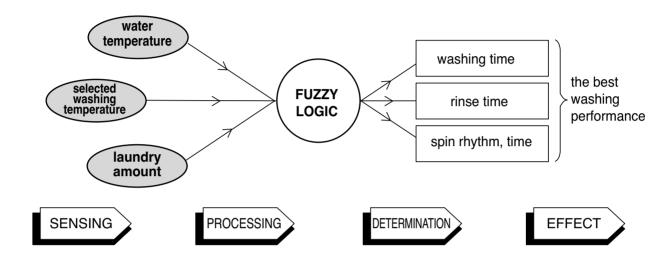


#### ■ Auto Restart

Although the washing machine is turned off by a power failure, it restarts automatically where it stopped when power is supplied again. and it will be the same the machine is unplugged and is plugged in again.

### 2-2.DETERMINE WASHING TIME BY FUZZY LOGIC

To get the best washing performance optimal time is determined by sensing of water temperature, selected washing temperature and laundry amount.



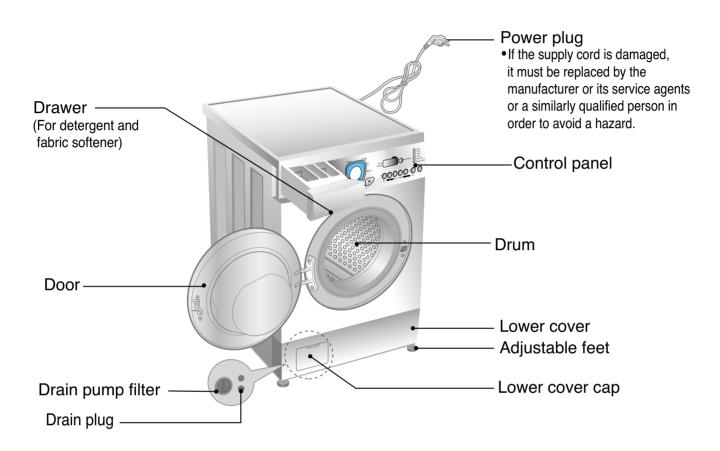
### 2-3.WATER LEVEL CONTROL

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

### 2-4.THE DOOR CAN NOT BE OPENED

- While program is operating.
- · While Door Lock light turns on.

## 3. PARTS IDENTIFICATION



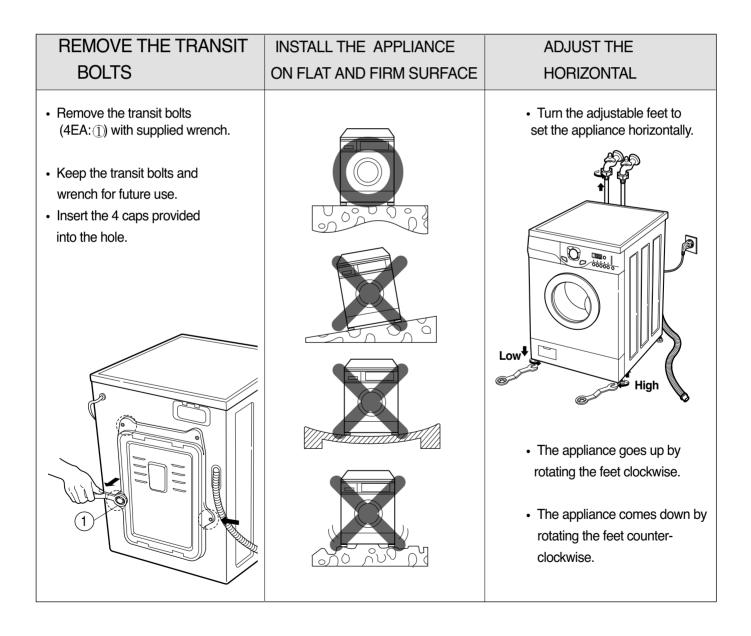
### **ACCESSORIES**



### 4. INSTALLATION

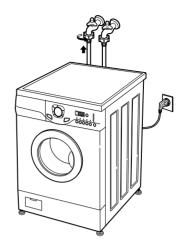
- 1 Before servicing ask the customer what the trouble is.
- 2 Check the adjustment (power supply is 220-240V, remove the transit bolts....)
- (3) Check the troubles referring to the troubleshooting.
- 4 Decide service steps referring to disassembly instructions.
- (5) Then, service and repair.
- 6 After servicing, operate the appliance to see whether it works O·K or NOT.
- STANDARD INSTALLATION

The appliance should be installed as follows.

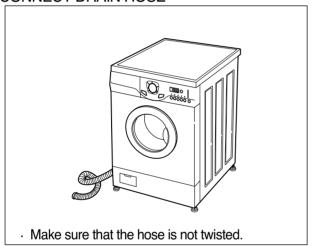


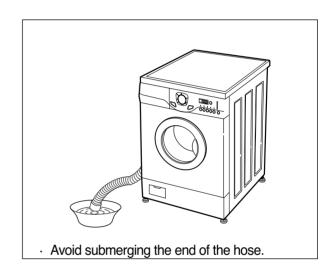
### ■ HOW TO CONNECT INLET HOSE

- Check that the rubber washer is inside of the valve connector.
- Connect the inlet hose firmly to prevent leak.



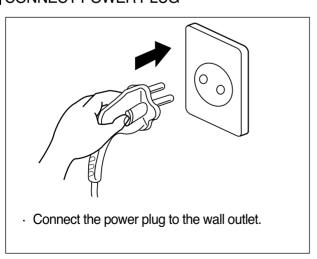
### **■ CONNECT DRAIN HOSE**

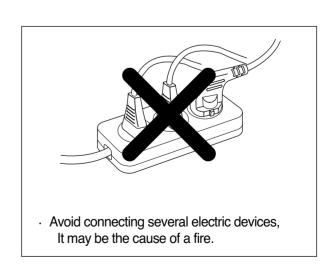




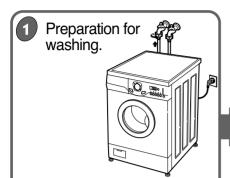
\*\* The drain hose should be placed under 100cm from the floor.

### **■ CONNECT POWER PLUG**





### **7 TEST OPERATION**



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

2 Press the power button.



• In case of cotton program.

Press the START/PAUSE button.



6 Check the water heating.



 Press both Pre Wash and Time Delay button simultaneously the present temperature will be displayed. Check automatic reverse turn.



· Check if the drum rotates clockwise and counterclockwise.

4 Check the water supply.



· Check if water is supplied through the detergent dispenser.

- Check drain and spin
- Turn off Wash and Rinse lamps after pressing the Start/Pause button and start the machine again.
- · Check drain and spin.

8 Power off and open the door



Power off and then power on.
Check if the door can be opened after **Door Lock** lamp turns off.

9 Water removal



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

#### Eco

 It is possible in cotton course when 60°C

### **LED** display

- Display the estimated remaining time (Hour : Minute) to finish.
- In case of abnormal operation, error indications are displayed.

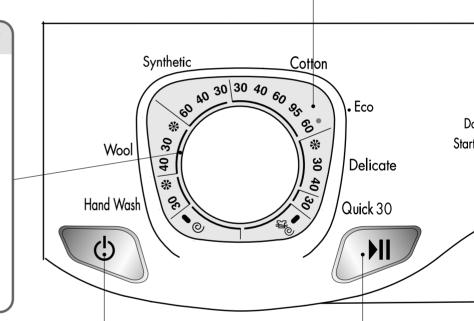
(IE, OE, UE, dE, EE, FE, PE, CE,)

• See troubleshooting guide.

### Wash program selector

- 8 program can be set depending on the type of the laundry.
- If the power button is pressed, all lamps are on
- By turning the dial, [Cotton ⟨> Delicate ⟨> Quick 30 ⟨> Rinse + Spin ⟨> Spin ⟨> Hand Wash ⟨> Wool ⟨> Synthetic] can be selected.

(The opposite is possible)



### **Power button**

- Press the button to turn power on and off.
- Press the button to cancel the time delay.

### Start/Pause button

- Use the button to start or pause wash cycle.
- The power turns off automatically 4 minutes after the pause button is pressed.

### **Option**

Bio If you want to eliminate 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 and Synthetic.]

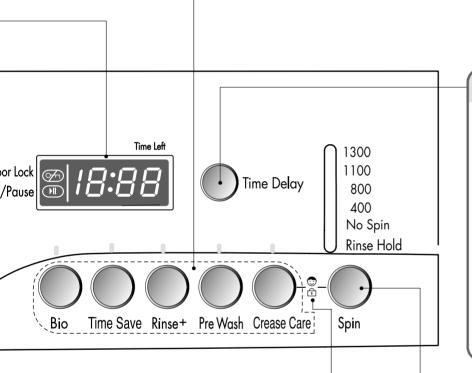
Time Save By selecting the Time Save option, the wash time may be reduced, depending on the program selected.

Rinse<sup>+</sup> If you wish to rinse more, the Rinse<sup>+</sup> option will remove any trace of detergents.

Pre Wash If the laundry is heavily soiled, "Pre Wash" course is effective.

Pre Wash is available in Cotton and Synthetic Program.

Crease Care If you want to prevent crease, select this button with spin



### Time Delay

Press the button when delayed washing is needed.

When the button is pressed, [ 3:00 ] is displayed, maximum delay of [ 19:00 ] hours can be set.

Each press advances time delay by the hour.

Use [Power] button to cancel [Time Delay]

[Time Delay] means the time required from the present to the completion of washing.

#### Child - Lock

Child Lock system can be set and canceled by pressing and holding both [Spin] and [Crease Care] button simultaneously more than 2 seconds.

Once Child Lock is set, all buttons are inoperable.

Child Lock system can be set anytime even during Poweroff and operation.

It is automatically cancelled when an operational error occur.

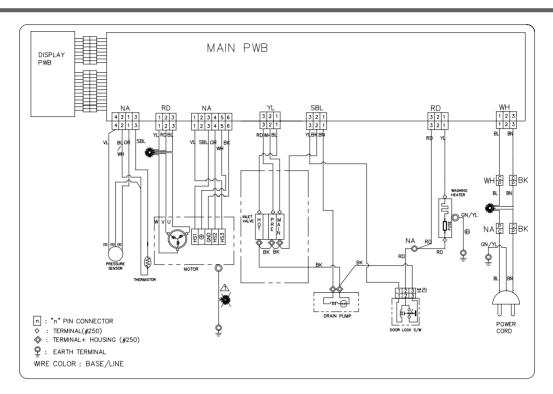
#### Spin

WD(M)-80150FB No spin/400/500/600/800
WD(M)-90150(5)FB No spin/400/600/800/900
WD(M)-10150(5)FB /WD-10160(5)FB/WD-1025FB
/WD-10164FB/WD-10150(5)F No spin/400/600/800/1000
WD(M)-11150(5)FB/WD-1151(6)FB/DWD-11151(6)FB / NWD-11151(6)FB
No spin/400/600/800/1100

WD(M)-12150(5)FB/WD-12160(5)FB/WD-12164FB No spin/400/800/1000/1200

WD(M)-13150(5)FB/WD-13151(6)FB/DWD-13151(6)FB / NWD-13151(6)FB No spin/400/800/1100/1300

## 6. WIRING DIAGRAM / PROGRAM CHART



*	(	): <b>\</b>	: WD-80150FB								* Water Supply : W·S * Intermittent									t Sp	oin	: ŀS	3	*	Dis	entangle	: D·T									
€ C	;					٧	Vas	hin	g					Rinse										Cnin				Α								
	Y	_		Р	re				Ma	ain								Nor	ma	l						Rins	se +	-	Spin			E	밁			
//	/	C \ I	w				w	Was	shing	Sta	ycoo	ling		1				2	2			3	3			4	<u> </u>	,				N	0	Norm	ıal	
c c	\s  \	T E	w S	Washing	Drain	  -   S	v S	Heating	Washing	W S	Rinsing	Drain	Drain	-   S	⊗ . S	Rinsing	Drain	  -   S	₩ S	Rinsing	Drain	- S	W S	Rinsing	Drain	- S	W S	Rinsing	Drain	Spin	D·T	D	O F F	Working Time		
	\	\_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	(Hour:Minute)		
U R S E	/	Time (SEC)	120	MIN	60	240	120			120	60	60	60	240	120	360	60	240	120	360	60	240	120	360	60	240	120	360	60	480	120	20	20			
Со	tto	n		8					42 87		$\times$	<																						About 2:3	35(2:34)	
Syn	the	tic		$\subseteq$	7				26	$\leq$	<u>~</u>	$\geq$																						About	1.24	
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Del	lica	ite		_	$\leq$	>			18 4		$\sim$	$\rightarrow$									_													About	58	
Wo	ool			>	<				18		$\sim$	<			┢						l							*****		Н				About	58	
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	Sp	in												About	13																					

- Basic Cycle Optional Cycle
- \* Pre-Setting Time: Water Supply 120 sec.
  Drain 60 sec.
- \* ~ Time for varies as the temperature or the amount of laundry
- \* Basic time is minute in washing chart
  \* The actual program time can be varied with the load amount, water temperature or ambient temperature
- \* Pre Wash: If the laundry is heavily soiled, "Pre Wash" course is effective. Pre Wash is available in Cotton and Synthetic Program.
- \* Eco: By selecting Eco function, the water temperature is reduced and washing time is lengthened. So you can economize in your consumption of energy.
- \* Rinse+: If you wish to rinse more, the Rinse+ function will remove any trace of detergents.
- \* Bio: If you want to eliminate protein stains (milk, blood, chocolate...), you may select Bio function by pressing the option button.
- \* Quick 30 : By selecting this function, you may wash a small quantity of colored laundry which is lightly soiled fast.
- \* You can select Bio function and Eco function when temperature is higher than 60°C in Cotton and Synthetic. If the function is selected, the beginning water temperature can not be changed.

### 7. TROUBLESHOOTING

### 7-1.BEFORE PERFORMING SERVICE

- Be careful of electric shock or disconnecting the parts while trouble shooting.
- Voltage of each terminal in 220-240V and DC while applying an electric current.

### 7-2.QC TEST MODE.

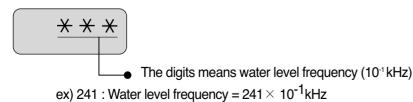
- 1) Pressing Crease Care, and Pre Wash button simultaneously.
- 2 Power button ON with pressing upper two button. then buzzer sound twice.
- ③ Press the START/PAUSE button as follows.

[Press the START/PAUSE button more 4 times until stop spinning]

Pressing number of [START/PAUSE] button	Checking Point	Display Status						
None	All lamps turn on	(1 <u>8</u> :8 <u>0</u>						
1 time	Counterclockwise spin (left)	Motor rpm (About 45)						
2 times	Low speed Spin	Motor rpm (About 63~67)						
3 times	High speed Spin	Motor rpm (About 79~85) : WD(M)-80150FB						
		Motor rpm (About 100~106) : WD(M)-10150(5)FBWD-90150(5)FBWD-1025FB						
		/ WD-10160(5)FB/WD-10164FB						
		Motor rpm (About 107~103) : WD(M)-11150(5)FBWD-11151(6)FB/DWD-11151(6)FB / NWD-11151(6)FD						
		Motor rpm (About 114~120) : WD(M)-12150(5)FB/WD-12160(5)FB/WD-12164FB						
		Motor rpm (About 122~127) : WD(M)-13150(5)FB/WD-13151(6)FB/DWD-13151(6)FB / NWD-13151(6)FD						
4 times	Inlet valve for pre-wash operation	Water level frequency (25~65)						
5 times	Inlet valve for main-wash operation	Water level frequency (25, 65)						
5 unes	Hot inlet valve in case of hot water fill	Water level frequency (25~65)						
6 times	Inlet valve for main-wash operation	Water level frequency (25~65)						
7 times	Clockwise spin (Right)	Motor rpm (About 45)						
8 times	A Heater is in operation for 3 sec.	Water Temperature						
9 times	Draining pump operation	Water level frequency						
10 times	Auto off operation							

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

\* Press the **Bio** and **Time delay** button simultaneously.



=24.1kHz

### 7-4.ERROR DISPLAY.

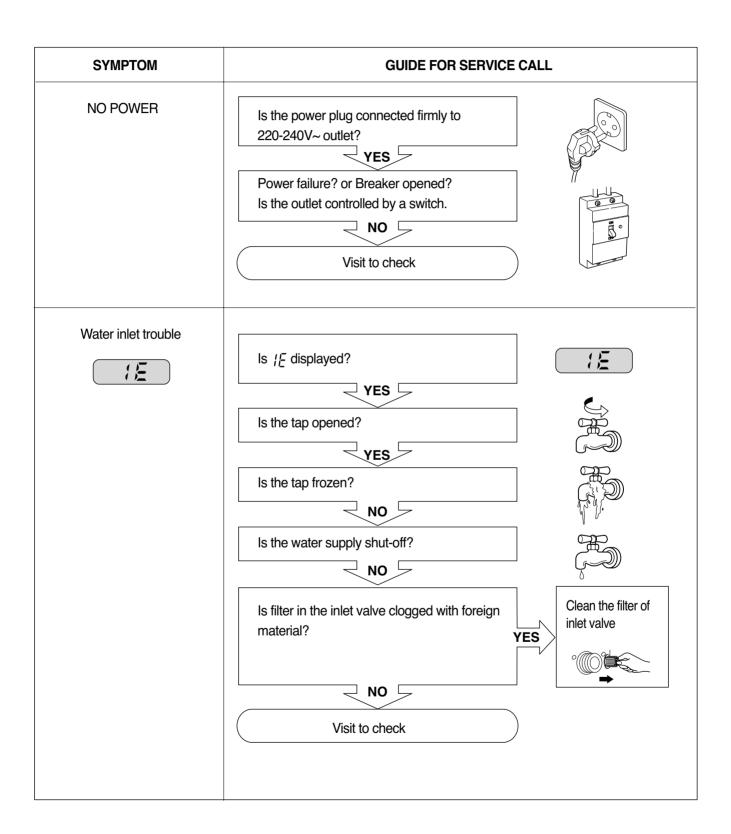
- If you press the [Start/Pause] button any error except PE will disappear and the machine will change into pause status.
- In case of  ${}^{\mathbb{F}}\mathcal{E}_{\mathbb{J}}$ ,  ${}^{\mathbb{E}}\mathcal{E}_{\mathbb{J}}$ ,  ${}^{\mathbb{E}}\mathcal{E}_{\mathbb{J}}$ , if the error is not resolved within 20 sec. In case of other errors, if the error is not resolved within 4 min. Power will be turned off automatically and the error only will be blinked. But in the case of  ${}^{\mathbb{E}}\mathcal{E}_{\mathbb{J}}$ , power will not be turned off.

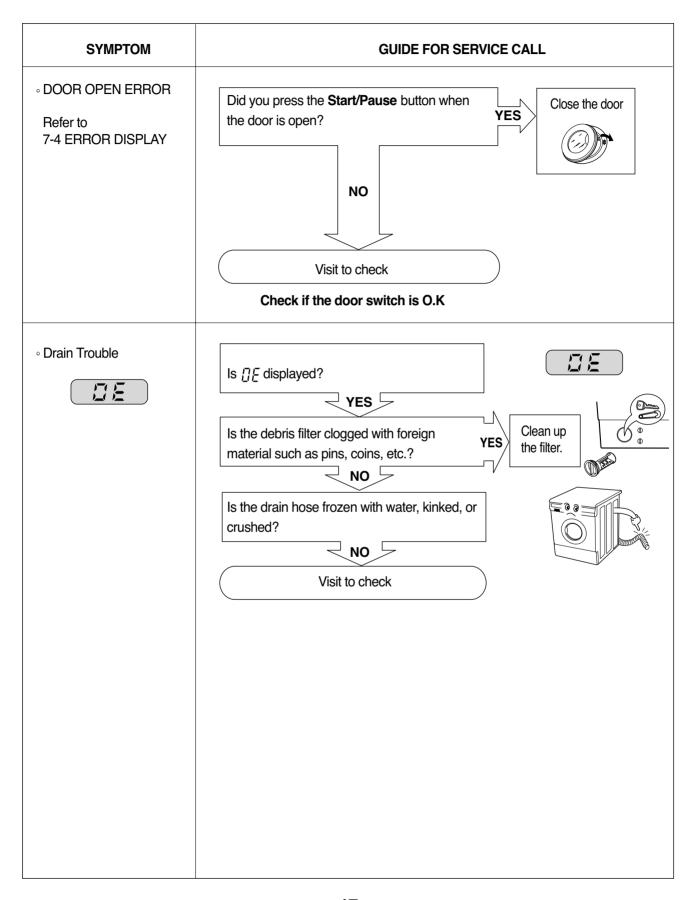
	ERROR	SYMPTOM	CAUSE
1	WATER INLET ERROR	:E	<ul> <li>Water has not reached to the pre-set level within 4 min. since inlet valve operated, or water has not reached to the normal level within 25 min.</li> </ul>
2	IMBALANCE ERROR	UE	<ul> <li>The appliance is tilted.</li> <li>Laundry is gathered to one side.</li> <li>Non distributable things are put into the drum.</li> </ul>
3	DRAIN ERROR		O Water has not drained enough within 5 min.
4	OVERFLOW ERROR	FE	Water is automatically being pumped out because too much water is in the tub.
5	SENSOR PRESSURE S/W ERROR	FE	O The sensor pressure switch is out of order.
6	DOOR OPEN ERROR	( #E	<ul><li> The [Start/Pause] button is pressed with the door open.</li><li> The door switch is out of order.</li></ul>
7	HEATING ERROR	<u> </u>	○ The thermistor is out of order.
8	SENSOR ERROR	55	<ul> <li>The connector (5-pin, male, white) in the wire harness is not connected to the connector (5-pin, female) of hall sensor in the MOTOR.</li> <li>Reconnect or repair the contact in the connector.</li> </ul>

	ERROR	SYMPTOM	CAUSE
8	SENSOR ERROR	5 1	<ul> <li>The electric contact between the connectors (5-pin, male in the wire harness and 5-pin, female in the hall sensor) is bad or unstable.  Reconnect or repair the contact in the connector</li> <li>The connector (6-pin, male, natural) in the wire harness is not connected to the connector (6-pin, female, natural) of PWB ASSEMBLY (Main) or the electric contact of connectors is bad/unstable.  Reconnect or repair the contact in the connector</li> <li>The electric contact between the connectors [6-pin, male, in the wire harness and 6-pin, female in the controller (Main)] is bad or unstable.  Reconnect or repair the contact in the connector</li> <li>The Wire Harness between hall sensor in the MOTOR and PWB ASSEMBLY (Main) is cut (open circuited).</li> <li>Repair/replace the damaged WIRE HARNESS</li> <li>The hall sensor is out of order/defective.</li> <li>Replace the motor</li> <li>The controller (Main) is out of order/defective.</li> <li>Replace the PWB ASSEMBLY (Main)</li> </ul>
9	CURRENT ERROR	CE	<ul> <li>PWB ASSEMBLY (Main) is out of order</li> <li>Replace the PWB ASSEMBLY (Main)</li> <li>Winding in the MOTOR is short-circuited.</li> <li>Replace the MOTOR</li> </ul>
10	LOCK ERROR	E	<ul> <li>The Connector (3-pin, male, white) in the wire harness is not connected to the Connector (3-pin, female, white) of MOTOR.</li> <li>Reconnect or repair the connector</li> <li>The electric contact between the connectors [3-pin, male, white in the wire harness and 6-pin, female, white in the PWB ASSEMBLY (Main)] is bad or unstable.</li> <li>Reconnect or repair the contact in the connector</li> <li>The wire harness between the MOTOR and PWB ASSEMBLY (Main) is cut (open circuited).</li> <li>Repair the damaged (open-circuited) WIRE HARNESS</li> <li>The hall sensor is out of order/defective.</li> <li>Replace the PWB ASSEMBLY (Main)</li> </ul>

### 8. ERROR DIAGNOSIS AND CHECK LIST

### 8-1.DIAGNOSIS AND ANSWER FOR ABNORMAL OPERATION



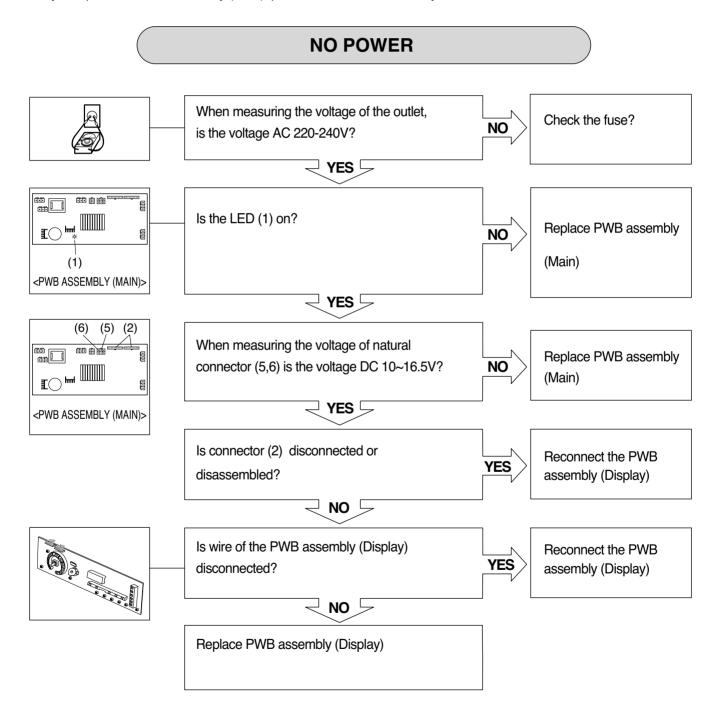


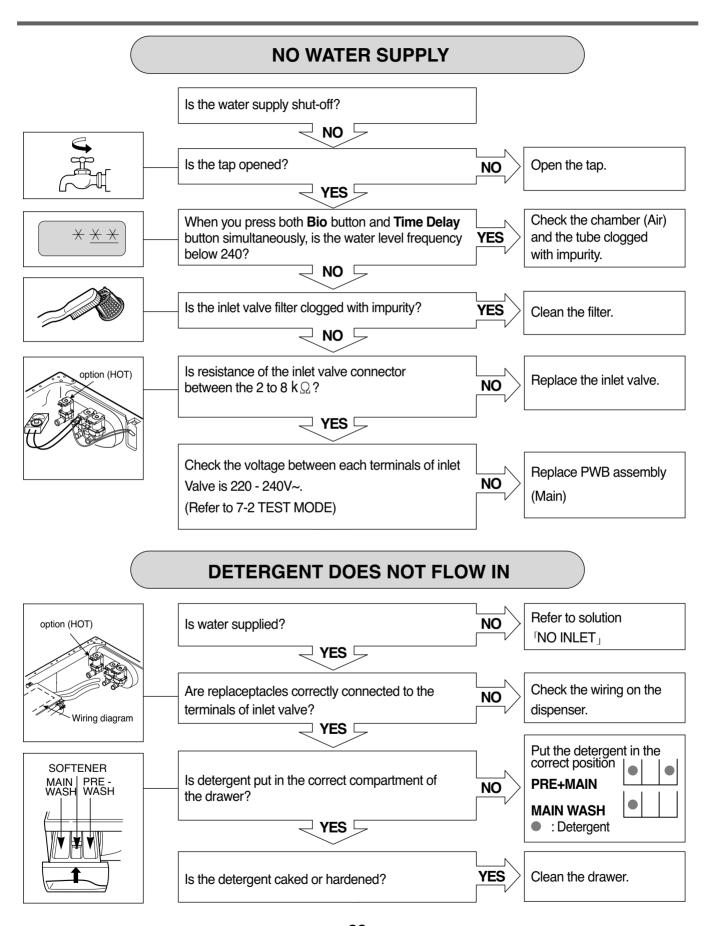
SYMPTOM	GUIDE FOR SERVICE CA	LL
<ul> <li>Suds overflow from the appliance.</li> <li>(In this condition, wash and spin do not operate</li> </ul>	Is low-sudsing detergent for the durm washing machine used?	3.200
normally)	Is the proper amount of detergent used as recommended?	LOW SUDSING DETERGENT
	Recommend to reduce the amount of detergent.	
	<ul> <li>This appliance has the automatic suds sensing operates under much suds condition for good preventing overflow.</li> <li>When much suds are sensed, the suds remodrain, water input, and pause will operate with drum.</li> </ul>	d rinse and oving fuction such as
∘ No effect of softener	Is softener put in the correct compartment of drawer?	Compartment for softener
	Is the drawer closed during wash?	
	Is the softener cap clogged?	
	Explain how to use softener	
	Clean the compartment for softener	
FE FE EE LE	Visit to check	

### 8-2. FAULT DIAGNOSIS AND TROUBLESHOOTING

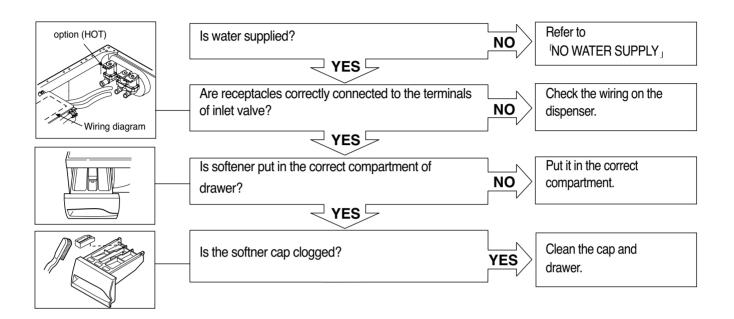
### CAUTION

- 1. Be careful of electric shock or disconnecting the parts while troubleshooting.
- 2. First of all, check the connection of each part terminal with wiring diagram.
- 3. If you replace the PWB assembly (Main), put in the connectors correctly.

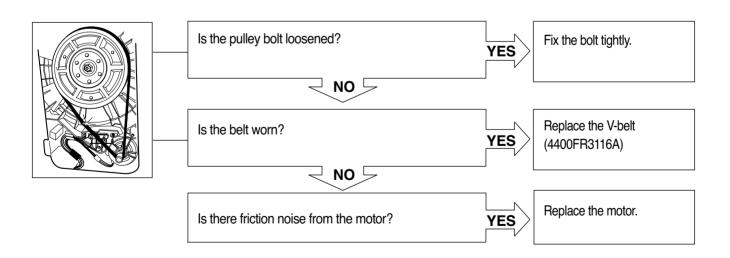




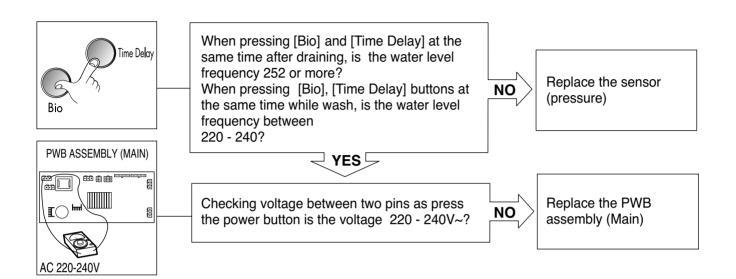
### **SOFTENER DOES NOT FLOW IN**



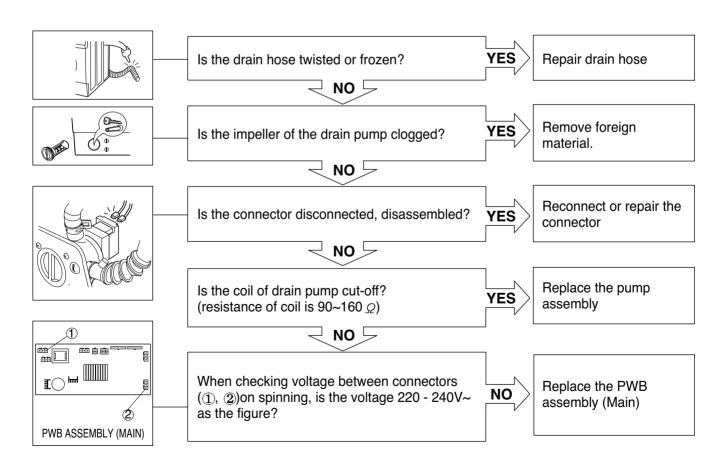
### **ABNORMAL SOUND**

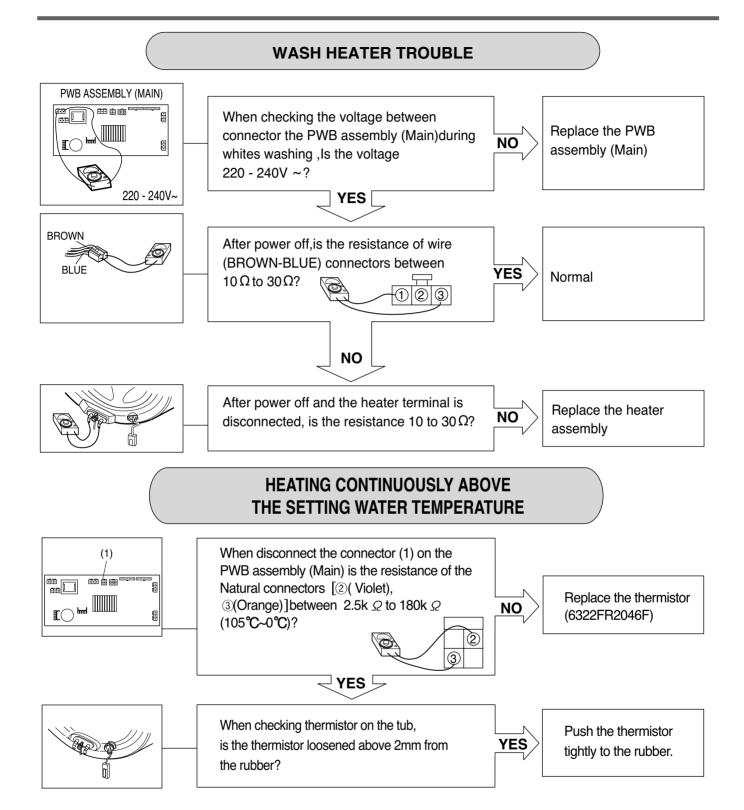


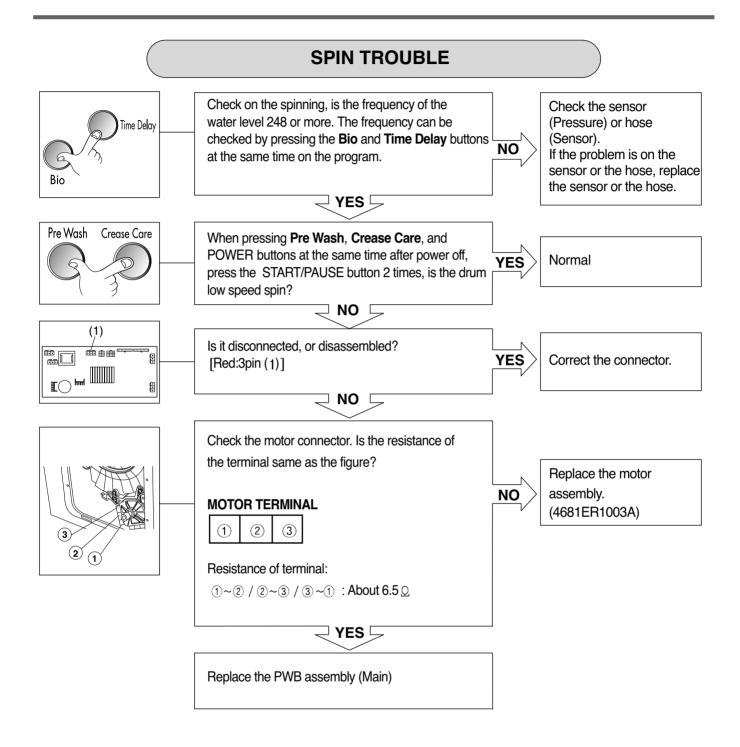
#### **HEATING WITHOUT WATER**



#### **DRAIN MALFUNCTIONING**



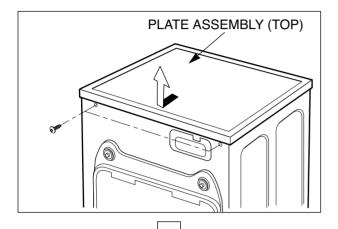




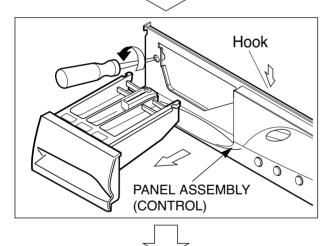
## 9. DISASSEMBLY INSTRUCTIONS

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

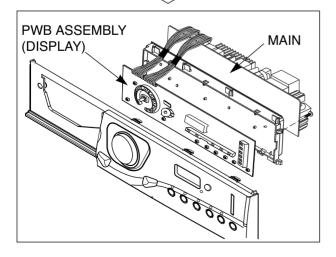
### **CONTROL PANEL**



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

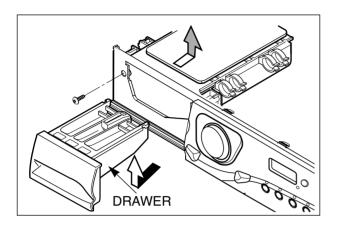


- ① Disconnect the PWB Assembly connector from Main lead wire Assembly.
- 2 Pull out the drawer and unscrew 2 screws.
- ③ Push upper hooks down on the top and pull the control panel.

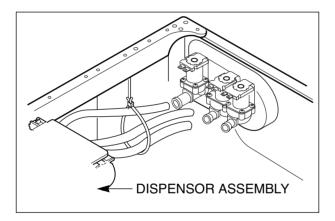


① Disconnect the PWB assembly (Main & Display) from the control panel by pushing 4 hooks down.

### **DISPENSER ASSEMBLY**

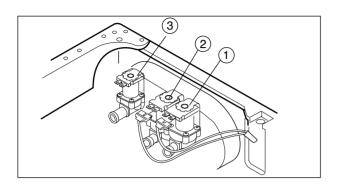


- $\ \, \textcircled{\ \, }$  Disassemble the top plate assembly.
- ② Pull out the drawer to arrow direction.
- ③ Unscrew 2 screws.



- ① The hose clamps and the hose are disassembled.
- ② The ventilation bellows and the water inlet bellows are disassembled on the tub.

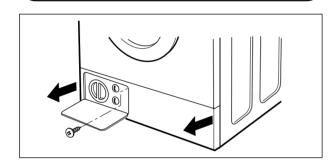
### **INLET VALVE**



- ① Disconnect the wiring receptacle.
- ② Unscrew 2 screws from the back.

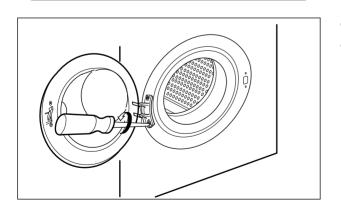
VALVE #1 (MAIN)	Whited/Black-Black
VALVE #2 (PRE)	White/Red - Black
VALVE #3 (HOT)	Blue/White - Black

### **LOWER COVER**



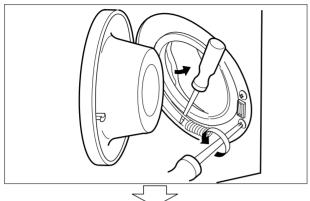
■ Open the lower cover plate by using coin and pull out the lower cover in the arrow direction after a screw is unscrewed.

### **DOOR**

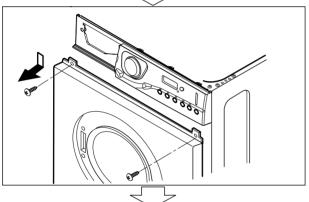


- ① Open the door completely.
- ② Remove the two screws from the hinge.
- When removing the door assembly, it is necessary to hold the bracket that is inner of the cabinet cover.

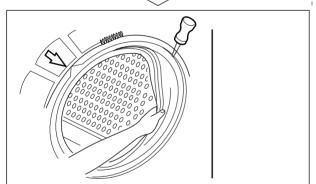
### **GASKET ASSEMBLY**



- ① Take apart the cabinet gasket clamp.
- ② Unscrew 2 screws from the cabinet cover.
- ③ Open the lower cover cap and unscrew 1 screw inside.
- ④ Take apart the lower cover.

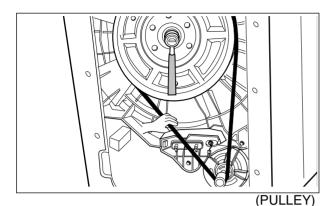


① Unscrew all the screws on the upper and lower sides of the cabinet cover.

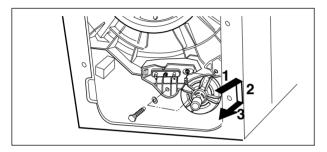


- ① Take apart the tub gasket clamp.
- ② Make sure that the drain hole of the gasket is put beneath when reassembling the gasket.
- \*Refer to the arrow mark on the tub cover.

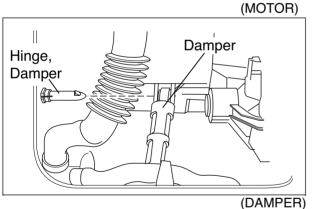
### **PULLEY, MOTOR, DAMPER**



- ① Remove the back cover.
- ② Take off the belt turning the pulley.
- (3) Unscrew the bolt to pull out the pulley.

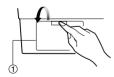


- ① Unscrew 2 screws from the bracket.
- ② Push the motor in the arrow direction for disassembling.
- ③ When reassembling the motor, make sure that motor mounting bushings are not taken off from the bracket.



- ① Pull out the hinge, pressing its snap.
- ② Do not use the pulled out hinge again. It may be taken off during operation.

### **■**Clean the drain pump filter



Open the lower cover cap (①) by using a finger Turn the drain plug (②) to pull out the hose.

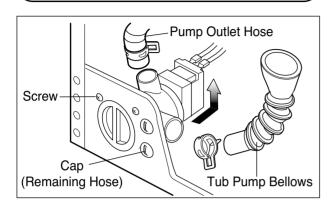


Unplug the drain plug (②), then the water flows out, At this time use a vessel to prevent water flowing on the floor. If the water does not flow any more,turn the pump filter (③) open to the left.



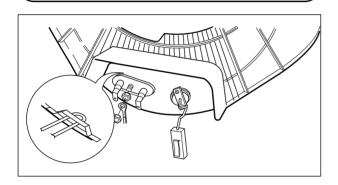
Take out any foreign material from the pump filter (③). After cleaning, turn the pump filter(③) clockwise and insert the drain plug (②) to the original place. close the lower cover cap.

### **PUMP**



- ① Remove pump outlet hose.
- ② Remove tub pump bellows.
- ③ Remove cap (Remaining Hose.)
- 4 Disconnect the wiring.
- ⑤ Unscrew 2 screws.
- ⑥ Remove the pump.

### **HEATER**

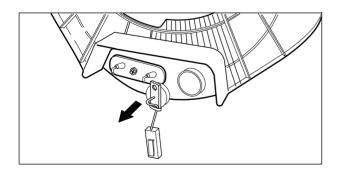


 $\ensuremath{\textcircled{1}}\xspace$  Loosen the M6 heater nut to pull out the heater.

### CAUTION

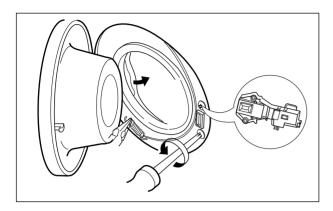
When mounting the heater, be sure to insert the heater into the heater clip on the bottom of the tub.

### **THERMISTOR**



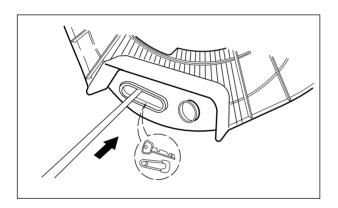
- ① Pull it out by holding the thermistor bracket.
- \* If it is pulled by the wire, it may be broken.
- ② When mounting the thermistor again, make sure that it is got back tight to the bushing.

### SWITCH ASSEMBLY, DOOR LOCK



- ① Take apart the cabinet cover clamp and release the gasket.
- ② Unscrew 2 screws holding the door lock.
- ③ Disconnect the door lock from the wiring connector.

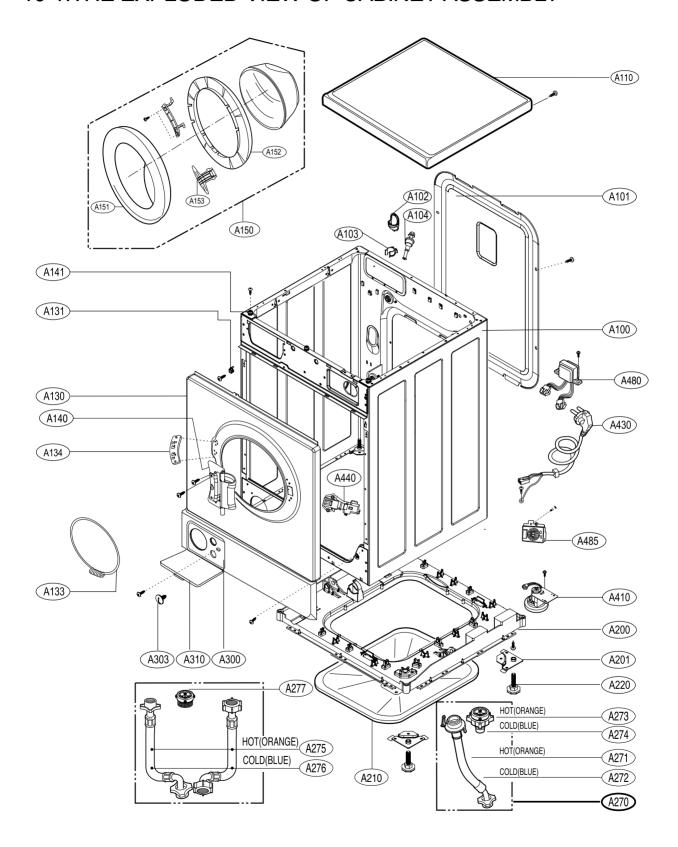
### WHEN FOREIGN MATERIAL IS STUCK BETWEEN DRUM AND TUB



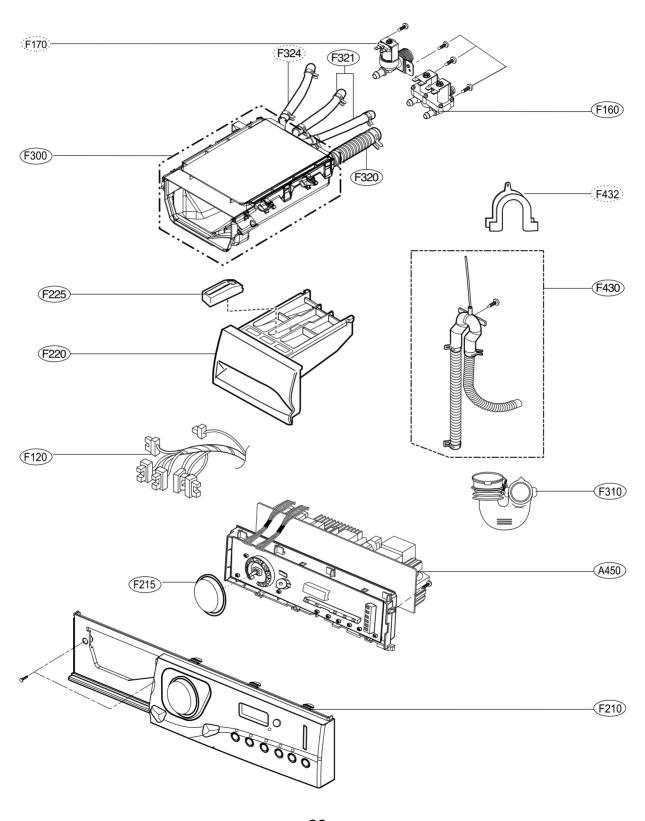
- ① Remove the heater.
- ② Remove the foreign material (wire, coin and others) by inserting a long bar through the hole.

## 10. EXPLODED VIEW

### 10-1.THE EXPLODED VIEW OF CABINET ASSEMBLY



### 10-2 THE EXPLODED VIEW OF CONTROL PANEL & DISPENSER ASSEMBLY



## 10-3 THE EXPLODED VIEW OF DRUM & TUB ASSEMBLY

