

# WASHING MACHINE SERVICE MANUAL

#### **CAUTION**

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

MODEL : LF 708C LF 711C



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# 1. SPECIFICATION

ІТ	ЕМ	LF 708C / LF 711C						
POWER	SUPPLY	240V~, 50Hz						
PRODUC <sup>-</sup>	ΓWEIGHT	63kg						
	WASHING	150W						
ELECTRICITY	SPIN (800rpm)	300W						
CONSUMPTION	DRAIN MOTOR	32W						
	WASH HEATER	2000W						
REVOLUTION	WASH	45rpm						
SPEED	SPIN	LF 708C	400/600/800 rpm					
		LF 711C	400/600/800/1100 rpm					
OPERATION WA	TER PRESSURE	0.3-10kgf/cm² (30-	1000kPa)					
CONTI	ROL TYPE	Electronic						
		7.0kg						
WASH C	APACITY	Synthetic (3.5kg), Delicate (3.0kg)						
		Wool (2.0kg), Hand Wash(2.0kg), Quick(2.0kg)						
DIME	NSION	$600$ mm(W) $\times$ 600mm(D) $\times$ 850mm(H)						
WASH P	ROGRAM	Cotton, Synthetic, Delicate, Wool, Hand Wash, Quick 30, Rinse Only						
0	P	Drip Dry, Bio, Rinse +, Eco, Pre-Wash, 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 LA	AUNDRY 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

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



#### Protection against wrinkles

With the alternate rotation of the drum, wrinkling 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 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.

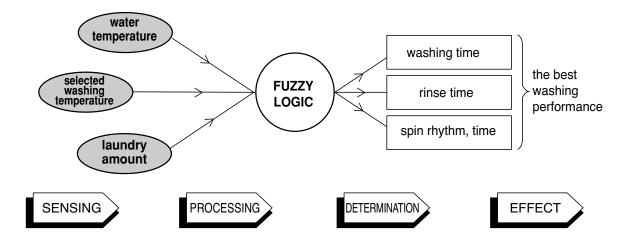


#### ■ Auto Restart

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.



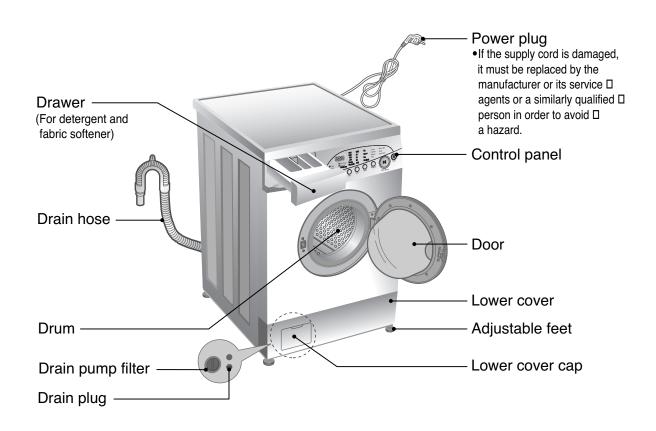
## 2-3.WATER LEVEL CONTROL

- 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

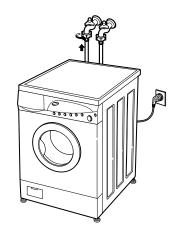
- 1 Before servicing ask the customer what the trouble is.
- 2 Check the adjustment (power supply is 240V, remove the transit bolts....)
- 3 Check the troubles referring to the troubleshooting.
- 4 Decide service steps referring to disassembly instructions.
- **5** Then, service and repair.
- 6 After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

The appliance should be installed as follows.

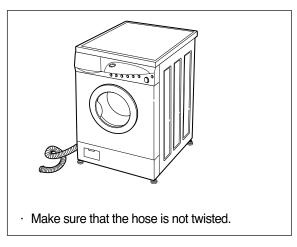
REMOVE THE TRANSIT BOLTS	INSTALL THE APPLIANCE ON FLAT AND FIRM SURFACE	ADJUST THE HORIZONTAL
<ul> <li>Remove the transit bolts (4EA:①) with supplied wrench.</li> <li>Keep the transit bolts and wrench for future use.</li> <li>Insert the 4 caps provided into the hole.</li> </ul>		Turn the adjustable feet to set the appliance horizontally.
		The appliance goes up by rotating the feet clockwise.  The appliance comes down by rotating the feet counterclockwise.

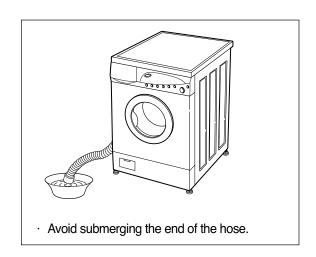
#### ■ HOW TO CONNECT INLET HOSE

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



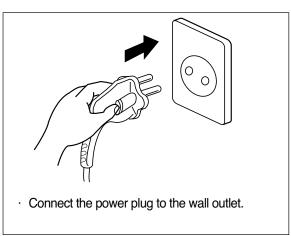
#### ■ CONNECT DRAIN HOSE

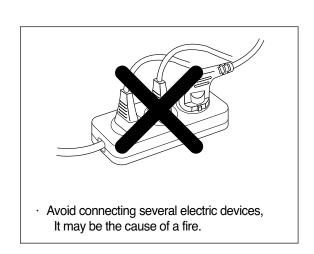




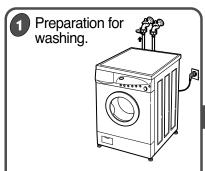
\* The drain hose should be placed under 100cm from the floor.

#### ■ CONNECT POWER PLUG





#### **Z** TEST OPERATION

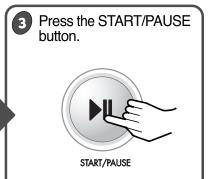


- Connect the power plug to the outlet.
- Connect the inlet hose.

2 Press the power button.



• In case of cotton program.



6 Check the water heating.



 Press the button 「TEMP」 and the present temperature will be displayed. 5 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 after pressing the Start/Pause button and start the machine again.
- · Check drain and spin.

Power off and open the door



- · Power off and then power on.
- · Check if the door can be opened after 3 minutes.

Water removal



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

#### **LED** display

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

(IE, DE, UE, dE, EE,

FE, PE, LE, 5E, EE )
• See trouble shooting guide.

#### Rinse hold

- If you desire to leave fabrics in the machine without spinning after rinse to prevent wrinkling, you may select rinse hold by pressing the spin button.
- If you want to drain and spin, when Rinse Hold function is proceed, Press the Start/Pause button to cancel the Rinse Hold function and select spin speed or program. Press the Start/Pause button again to start program.
- If you want to drain only, select the no spin or pump program.
- If lamp turns on, that function has been selected.

## 1000 800 600 400 No Spin Start/Pause Wash Child Lock Rinse Hold Rinse Drip Dry Spin TIME

## 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 both [Time Delay] and [Drip Dry] button simultaneously.
- Once Child Lock is set, all button are inoperable.
- Child Lock system can be set anytime even during Power-off and operation.
- It is automatically cancelled when an operational error occurs.

#### **Drip Dry**

• If you want to prevent Crease, select this button with spin.

#### **Option**

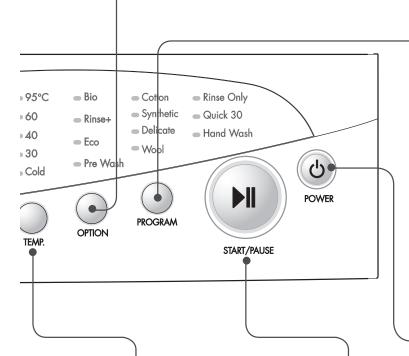
**Bio**: • If you want to elimenate protein stains(milk, blood, chocolate...), you may select Bio by pressing the option button.[You can select Bio when temperature is higher than 60° C in Cotton and Synthetic.]

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

**Eco**: • By selecting Eco, the water temperature is reduced and washing time is lengthened. So you can economize in your consumption of energy.[You can select Eco when temperature is higher than 60° C in Cotton and Synthetic.]

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

• Pre Wash is available in Cotton and Synthetic Program.



# Wash program selector

- 7 programs can be set depending on the type of the laundry.

## Water temperature selector

- Press the button to select water temperature.
- The water temperature [40° C  $\to$  60° C  $\to$  95° C  $\to$  Cold $\to$  30° C] can be selected in Cotton.
- 95° C is selected for Cotton only.
- By pressing the button while operating the washer, the present temperature is displayed.

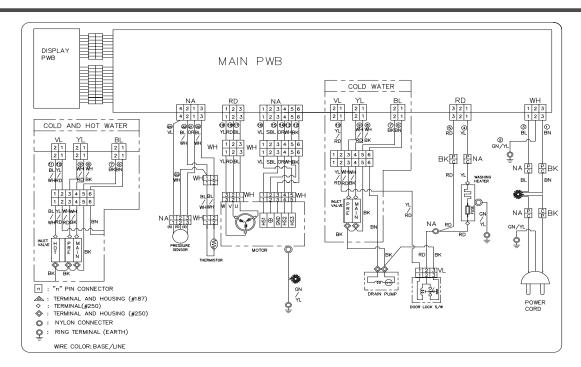
#### Start/Pause button

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

#### **Power button**

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

# 6. WIRING DIAGRAM / PROGRAM CHART



																*	Wa	iter	Su	pply	/ : V	٧·S		*	Inte	rmi	ten	t Sp	oin	: I-S	3	*	Dis	entangle : [	D∙T	
/√c						١	Washing					Rinse											Spin				A									
	Υ			Р	re				Ma	ain								Nor	ma							Rins	se +		Spili			E	U   T			
\	/c	; 		<		_		Was	shing	Sta	усоо	ling		1				2	:			3	3			4						N	ΙċΙ	Normal		
c/	S\ \T	E E	W . S	Washing	Drain	1 S	W S	Heating	Washing	W S	Rinsing	Drain	Drain	S	W · S	Rinsing	Drain	I S	W . S	Rinsing	Drain	- S	W S	Rinsing	Drain	  -   S	₩ . S	Rinsing	Drain	Spin	D·Τ	D	OFF	Working Time (Hour:Minut	9	
	\ \	\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	(11001.1411101	(Hour:Minute)	
U R S E	1	ime SEC)	120	MIN	60	240	120		MIN	120	60	60	60	240	120	360	60	240	120	360	60	240	120	360	60	240	120	360	60	480	120	20	20			
С	ottc	on		8					53 53		><	/																						About 1:5	55	
Syr	nthe	etic		$\geq$	$\leq$				4 24		><	<															REERE							About 1:2	28	
De	lica	ate	_	>	<	$\overline{}$			18		><	<											Г	Г										About 5	8	
٧	Voc	ol		$\geq$	<	$\leq$			18		><	$\setminus$																						About 5	58	
Han	ıdw	ash		$\geq$	<	$\leq$			24		><	$\langle$																						About 5	57	
Qu	ick	30		$\geq$	$\leq$	$\leq$					><	$\langle$																						About 3	30	
Rin	se C	On <b>l</b> y				$\geq$	$\geq$	>	<	$\leq$	$\leq$	$\leq$																						About 1	19	
5	Spir	1											About 1	11																						

Basic Cycle

- \* 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 elimenate 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.

<sup>\*</sup> Pre-Setting Time : Water Supply - 120 sec.

Drain

<sup>- 120</sup> sec. - 60 sec. ture or the amount of laundry \* ~ Time for varies as the temperature or

Basic time is minute in washing chart
The actual program time can be varied with the load amount, water temperature or ambient temperature

# 7. TROUBLESHOOTING

## 7-1.BEFORE PERFORMING SERVICE

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

## 7-2.QC TEST MODE.

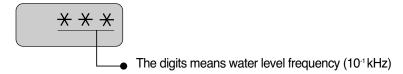
- 1) Pressing **Drip Dry**, and SPIN button simultaneously.
- 2 Power supply ON with pressing upper two button. then buzzer sound twice.
- ③ Press the START/PAUSE button as follows.

[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	<i>18:88</i>					
1 time	Clockwise spin (right)	Motor rpm (About 45)					
2 times	Low speed Spin	Motor rpm (About 63~67)					
3 times	High angod Chin	Motor rpm (About 79~85) : LF 708C					
	High speed Spin	Motor rpm (About 100~106) : LF 711C					
4 times	Inlet valve for pre-wash operation	Water level frequency (25~65)					
E time on	Inlet valve for main-wash operation	Water level frequency (25~65)					
5 times	Hot inlet valve in case of hot water fill						
6 times	Inlet valve for main-wash operation	Water level frequency (25~65)					
7 times	Counterclockwise spin (left)	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 **Spin** and **Temp**. button simultaneously.



ex) 241 : Water level frequency =  $241 \times 10^{-1}$ kHz = 24.1kHz

# 7-4.ERROR DISPLAY.

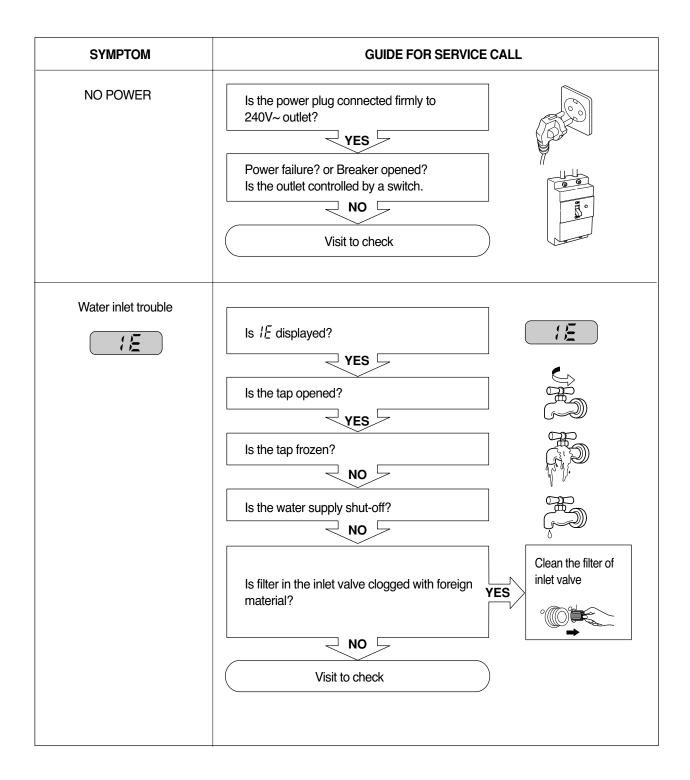
- If you press the [Start/Pause] button any error except \$PE\$ will disappear and the machine will change into pause status.
- In case of  ${}^{\mathbb{F}}PE_{\mathbb{J}}$ ,  ${}^{\mathbb{F}}EE_{\mathbb{J}}$ ,  ${}^{\mathbb{F}}dE_{\mathbb{J}}$ , if the error is not resolved within 20 sec. In case of 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  ${}^{\mathbb{F}}FE_{\mathbb{J}}$ , power will not be turned off.

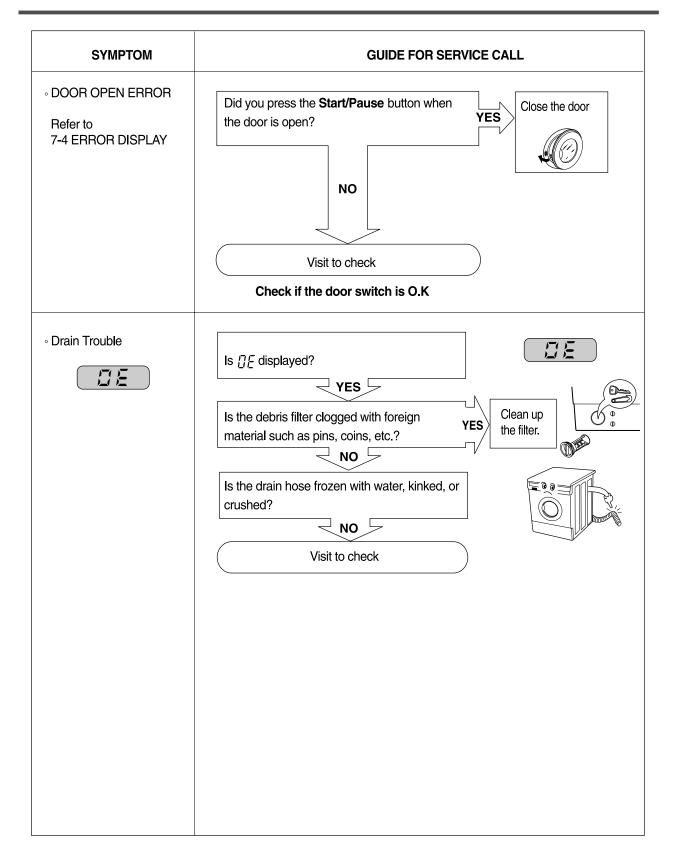
	ERROR	SYMPTOM	CAUSE
1	WATER INLET ERROR	( ;E	O Water has not reached to the pre-set level within 4 min. since inlet valve operated, or water has not reached to the normal level within 25 min.
2	IMBALANCE ERROR	LIE	<ul> <li>The appliance is tilted.</li> <li>Laundry is gathered to one side.</li> <li>Non 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	The sensor pressure switch is out of order.
6	DOOR OPEN ERROR	<b>2</b>	<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	EE	O The thermistor is out of order.
8	SENSOR ERROR	<b>5 E</b>	<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	55	<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.</li> <li>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.</li> <li>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.</li> <li>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	C.E.	<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		<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



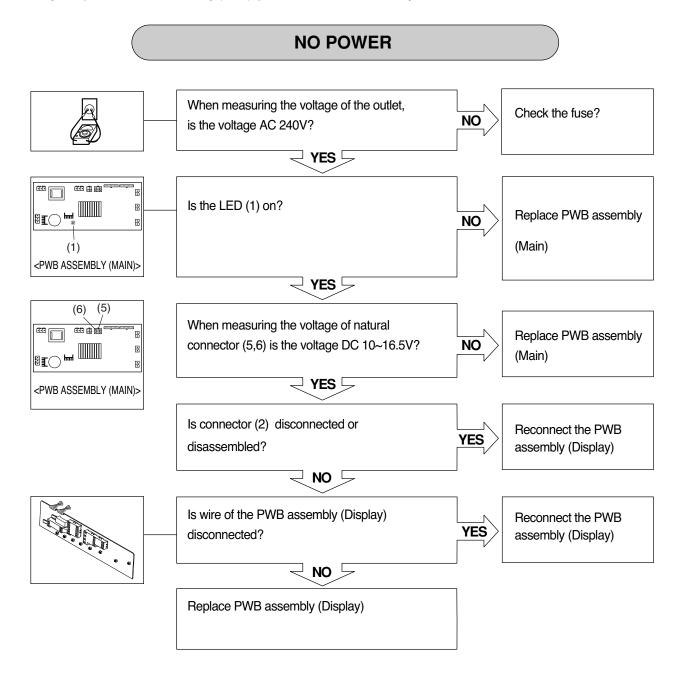


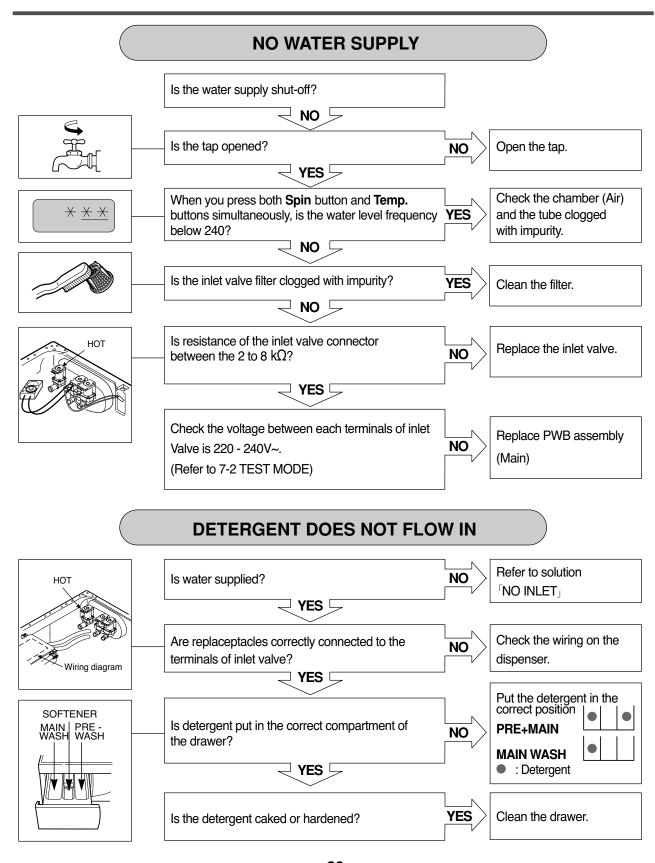
SYMPTOM	GUIDE FOR SERVICE CA	ALL			
<ul> <li>Suds overflow from the appliance.</li> <li>(In this condition, wash and spin do not operate normally)</li> </ul>	Is low-sudsing detergent for the durm washing machine used?  YES  Is the proper amount of detergent used as recommended?  YES  Recommend to reduce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

## 8-2. FAULT DIAGNOSIS AND TROUBLESHOOTING

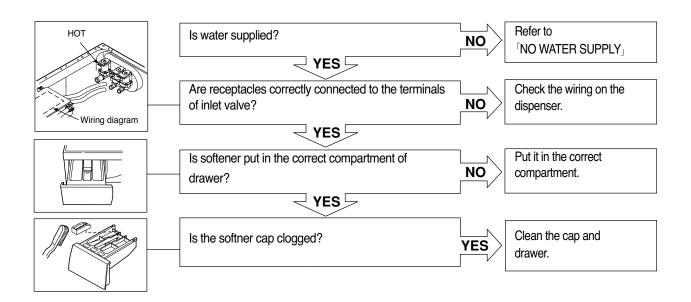
## CAUTION

- 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.

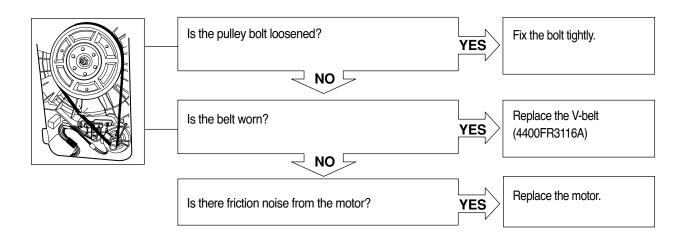




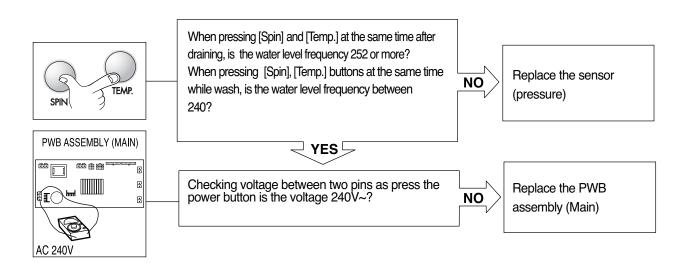
#### **SOFTENER DOES NOT FLOW IN**



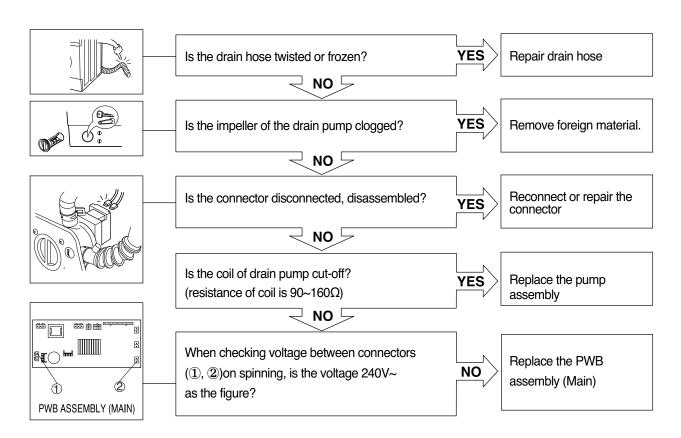
#### **ABNORMAL SOUND**

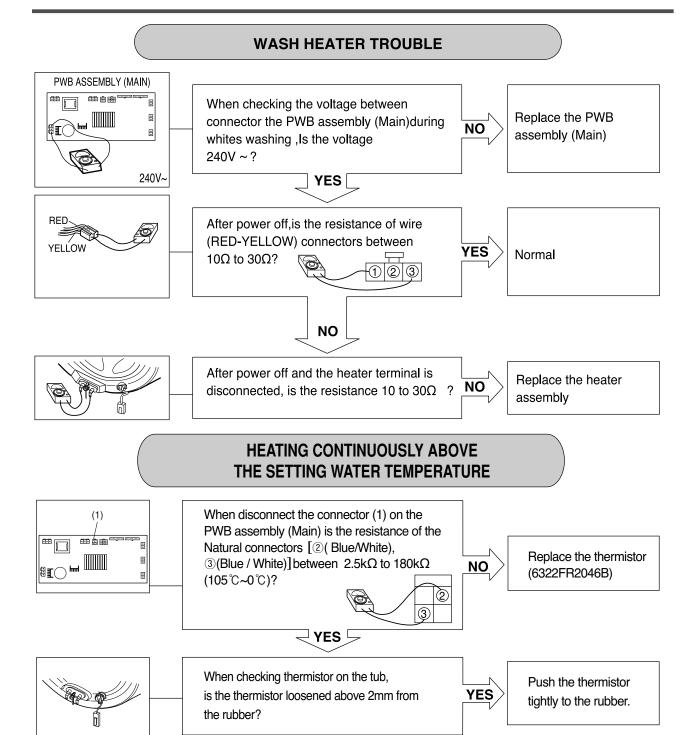


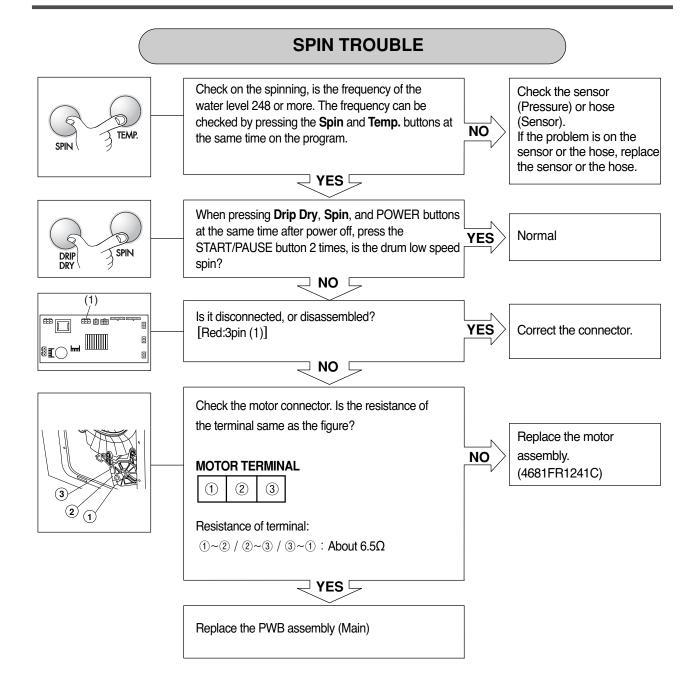
#### **HEATING WITHOUT WATER**



#### **DRAIN MALFUNCTIONING**



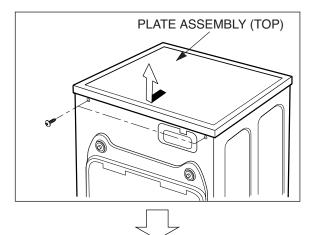




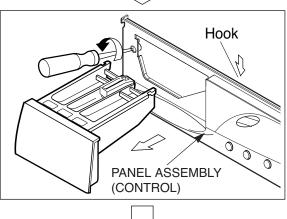
# 9. DISASSEMBLY INSTRUCTIONS

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

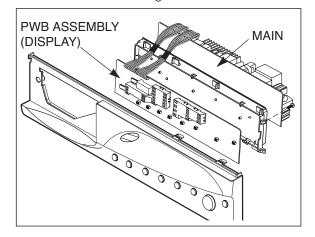
## **CONTROL PANEL**



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

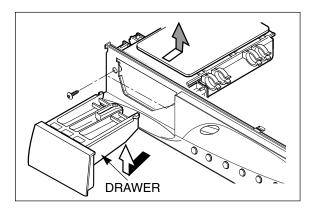


- ① Disconnect the PWB Assembly connector from Main lead wire Assembly.
- 2 Pull out the drawer and unscrew 2 screws.
- ③ Push upper hooks down on the top and pull the control panel.

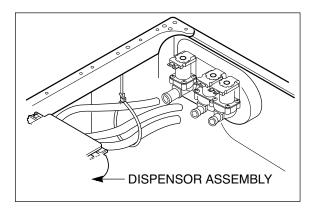


① Disconnect the PWB assembly (Main & Display) from the control panel by pushing 4 hooks down.

# **DISPENSER ASSEMBLY**

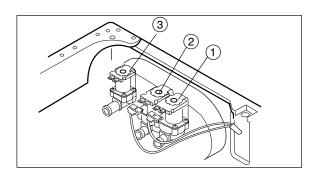


- ① Disassemble the top plate assembly.
- ② Pull out the drawer to arrow direction.
- 3 Unscrew 2 screws.



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

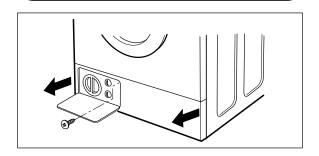
## **INLET VALVE**



- ① Disconnect the wiring receptacle.
- 2 Unscrew 4 screws from the back.

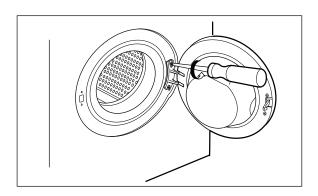
VALVE #1 (MAIN)	Whited/Black-Black
VALVE #2 (PRE)	White/Red - Black
VALVE #3 (HOT)	Blue/White - Black

## **LOWER COVER**



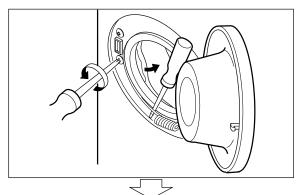
■ Open the lower cover plate by using coin and pull out the lower cover in the arrow direction after a screw is unscrewed.

## **DOOR**

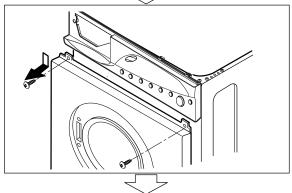


- ① Open the door completely.
- ② Remove the two screws from the hinge.
- When removing the door assembly, it is necessary to hold the bracket that is inner of the cabinet cover.

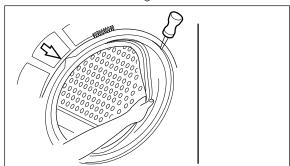
## **GASKET ASSEMBLY**



- 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.
- ① Take apart the lower cover.

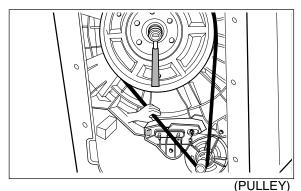


① Unscrew all the screws on the upper and lower sides of the cabinet cover.

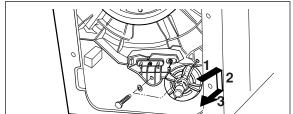


- ① Take apart the tub gasket clamp.
- ② Make sure that the drain hole of the gasket is put beneath when reassembling the gasket.
- \*Refer to the arrow mark on the tub cover.

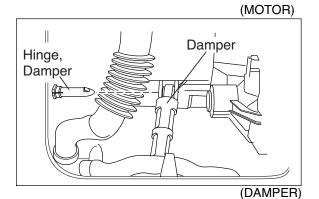
## **PULLEY, MOTOR, DAMPER**



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

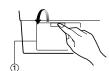


- ① Unscrew 2 screws from the bracket.
  - ② Push the motor in the arrow direction for disassembling.
  - When reassembling the motor, make sure that motor mounting bushings are not taken off from the bracket.



- 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) )

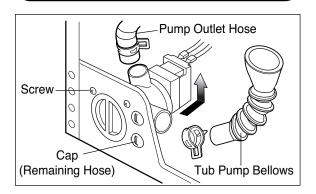


Unplug the drain plug (②), then the water flows out, At this time use a vessel to prevent water flowing on the floor. If the water does not flow any more,turn the pump filter (③) open to the left.



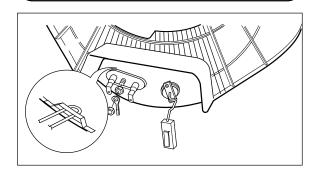
Take out any foreign material from the pump filter (③). After cleaning, turn the pump filter(③) clockwise and insert the drain plug (②) to the original place. close the lower cover cap.

## **PUMP**



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

#### **HEATER**

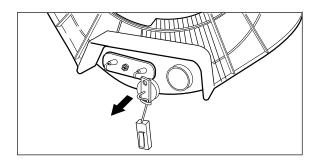


① Loosen the M6 heater nut to pull out the heater.

## CAUTION

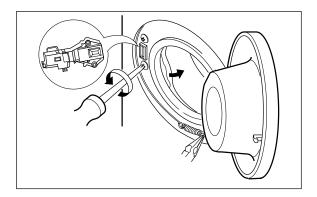
When mounting the heater, be sure to insert the heater into the heater clip on the bottom of the tub.

#### **THERMISTOR**



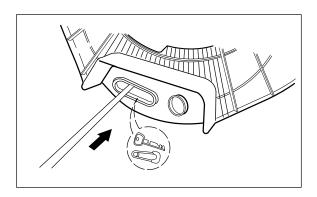
- ① Pull it out by holding the thermistor bracket.
- \* If it is pulled by the wire, it may be broken.
- ② When mounting the thermistor again, make sure that it is got back tight to the bushing.

# 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.

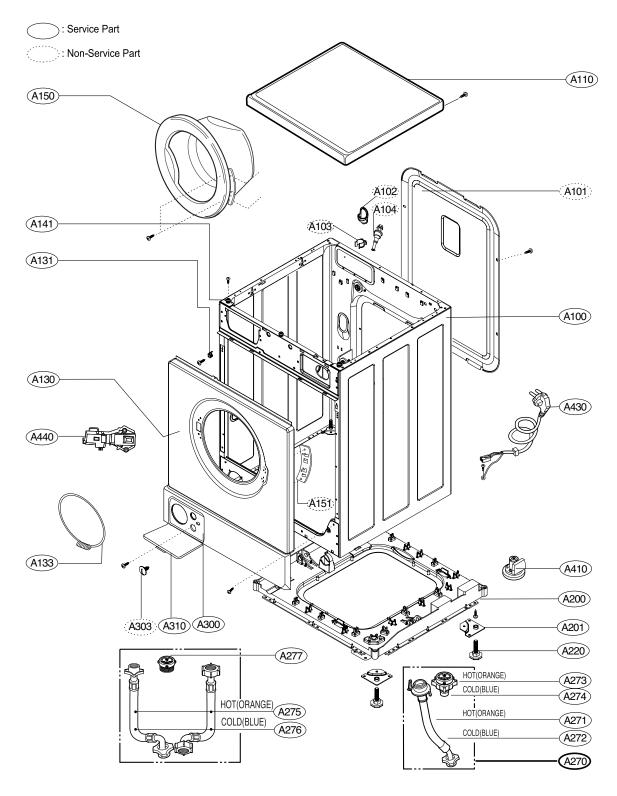
# WHEN FOREIGN MATERIAL IS STUCK BETWEEN DRUM AND TUB



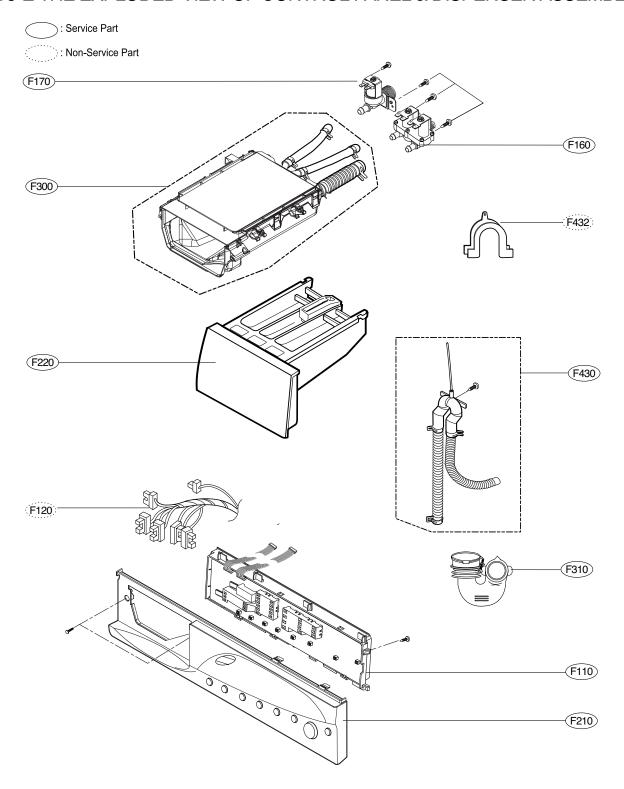
- ① Remove the heater.
- ② Remove the foreign material (wire, coin and others) by inserting a long bar through the hole.

# 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

