

WASHING MACHINE SERVICE MANUAL

CAUTION

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

MODEL: WM2411HW/WM2011 HS

WM2011HW / WM1811CW

WM2432HW / WM2032 HS

WM2032HW / WM1832CW



DEC. 2002 PRINTED IN KOREA

P/No.:3828ER3013T

CONTENTS

1. SPECIFICATIONS	3
2. FEATURES & TECHNICAL EXPLANATION	4
3. PARTS IDENTIFICATION	6
4. INSTALLATION	7
5. OPERATION	10
6. WIRING DIAGRAM / PROGRAM CHART	13
7. TROUBLESHOOTING	15
7-1. BEFORE PERFORMING SERVICE	15
7-2. QC TEST MODE	15
7-3. HOW TO CHECK THE WATER LEVEL FREQUENCY	15
7-4. ERROR DISPLAY	16
8. ERROR DIAGNOSIS AND CHECK LIST	18
8-1. DIAGNOSIS AND SOLUTION FOR ABNORMAL OPERATION	18
8-2. FAULT DIAGNOSIS AND TROUBLESHOOTING	21
9. DISASSEMBLY INSTRUCTIONS	28
10. EXPLODED VIEW	36
10-1. CABINET & CONTROL PANEL ASSEMBLY	36
10-2. DRUM & TUB ASSEMBLY	37
10-3 DISPENSER ASSEMBLY	38

1. SPECIFICATIONS

			T							
п	EM	WM2411HW WM2432HW	WM2011HS / WM2011HW WM2032HS / WM2032HW	WM1811CW WM1832CW						
POWER	SUPPLY	120V ~ 60Hz								
PRODUC [*]	T WEIGHT	190 lbs. (86 kg)								
ELECTRIC	WASHING		235W							
POWER	DRAIN MOTOR		80W							
CONSUMPTION	WASH HEATER		1000W	_						
REVOLUTION	WASH		42 rpm	•						
SPEED	SPIN	0-1200 rpm	0-1000 rpm	0-900 rpm						
C,	YCLES	9	7	5						
WASH / RINSE T	EMPERATURES	6	5	4						
SPIN S	PEEDS	6 5 5								
OPT	IONS	Prewash, Stain Cycle, Quick Cycle, Extra Rinse, Rinse+Spin, Delay Wash								
CUSTOM	PROGRAM	Incorporated								
WATER CI	RCULATION	Incorporated -								
OPERATIONAL W	ATER PRESSURE	4.5-145 psi (30-1000 kPa)								
CONTR	OL TYPE	Electronic								
WASH C	APACITY	3.22 cu.ft (3.72 cu.ft.IEC)								
DIMEN	ISIONS	27"(W) X 29 $-\frac{1}{2}$ "(D) X 42 $-\frac{3}{4}$ "(H), 49 $-\frac{4}{5}$ "(D, door open)								
DELAY	WASH	up to 19 hours	up to 19 hours up to 12 hours up to 9							
DOOR SW	ITCH TYPE	PTC + Solenoid								
WATER	LEVEL	7 steps (by sensor)								
LAUNDRY LC	AD SENSING		Incorporated							
ERROR D	IAGNOSIS		Incorporated							
AUTO PO	WER OFF		Incorporated							
CHILD	LOCK	Incorporated								
DOOR SW WATER LAUNDRY LO ERROR D	ITCH TYPE LEVEL DAD SENSING IAGNOSIS	up to 19 nouis	PTC + Solenoid 7 steps (by sensor) Incorporated Incorporated	up to 9 hours						

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 (WM2411HW, WM2011HS, WM2011HW, WM2432HW, WM2032HS, WM2032HW)

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

(WM2411HW, WM2011HS, WM2011HW, WM2432HW, WM2032HS, WM2032HW)

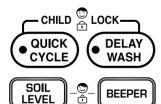
The washing ball enhances wash performance and reduces damage to clothing. The jets spray and help tumble clothes to enhance washing performance while maintaining fabric care.



■ Built-in Heater

(WM2411HW, WM2011HS, WM2011HW, WM2432HW, WM2032HS, WM2032HW)

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

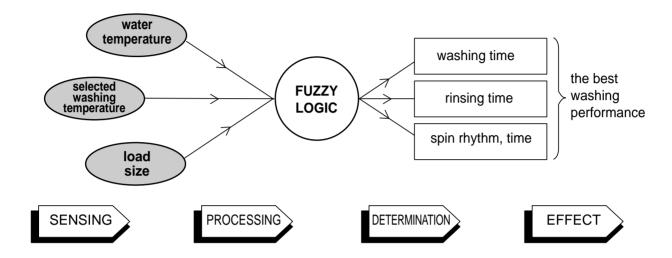


■ Child Lock

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

2-2.FUZZY LOGIC 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.



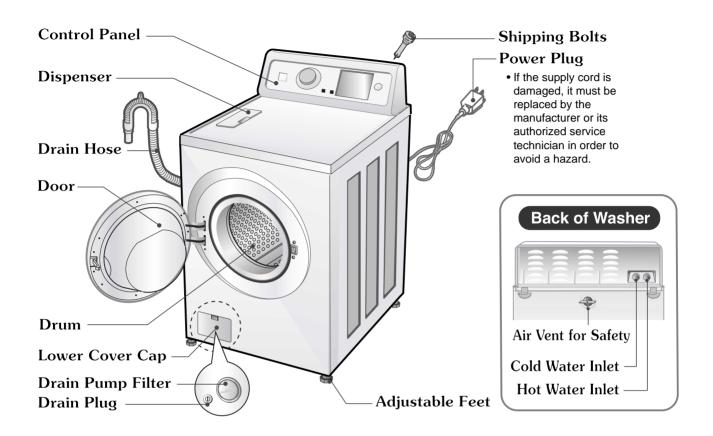
2-3.WATER LEVEL CONTROL

- 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.

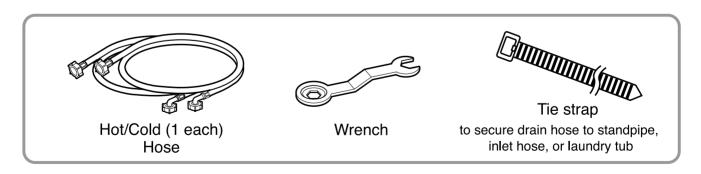
2-4.DOOR CONTROL

- 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 lock for 5 minutes.
- Clicking sounds can be heard when the door is locked / unlocked.

3. PARTS IDENTIFICATION



ACCESSORIES



4. INSTALLATION

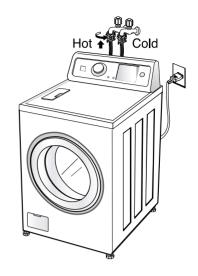
- 1 Before servicing, ask the customer what the trouble is.
- 2 Check the setup (power supply is 120V AC, remove the transit bolts....).
- 3 Check with the troubleshooting guide.
- 4 Plan your service method by referring to the disassembly instructions.
- 5 Service the unit.
- 6 After servicing, operate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

The appliance should be installed as follows:

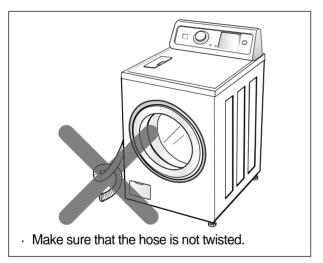
REMOVE THE TRANSIT	INSTALL THE APPLIANCE	ADJUST THE
BOLTS	ON A FLAT AND FIRM SURFACE	LEVELING
Remove the transit bolts (4 EA: ①) with the supplied wrench.	<u>à â</u>	Turn the leveling feet to adjust the appliance horizontally.
 Keep the transit bolts and spanner for future use. Insert the 4 caps 		
(provided) into the hole.		Lower
		The appliance goes up by rotating the feet clockwise.The appliance come down by
		rotating the feet counterclockwise.

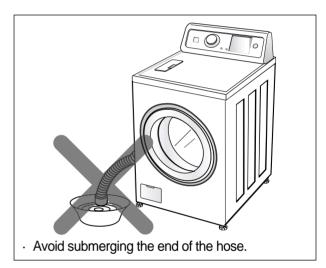
■ HOW TO CONNECT THE INLET HOSE

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



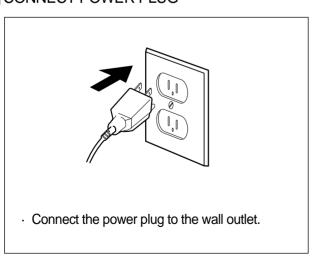
■ CONNECT THE DRAIN HOSE

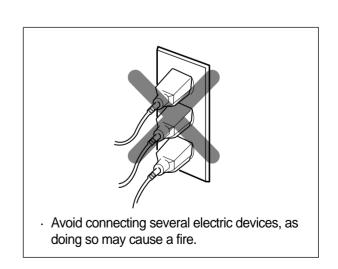




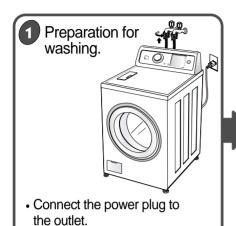
* The end of the drain hose should be placed less than 96" from the floor.

■ CONNECT POWER PLUG

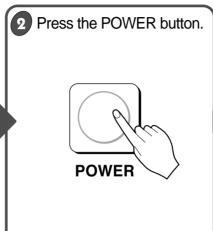


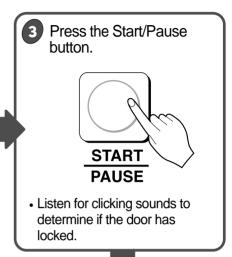


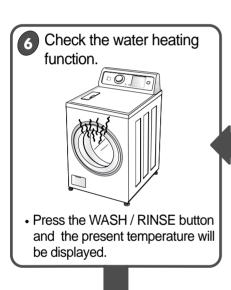
7 TEST OPERATION

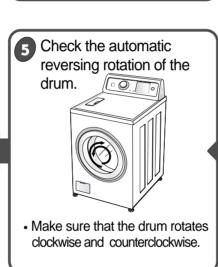


· Connect the inlet hose.

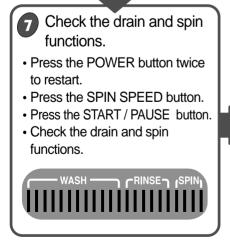


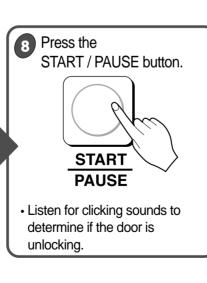


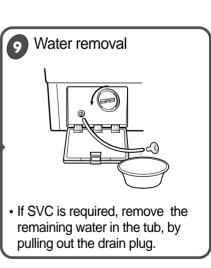












• POWER button

 Use this button to turn the power On / Off.

DOOR LOCKED lamp

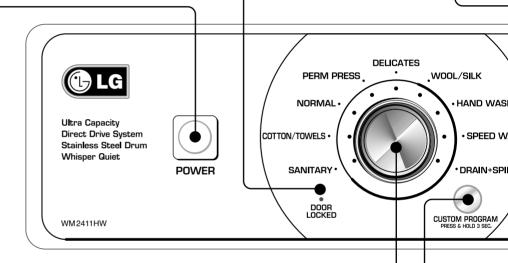
- Lights whenever the door is locked.
- The door can be unlocked by pressing the Start / Pause button to stop the washer.

• BEEPER b

• Choose High / Low

CYCLE SELECTOR knob

 Rotate the Cycle selector knob to select the cycle designed for different types of fabric and soil levels.



CUSTOM PROGRAM button

- Allows you to store a customized wash cycle for future use.
- To create a Custom Program :
 - 1) Select a cycle.
 - 2) Select the other desired Wash / Rinse Temp., Spin Speed, Soil Level.
 - 3) Select the desired Options.
 - 4) Press and hold the Custom Program button for 3 seconds (2 beep sounds).
 - 5) Press the **Start / Pause** button.
 The Custom Program is now stored for future use.
- To reuse the program, select **Custom Program** and press **Start / Pause**.

WASH / RINSE temp. SPIN SPEED, SOIL LEVI

- Select a water temperature based of load you are washing.
- To change the spin speed, select th Spin Speed button until the desired displayed.
- To change the soil level, select the button until the desired setting is dis

utton

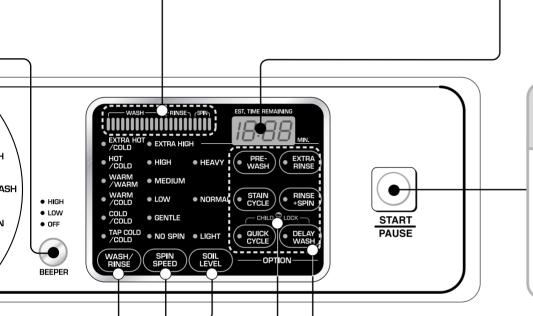
/ Off.

STATUS INDICATOR

• These lights show elapsed time of the selected cycle.

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.



START/PAUSE **button**

 Use this button to Start / Stop the washer.

L button

n the type of

setting is

Soil Level played.

CHILD LOCK

- Use this option to prevent unwanted use of the washer. Press and hold Quick Cycle and Delay Wash button for 3 seconds to lock / unlock control.
- When Child lock is set, " [L" blinks and all buttons are disabled but the Power button. You can thereby lock the washer while it is operating.

OPTION button

Prewash

: Use this option for loads that need pretreatment. It adds 16 minutes prewash and drain.

• Stain Cycle : Adds time to the wash and rinse cycles for better stain removal. Automatically provides a

rinse.

• Quick Cycle: The Quick cycle offers a quick cycle time.

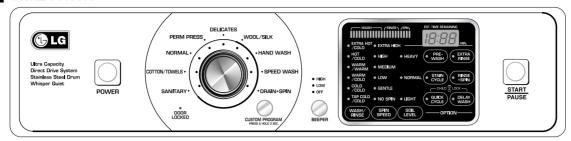
• Extra Rinse : This option provides an additional rinse cycle.

• Rinse+Spin : Use this option to rinse and then spin.

• Delay Wash : Allows the start of any cycle to be delayed for

1~19(12, 9) hours.

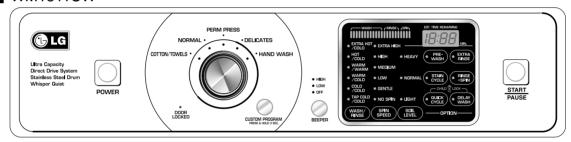
■ WM2411HW



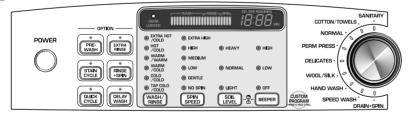
■ WM2011HS / WM2011HW



■ WM1811CW



■ WM2432HW



■ WM2032HS / WM2032HW

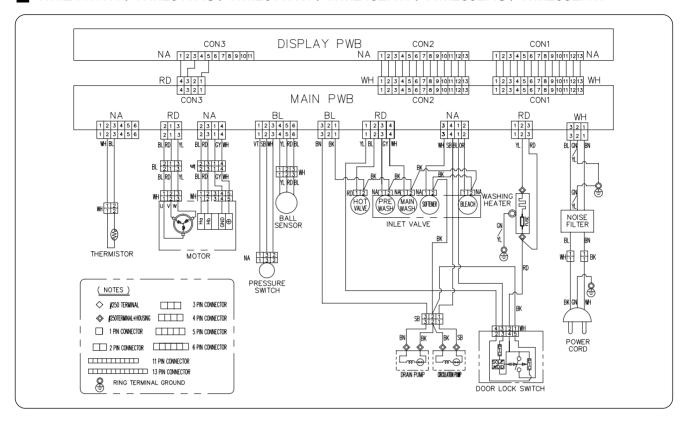


■ WM1832CW

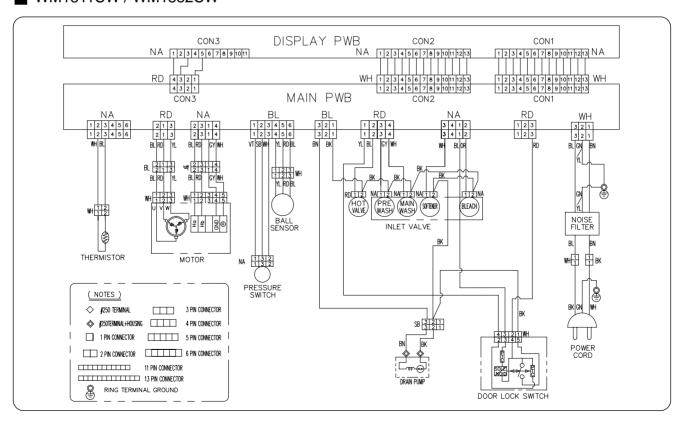


6. WIRING DIAGRAM / PROGRAM CHART

■ WM2411HW / WM2011HS / WM2011HW / WM2432HW / WM2032HS / WM2032HW



■ WM1811CW / WM1832CW



PROGR	ΑΙ	AM CHART * Water Supply : W·S * Intermittent Spin : I·S * Disentangle									ıgle : D∙T																							
√ C	L				٧	Vas	hin	hing											Rir	se								, ا	Spin			A		
\\\\Y	L		Р	re				Ma	ain						Nor	ma				Ext	tra o	r Sta	ain	Ex	tra 8	& Sta	ain	L`	Jpii	_	ļΕ	U		
//\c'	I.	,,	>			١٨/	Was	shing	Sta	усоо	ling						2	2			3	3			3	3					N	0	Norm	al I
C T E	:	N S	Washing	Drain	- S	W S	Heating	Washing	W S	Rinsing	Drain	Drain	- S	8 0	Rinsing	Drain	- S	W S	Rinsing	Drain	- S	W S	Rinsing	Drain	- S	W S	Rinsing	Drain	Spin	D·Τ	D	O F F	Worki Time (Hour:Mi	ng e
U\\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	(11001.1411	
R Tim	e ;)	60 N	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		
Sanitary		***	8					66		TIME												*****									┢		About 1	1:44
Cotton /Towels			8					19	\	<u> </u>											*****												About	57
Normal			8					19		\sim										*****	*****	*****											About	56
Perm Press	s		8	*****				17	/	><										****	*****	••••											About	53
Delicates			8.	*****				13	$/\setminus$	><	//									****	****			$/\setminus$	\geq	\leq	\leq						About	34
Wool/Silk		\geq	>	\leq	\leq			13	$/\setminus$	<u>~</u>										KKKKK	*****	*****		/ \	\geq	<	\leq						About	34
Hand Wash		\geq	>	<	\langle			13		\geq	<									*****		•••••		_	>	<	<						About	34
Speed Was	h	\geq	>	\leq				7		><	\langle				120		*****		120		*****	*****	120		>	<	\leq						About	29
Drain+Spir	۱ ا									=						_	_	_															About	12
Wash + Rinse	(8)	***	8.	****	*****			19		><										****	*****	•••••		*****	*****					\geq	\leq		About	45
Rinse + Spin					\leq	\leq	<u> </u>	_	=	\leq										*****	****	*****		\ \	>	<	\leq						About	29
Rinse			_		\geq	\geq	<u> </u>	_	\leq	\leq	\leq										****	****		_	\geq	<	\leq			\geq	\leq		About	18

^{*} Basic Cycle

* Optional Cycle

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

Drain - 60 sec.

^{*} 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 when disconnecting parts for while troubleshooting.
- The voltage of each terminal is 120V 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.

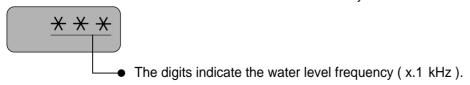
- press the SPIN SPEED and SOIL LEVEL buttons simultaneously.
- ¤ŁPress the Power button, while the above condition. Then buzzer sound twice.

¤ØIn order to advance to the next step of test mode, press the START / PAUSE button once.

Number of times the Start/Pause button is pressed	Check Point	Display Status
None	Turns on all lamps and locks the door.	(8:88 ¹⁾
1 time	Tumble clockwise.	rpm (40~50)
2 times	Low speed Spin.	rpm
3 times	High speed Spin.	rpm
4 times	Inlet valve for prewash turns on.	Water level frequency (25~65)
5 times	Inlet valve for main wash turns on.	Water level frequency (25~65)
6 times	Inlet valve for hot water turns on.	Water level frequency (25~65)
7 times	Inlet valve for softener turns on.	Water level frequency (25~65)
8 times	Inlet valve for bleach turns on.	Water level frequency (25~65)
9 times	Tumble counterclockwise.	rpm (40~50)
10 times	Heater turns on for 3 sec.	Water temperature
11 times	Circulation pump turns on.	Water level frequency (25~65)
12 times	Drain pump turns on.	Water level frequency (25~65)
13 times	Power off and unlock the door.	Turn off all lamps.

7-3. HOW TO CHECK THE WATER LEVEL FREQUENCY

* Press the SPIN SPEED and SOIL LEVEL button simultaneously.



So, for example a display indicating 241 : a Water level frequency of 241 x.1 kHz = 24.1 kHz

7-4. ERROR DISPLAY

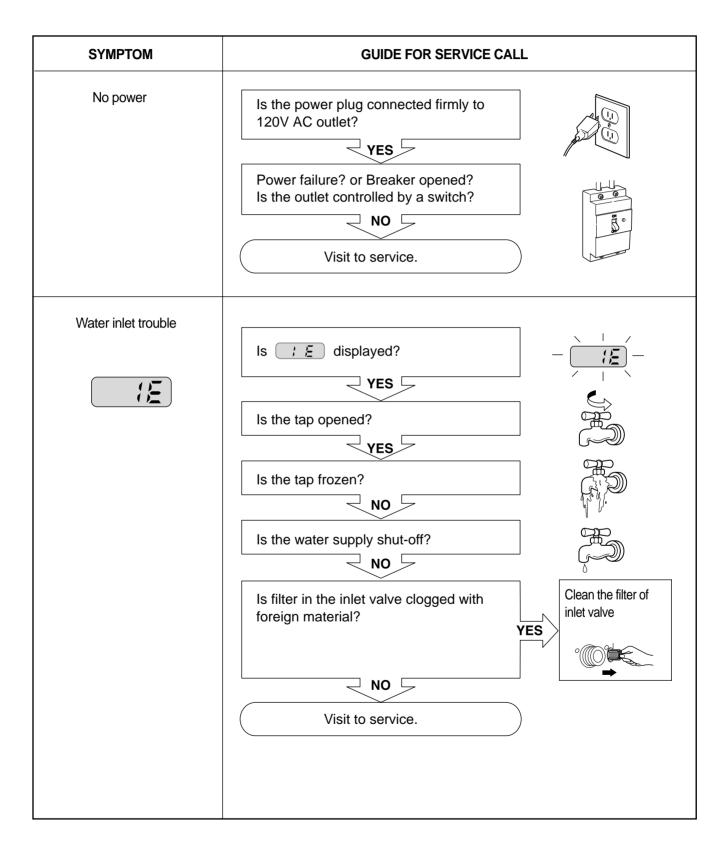
- If you press the START/PAUSE button when an error is displayed, any error except <code>"PE"</code> will disappear and the machine will go into the pause status.
- In case of <code>FFE</code> , <code>FEE</code>, <code>FGE</code> if the error is not resolved within 20 sec., or the in case of other errors, 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>, power will not be turned off.

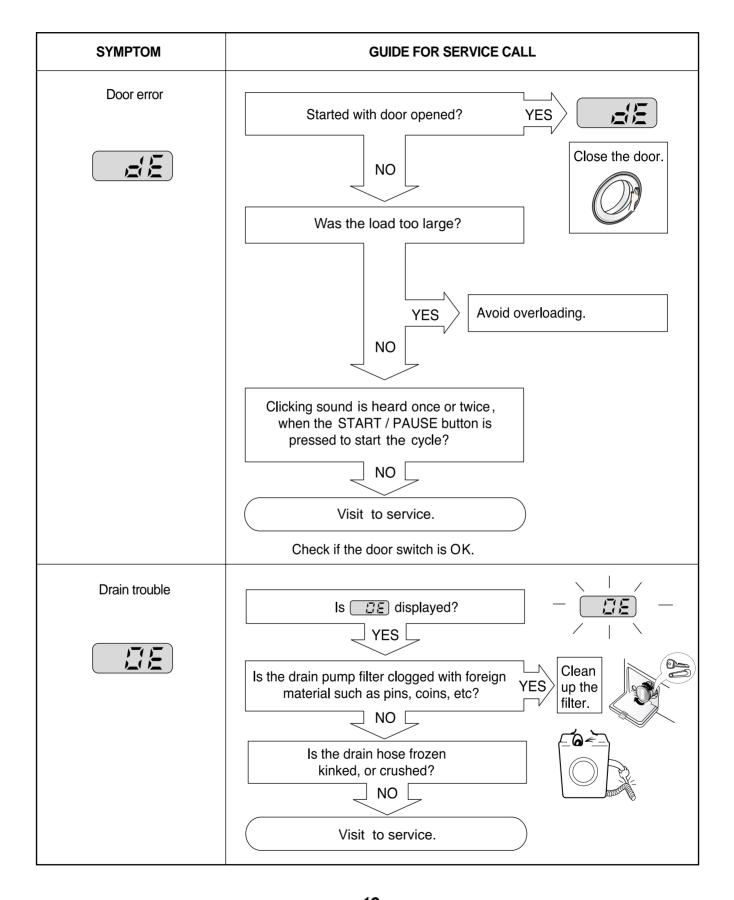
	ERROR	SYMPTOM	CAUSE
1	WATER INLET ERROR	; ξ	Correct water level (2 level) is not reached within 8 minutes after water is supplied or it does not reach the preset water level within 25 minutes.
2	IMBALANCE ERROR		 The load is too small. The appliance is tilted. Laundry is gathered to one side. Non distributable things are put into the drum.
3	DRAIN ERROR		Not fully drained within 10 minutes.
4	OVER FLOW ERROR	FE	Water is overflowing (over 8 level). If FE is displayed, the drain pump will operate to the drain water automatically.
5	PRESSURE SENSOR ERROR	FE	The SENSOR SWITCH ASSEMBLY is out of order.
6	DOOR OPEN ERROR	E	 Door not all the way closed. Loose electrical connections at Door switch and PWB Assembly. The DOOR SWITCH ASSEMBLY is out of order.
7	HEATING ERROR	EE	The THERMISTOR is out order.

	ERROR	SYMPTOM	CAUSE
8	OVER CURRENT ERROR		MAIN PWB ASSEMBLY is out of order. Winding in the STATOR ASSEMBLY is short-circuited.
9	LOCKED MOTOR ERROR	LE	 The connector (3-pin, male, white) in the MOTOR HARNESS is not connected to the connector (3-pin, female, white) of STATOR ASSEMBLY. The electric contact between the connectors (3-pin, male, white) in the MOTOR HARNESS and 4-pin, female, white connector in the MAIN PWB ASSEMBLY is bad or unstable. The MOTOR HARNESS between the STATOR ASSEMBLY and MAIN PWB ASSEMBLY is cut (open circuited). The hall sensor is out of order/defective.
10	BALL SENSOR ERROR	5 E	 Loose Ball Sensor Connector. Ball Sensor is out of order. Displayed only when the START / PAUSE button is first pressed in the QC Test Mode.
11	EEPROM ERROR	EE	EEPROM is out of order. Displayed only when the START / PAUSE button is first pressed in the QC Test Mode.
12	POWER FAILURE	FE	The washer experienced a power failure.

8. ERROR DIAGNOSIS AND CHECK LIST

8-1.DIAGNOSIS AND SOLUTION FOR ABNORMAL OPERATION



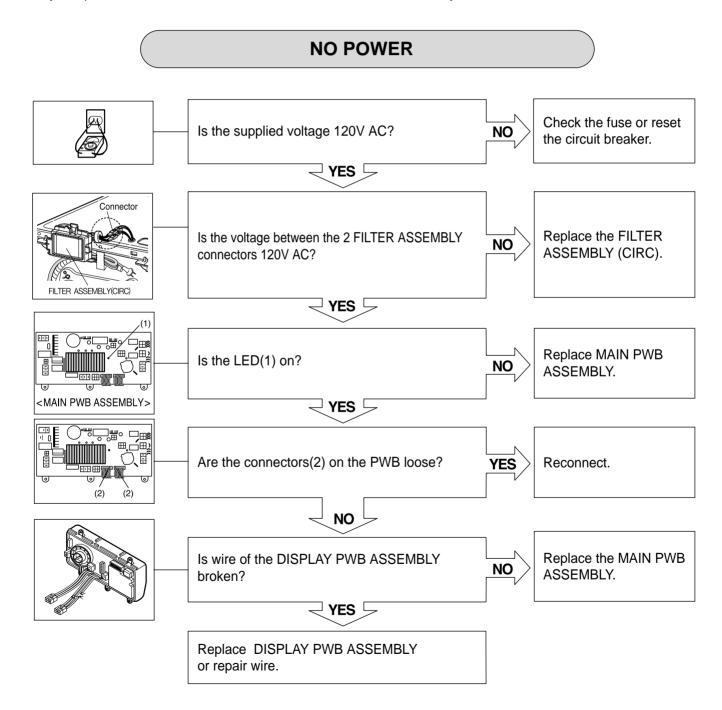


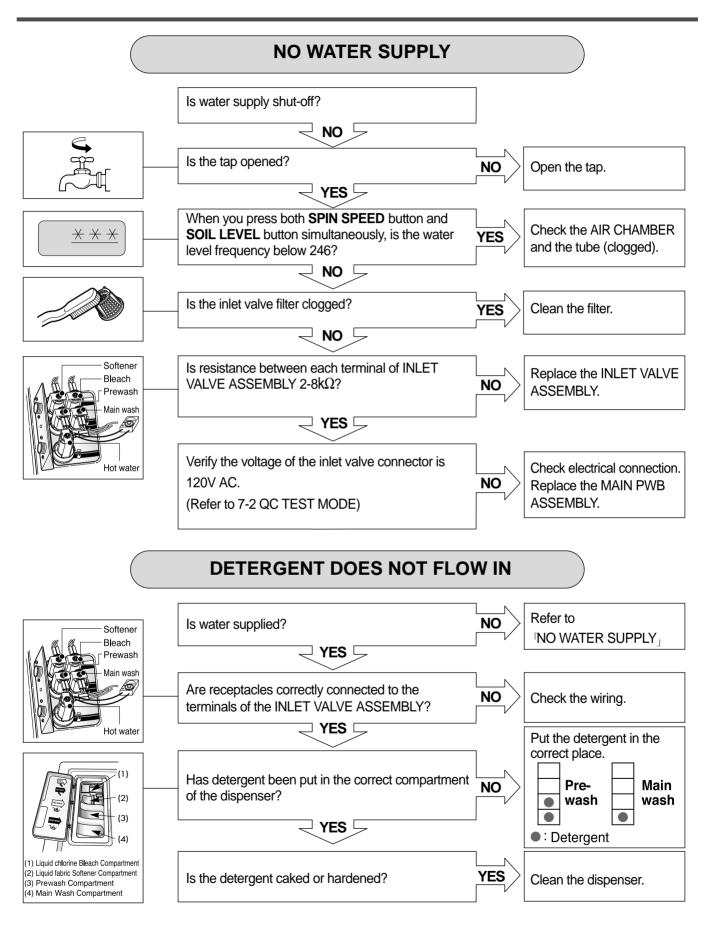
SYMPTOM	GUIDE FOR SERVICE CALL
Suds overflow from the appliance. (In this condition, wash and spin do not operate normally)	Is a low-sudsing detergent used? YES Is the proper amount of detergent used as recommended? YES Recommend to reduce the amount of detergent. * This appliance has an automatic suds sensing function which prevents overflow. * When excessive suds are sensed, the suds removing implementations such as drain, water input, pause will operate, without rotating the drum.
No softening effect	Is softener put in the correct compartment of the dispenser? Compartment for softener YES Is the softener cap clogged? Explain proper use of softener. Clean the softener compartment
FE FE EE LE	Visit to service.

8-2. FAULT DIAGNOSIS AND TROUBLESHOOTING

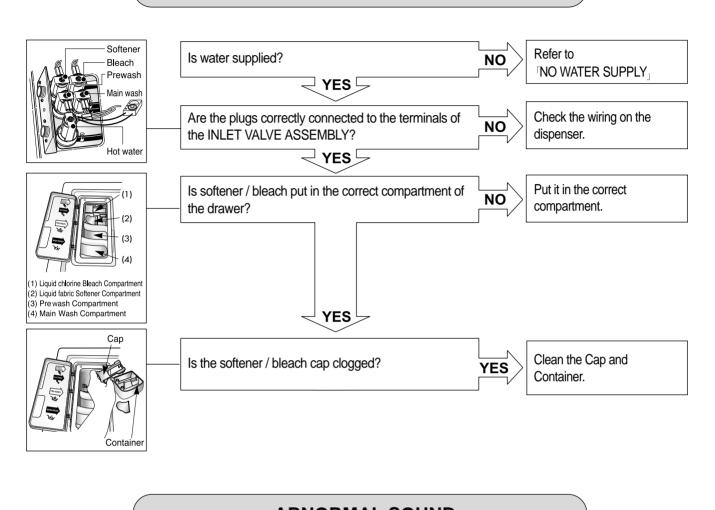
CAUTION

- 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.

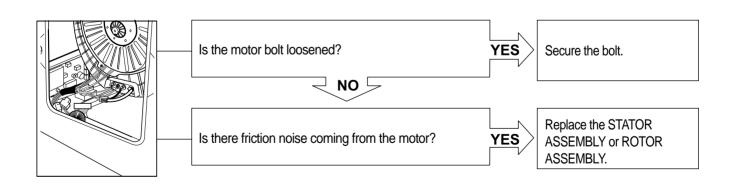




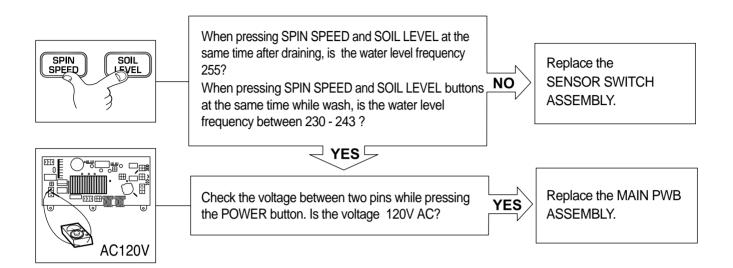
SOFTENER / BLEACH DOES NOT FLOW IN



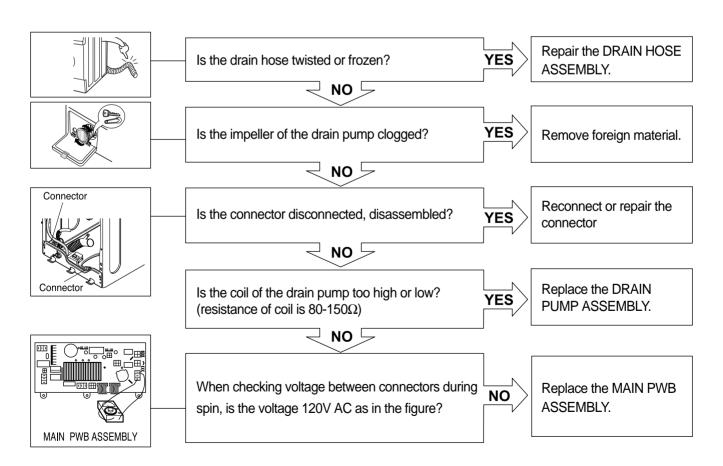
ABNORMAL SOUND



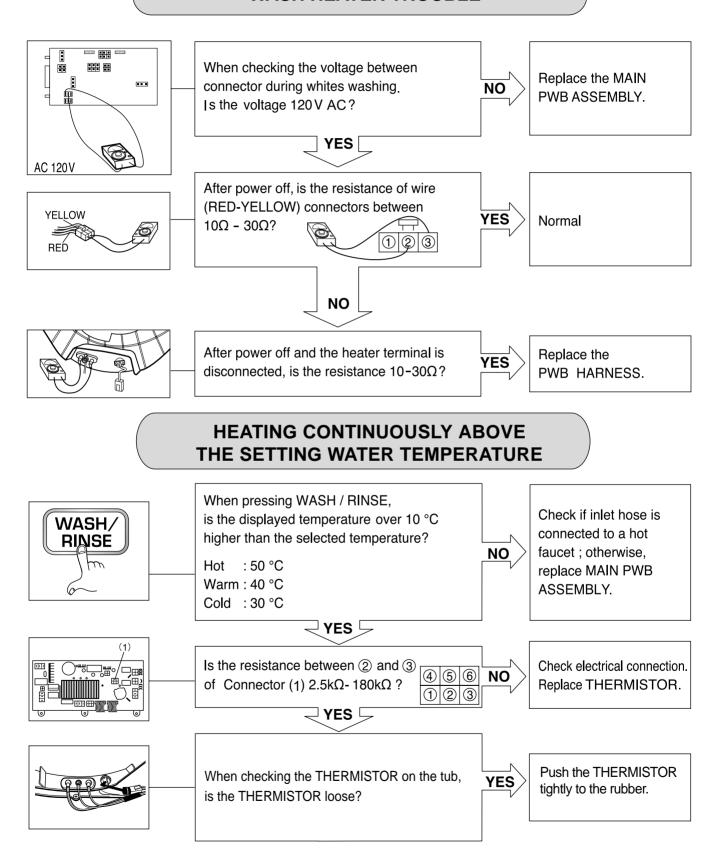
HEATING WITHOUT WATER



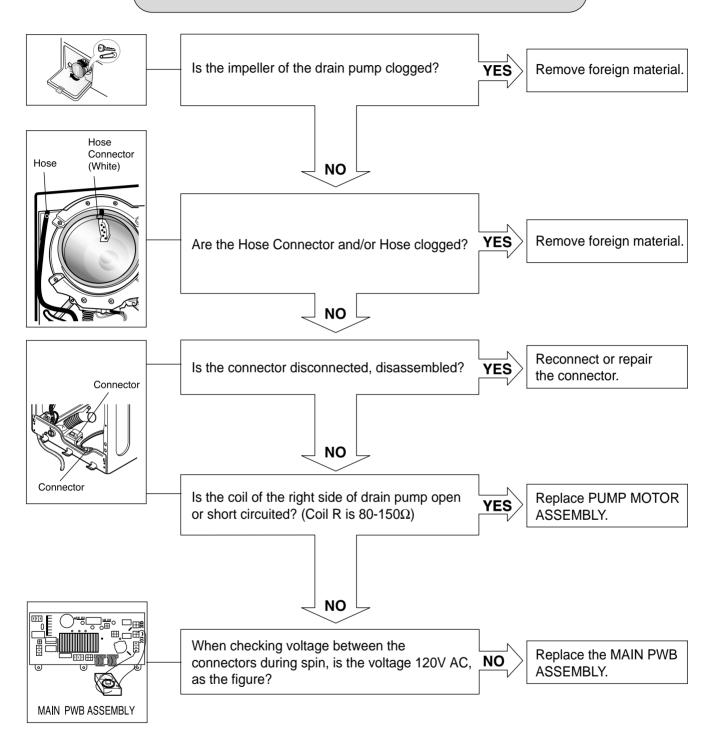
DRAIN MALFUNCTIONING

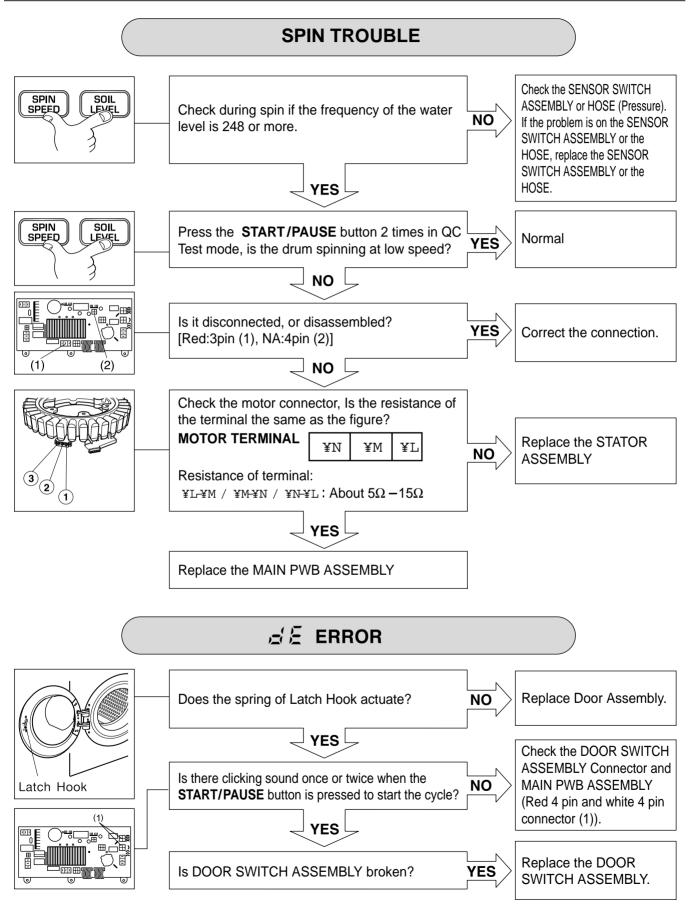


WASH HEATER TROUBLE



WILL NOT CIRCULATE WATER

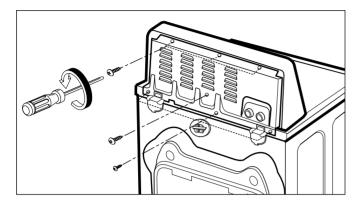




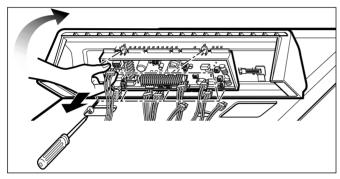
9. DISASSEMBLY INSTRUCTIONS

fR Disassemble and repair the unit only after pulling out power plug from the outlet.

CONTROL PANEL ASSEMBLY

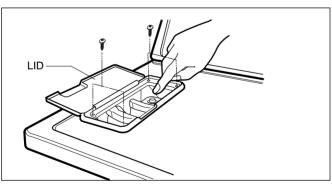


- 1. Unscrew 7 screws on the Rear Frame.
- 2. Disassemble the Rear Frame.

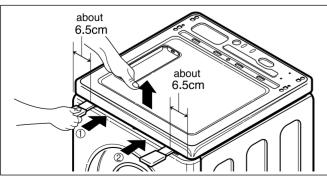


- 3. Pull the Control panel forward.
- 4. Disconnect connectors.
- 5. Unscrew 5 screws.
- 6. Disassemble the controller assembly.

TOP PLATE



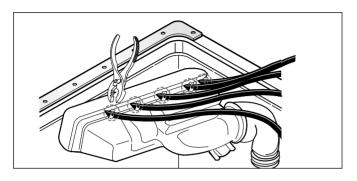
- 1. Open the Lid.
- 2. Unscrew 4 screws.
- 3. Disassemble the Lid Assembly.
- 4. Pull down the Dispenser by pushing hooks.



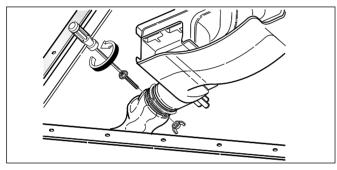
- **5.** Put a hand into the dispenser hole and hold the top plate.
- **6.** Push backward using an opener and lift the top plate.

; Do first left side (¥1).

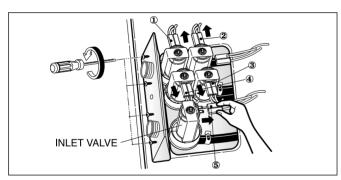
DISPENSER ASSEMBLY



- 1. Disassemble the 5 hose clamps.
- 2. Release the 5 hoses.



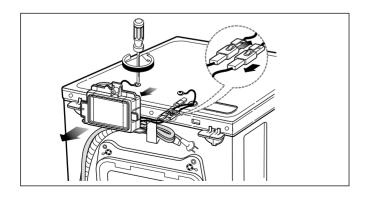
3. Unscrew the nut at the lower part of the dispenser.



- 4. Unscrew the 4 screws on the holder.
- **5.** Disassemble the 5 connectors from the valves.

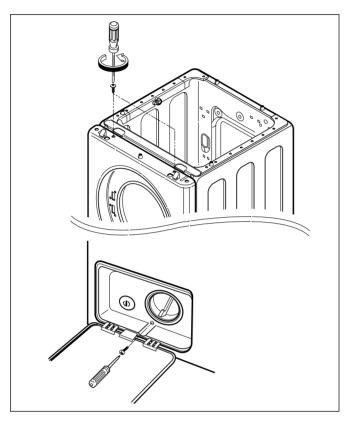
; Wire color : ¥L WH-BK ¥M OR-BK ¥N WH-BK ¥O GY-BK ¥P BL-BK

NOISE FILTER

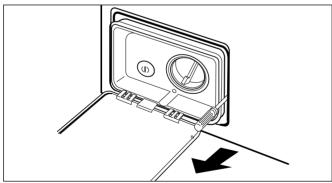


- 1. Unscrew the screw from the top plate.
- 2. Unplug the 2 connectors.

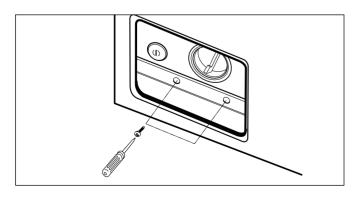
CABINET COVER



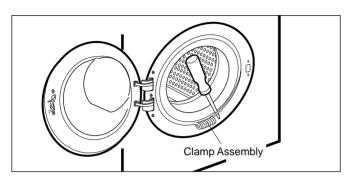
- 1. Unscrew the 2 screws from upper side of the cabinet cover.
- 2. Unscrew the screw from filter cover.



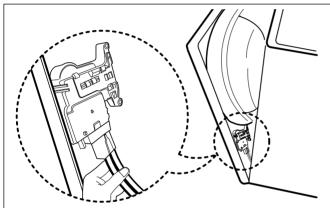
3. Put a flat (–) screwdriver into the both sides of the filter cover, and pull it out.



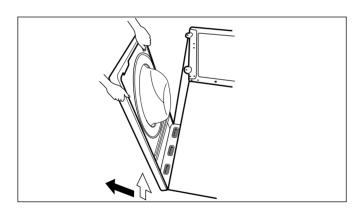
4. Unscrew the 2 screws from the lower side of the cabinet cover.



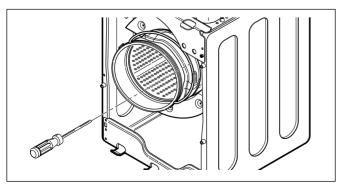
- 5. Open the door.
- **6.** Disassemble the clamp assembly using a flat (–) screwdriver.
- 7. Separate the clamp assembly from cabinet cover.



- 8. Tilt the cabinet cover.
- 9. Disconnect the door switch connector.

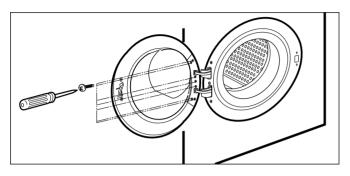


10. Lift and separate the cabinet cover.

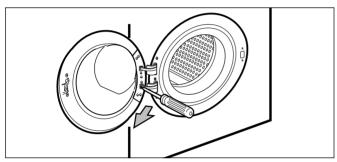


- **11.** Disassemble the clamp assembly using a flat (–) screwdriver.
- 12. Disasemble the Gasket.

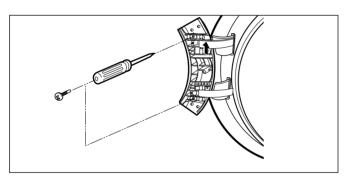
DOOR



- 1. Open the door.
- 2. Unscrew the 7 screws from the hinge cover.



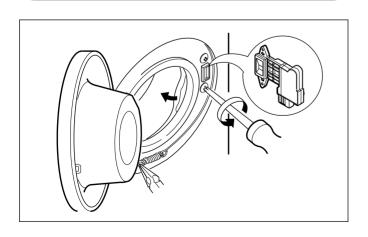
3. Put a flat (–) screwdriver into the opening of the hinge, and pull out the hinge cover.



- 4. Unscrew the screws from the door.
- 5. Disassemble the door upward / downward.

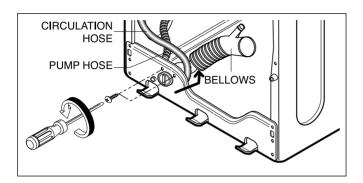
; Be careful! The door is heavy.

DOOR SWITCH ASSEMBLY



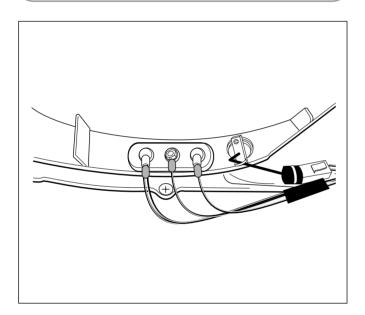
- 1. Open the door.
- 2. Disassemble the clamp assembly.
- **3.** Unscrew the 2 screws from cabinet cover.

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

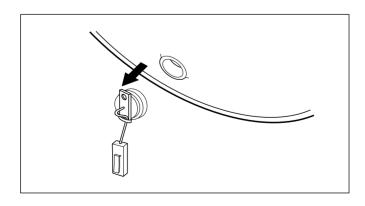


- 1. Disassemble the cabinet cover.
- 2. Separate 2 connectors from the heater.
- 3. Loose the nut and pull out the heater.

i CAUTION

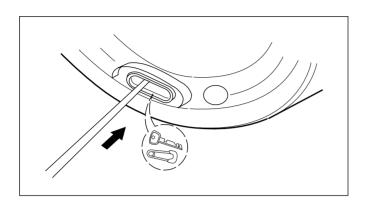
- When assembling the heater, insert the heater into heater clip on the bottom of the tub.
- Tighten the fastening nut so the heater is secure.

THERMISTOR



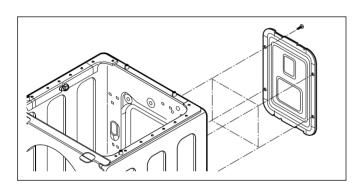
- 1. Disassemble the cabinet cover.
- 2. Unplug the white connector from the thermistor.
- **3.** Pull it out by holding the bracket of thermistor.

WHEN FOREIGN OBJECT IS STUCK BETWEEN DRUM AND TUB

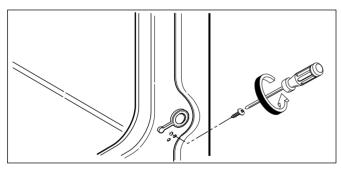


- 1. Disassemble the cabinet cover.
- 2. Separate the heater from the tub.
- **3.** Remove any foreign objects (wire, coin, etc.) by inserting a long bar in the opening.

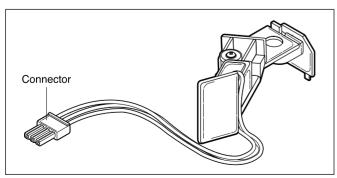
SENSOR ASSEMBLY(BALL SENSOR)



1. Unscrew the 4 screws from the back cover.

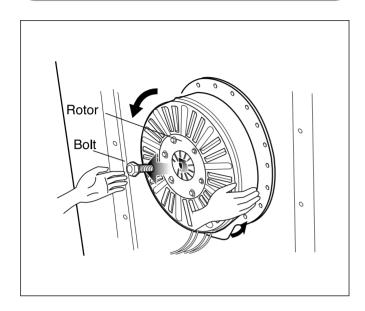


2. Unscrew the single screw from the lower-right side of the cabinet.

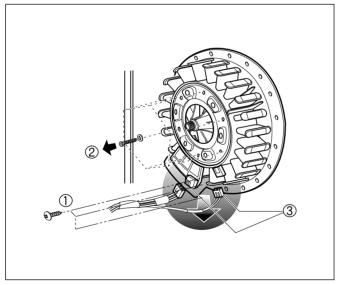


3. Disconnect the connector from PWB Harness.

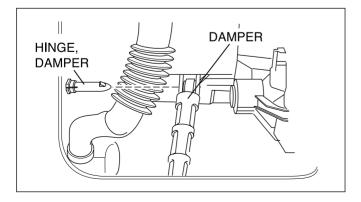
MOTOR / DAMPER



- 1. Disassemble the back cover.
- 2. Loosen the bolt.
- 3. Pull out the Rotor.



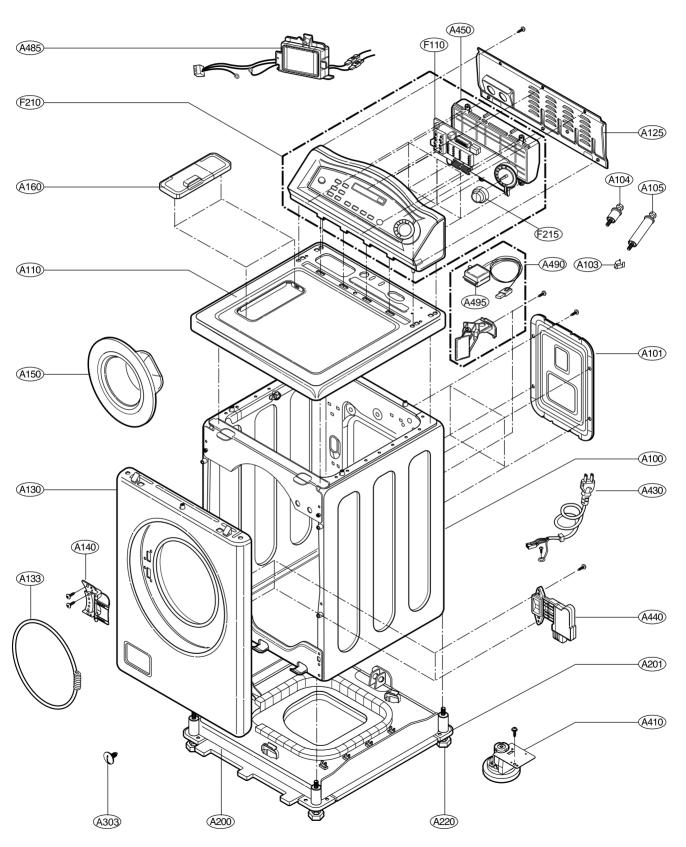
- 4. Unscrew the 2 screws from the tub bracket.
- **5.** Loosen the 6 bolts on the stator.
- **6.** Unplug the 2 connectors from the stator.



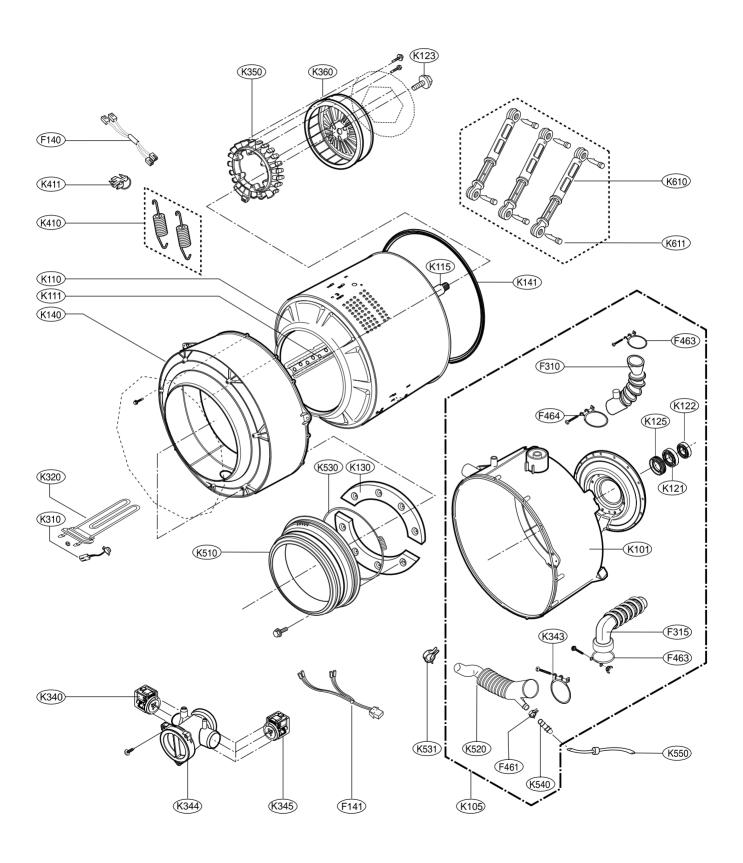
- 1. Disassemble the damper hinges from the tub and base.
- 2. Separate the dampers.

10. EXPLODED VIEW

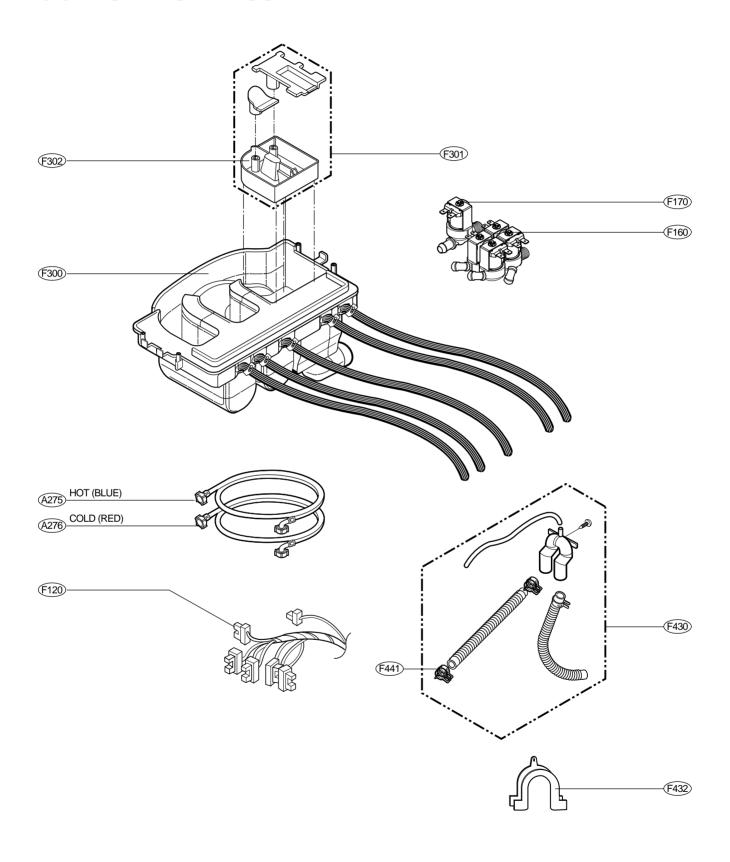
10-1. CABINET & CONTROL PANEL ASSEMBLY



10-2. DRUM & TUB ASSEMBLY



10-3. DISPENSER ASSEMBLY



REPLACEMENT PARTS LIST (WM2432HW)

CAUTION: Before replacing any part of these components

Read carefully the safety precautions in this manual

	LG MODEL: WD-12210BD ABWEEUS YOUR MODEL: WM2432HW			SPECIFICATION: 120\	PECIFICATION: 120V 60Hz		
S		LOC	DESCRIPTION	PARTS No.	Q'TY	REMARKS	
			MANUAL ASSEMBLY,OWNERS	3829ER3014C	1	1121111111111	
1			BOX,CARTON	3890EZ3355A	1		
-			SPANNER	3W20018B	1		
			MANUAL,SERVICE	3828ER3013T	0		
			CABINET ASSEMBLY	3091ER0001C	1		
			COVER,BACK	3808FR1202A	1		
			HOLDER	4930FR3151A	1		
			BOLT ASSEMBLY	4011FR3159E	2		
			BOLT ASSEMBLY	4011FR3159D	2		
			TOP PLATE ASSEMBLY	3457ER1002A	1		
			FRAME,REAR	3210ER1306A	1		
			COVER,CABINET	3550ER0005A	1		
\dashv	\dashv		CLAMP ASSEMBLY	2W20017E	1		
-+	-		HINGE ASSEMBLY	4775ER2001A	1		
\dashv	\dashv		DOOR ASSEMBLY	3581ER0001G	1		
			LID ASSEMBLY	3523ER1001C	1		
\vdash	\dashv		BASE ASSEMBLY, CABINET	3041ER0001A	1		
-	-		BRACKET,BASE	4810ER3006A	4		
-	-		LEG ASSEMBLY	5413FR4154D	4		
-	-		HOSE,INLET	5215FD3715E	1		
			HOSE,INLET		-		
			CAP,COVER	5215FD3715F	1		
•			SWITCH ASSEMBLY,SENSOR SWITCH	5006FR3146A			
À			POWER CORD ASSEMBLY	6600FA1704X 6411ER1004S	1		
A							
A			SWITCH ASSEMBLY,DOOR	6601ER1004B	1		
-			PWB(PCB) ASSEMBLY,MAIN	6871EC1081A	1		
-			FILTER ASSEMBLY(CIRC)	6201EC1004L	1		
			BRACKET ASSEMBLY	4811ER3001A	1		
			SENSOR ASSEMBLY	6501FA2462C	1		
			PWB(PCB) ASSEMBLY,DISPLAY	6871EC1072C	1		
A			HARNESS,PWB	6877ER1015B	1		
A			HARNESS,MOTOR	6877ER1016B	1		
A			HARNESS,MOTOR	6877ER3003B	1		
A			VALVE ASSEMBLY,INLET	5220FR2008C	1		
A	_		VALVE ASSEMBLY, INLET	5220FR1280F	1		
	_		PANEL ASSEMBLY, CONTROL	3721ER1054B	1		
	_		KNOB,ROTARY	4940ER3014A	1		
	_		DISPENSER	4924ER1006B	1		
			BOX ASSEMBLY,DETERGENT	3891ER2002A	1		
			BOX,DETERGENT	3890ER2002A	1		
			BELLOWS	4738ER2001A	1		
			BELLOWS	4738ER2002A	1		
		F430	HOSE ASSEMBLY, DRAIN	5215ER2002F	1		
		F432	HANGER ASSEMBLY,PIVOT	3W50712A	1		
		F441	CLAMP	4861FR3068C	3		
		F461	CLAMP	4861FR3068E	1		

			VD-12210BD ABWEEUS L: WM2432HW	SPECIFICATION: 120\	/ 60Hz	Run_Date : 02-12-28
S	AL	LOC	DESCRIPTION	PARTS No.	Q'TY	REMARKS
		F463	CLAMP	4860FR3092D	2	
		F464	CLAMP	4860FR3092C	1	
		K101	TUB,OUTER	3044ER0003A	1	
		K105	TUB ASSEMBLY,OUTER[SUB4]	3045ER0008A	1	
		K110	TUB ASSEMBLY,INNER[DRUM]	3045ER1006A	1	
		K111	LIFTER ASSEMBLY	4433ER1001A	3	
		K115	SPIDER	4434ER0001A	1	
		K121	BEARING,BALL	4280FR4048D	1	
		K122	BEARING,BALL	4280FR4048E	1	
		K123	BOLT ASSY	4040FR4051B	1	
		K125	SEAL	4036ER3002A	1	
		K130	BALANCE WEIGHT	4866ER0004A	2	
		K140	COVER ASSEMBLY,TUB	3551ER0003A	1	
		K141	SEAL	4036ER4001B	1	
lack		K310	THERMISTOR ASSEMBLY	6322FR2046C	1	
lack		K320	HEATER ASSEMBLY	5301FR1158J	1	
lack		K340	MOTOR ASSEMBLY,PUMP	4681EA2001D	1	
		K343	CLAMP	4860FR3092C	1	
		K344	CASING,PUMP	3108ER1001A	1	
A		K345	MOTOR ASSEMBLY,PUMP	4681EA2001C	1	
lack		K350	STATOR ASSEMBLY	4417FA1994G	1	
		K360	ROTOR ASSEMBLY	4413EA1002B	1	
		K410	SPRING,HINGE	4970FR2084D	2	
		K411	HOLDER	4930FR3040A	2	
		K510	GASKET	4986ER0001A	1	
		K520	BELLOWS	4738ER1002A	1	
		K530	CLAMP ASSEMBLY	4861ER2001D	1	
		K531	CLAMP	4861FR3068E	2	
		K540	CHAMBER,AIR	3504ER3002A	1	
		K550	HOSE,INLET	5214FR4125N	1	
		K610	DAMPER ASSEMBLY,FRICTION	4901ER2002B	3	
		K611	HINGE	4774FR3118B	6	

REPLACEMENT PARTS LIST (WM2032HS)

CAUTION: Before replacing any part of these components

Read carefully the safety precautions in this manual

		VD-10215BD ATTEEUS _: WM2032HS S	PECIFICATION: 120\	/ 60Hz	Run_Date : 02-12-2
S AL	LOC	DESCRIPTION	PARTS No.	Q'TY	REMARKS
	*001	MANUAL ASSEMBLY,OWNERS	3829ER3014D	1	
		BOX,CARTON	3890EZ3355A	1	
		SPANNER	3W20018B	1	
	*004	MANUAL,SERVICE	3828ER3013T	0	
		CABINET ASSEMBLY	3091ER0001D	1	
	A101	COVER,BACK	3808FR1202A	1	
	A103	HOLDER	4930FR3151A	1	
	A104	BOLT ASSEMBLY	4011FR3159E	2	
		BOLT ASSEMBLY	4011FR3159D	2	
	-	TOP PLATE ASSEMBLY	3457ER1002D	1	
	_	FRAME,REAR	3210ER1306A	1	
	A130	COVER,CABINET	3550ER0005B	1	
1	A133	CLAMP ASSEMBLY	2W20017E	1	
1	A140	HINGE ASSEMBLY	4775ER2001A	1	
	A150	DOOR ASSEMBLY	3581ER0001J	1	
		LID ASSEMBLY	3523ER1001D	1	
		BASE ASSEMBLY, CABINET	3041ER0001A	1	
1		BRACKET,BASE	4810ER3006A	4	
		LEG ASSEMBLY	5413FR4154D	4	
		HOSE,INLET	5215FD3715E	1	
		HOSE,INLET	5215FD3715F	1	
1	_	CAP,COVER	5006FR3146A	1	
		SWITCH ASSEMBLY, SENSOR SWITCH	6600FA1704X	1	
	A430	POWER CORD ASSEMBLY	6411ER1004S	1	
	_	SWITCH ASSEMBLY,DOOR	6601ER1004B	1	
_	A450	PWB(PCB) ASSEMBLY,MAIN	6871EC1081B	1	
	A485	FILTER ASSEMBLY(CIRC)	6201EC1004L	1	
1	A490	BRACKET ASSEMBLY	4811ER3001A	1	
1	_	SENSOR ASSEMBLY	6501FA2462C	1	
1	F110	PWB(PCB) ASSEMBLY,DISPLAY	6871EC1072D	1	
	F120	HARNESS,PWB	6877ER1015B	1	
		HARNESS,MOTOR	6877ER1016B	1	
		HARNESS,MOTOR	6877ER3003B	1	
	_	VALVE ASSEMBLY,INLET	5220FR2008C	1	
		VALVE ASSEMBLY,INLET	5220FR1280F	1	
1		PANEL ASSEMBLY,CONTROL	3721ER1054K	1	
	_	KNOB,ROTARY	4940ER3014A	1	
+		DISPENSER	4924ER1006B	1	
\top		BOX ASSEMBLY, DETERGENT	3891ER2002A	1	
	-	BOX,DETERGENT	3890ER2002A	1	
\dagger		BELLOWS	4738ER2001A	1	
+	_	BELLOWS	4738ER2002A	1	
+		HOSE ASSEMBLY, DRAIN	5215ER2002F	1	
\dagger	F432	HANGER ASSEMBLY, PIVOT	3W50712A	1	
+	F441	CLAMP	4861FR3068C	3	
+	F461	CLAMP	4861FR3068E	1	

			/D-10215BD ATTEEUS .: WM2032HS	SPECIFICATION: 120\	SPECIFICATION: 120V 60Hz		
S	AL	LOC	DESCRIPTION	PARTS No.	Q'TY	REMARKS	
		F463	CLAMP	4860FR3092D	2		
		F464	CLAMP	4860FR3092C	1		
		K101	TUB,OUTER	3044ER0003A	1		
		K105	TUB ASSEMBLY,OUTER[SUB4]	3045ER0008A	1		
		K110	TUB ASSEMBLY,INNER[DRUM]	3045ER1006A	1		
		K111	LIFTER ASSEMBLY	4433ER1001A	3		
		K115	SPIDER	4434ER0001A	1		
		K121	BEARING,BALL	4280FR4048D	1		
		K122	BEARING,BALL	4280FR4048E	1		
		K123	BOLT ASSY	4040FR4051B	1		
		K125	SEAL	4036ER3002A	1		
		K130	BALANCE WEIGHT	4866ER0004A	2		
		K140	COVER ASSEMBLY,TUB	3551ER0003A	1		
		K141	SEAL	4036ER4001B	1		
A		K310	THERMISTOR ASSEMBLY	6322FR2046C	1		
A		K320	HEATER ASSEMBLY	5301FR1158J	1		
A		K340	MOTOR ASSEMBLY,PUMP	4681EA2001D	1		
		K343	CLAMP	4860FR3092C	1		
		K344	CASING,PUMP	3108ER1001A	1		
A		K345	MOTOR ASSEMBLY,PUMP	4681EA2001C	1		
A		K350	STATOR ASSEMBLY	4417FA1994G	1		
		K360	ROTOR ASSEMBLY	4413EA1002B	1		
		K410	SPRING,HINGE	4970FR2084D	2		
		K411	HOLDER	4930FR3040A	2		
		K510	GASKET	4986ER0001A	1		
		K520	BELLOWS	4738ER1002A	1		
		K530	CLAMP ASSEMBLY	4861ER2001D	1		
		K531	CLAMP	4861FR3068E	2		
		K540	CHAMBER,AIR	3504ER3002A	1		
		K550	HOSE,INLET	5214FR4125N	1		
		K610	DAMPER ASSEMBLY,FRICTION	4901ER2002B	3		
		K611	HINGE	4774FR3118B	6		

REPLACEMENT PARTS LIST (WM2032HW)

CAUTION: Before replacing any part of these components

Read carefully the safety precautions in this manual

		0-10210BD ABWEEUS WM2032HW S	Run_Date : 02-12-28 SPECIFICATION: 120V 60Hz			
S Al		DESCRIPTION	PARTS No.	Q'TY	REMARKS	
1		MANUAL ASSEMBLY,OWNERS	3829ER3014D	1		
		BOX,CARTON	3890EZ3355A	1		
		SPANNER	3W20018B	1		
		MANUAL,SERVICE	3828ER3013T	0		
		CABINET ASSEMBLY	3091ER0001C	1		
		COVER,BACK	3808FR1202A	1		
		HOLDER	4930FR3151A	1		
		BOLT ASSEMBLY	4011FR3159E	2		
		BOLT ASSEMBLY	4011FR3159D	2		
	A110	TOP PLATE ASSEMBLY	3457ER1002A	1		
		FRAME,REAR	3210ER1306A	1		
		COVER,CABINET	3550ER0005A	1		
		CLAMP ASSEMBLY	2W20017E	1		
		HINGE ASSEMBLY	4775ER2001A	1		
	A150	DOOR ASSEMBLY	3581ER0001G	1		
	A160	LID ASSEMBLY	3523ER1001C	1		
		BASE ASSEMBLY, CABINET	3041ER0001A	1		
	A201	BRACKET,BASE	4810ER3006A	4		
		LEG ASSEMBLY	5413FR4154D	4		
	A275	HOSE,INLET	5215FD3715E	1		
		HOSE,INLET	5215FD3715F	1		
		CAP,COVER	5006FR3146A	1		
<u> </u>		SWITCH ASSEMBLY, SENSOR SWITCH	6600FA1704X	1		
<u> </u>		POWER CORD ASSEMBLY	6411ER1004S	1		
<u>A</u>		SWITCH ASSEMBLY,DOOR	6601ER1004B	1		
		PWB(PCB) ASSEMBLY,MAIN	6871EC1081B	1		
		FILTER ASSEMBLY(CIRC)	6201EC1004L	1		
		BRACKET ASSEMBLY	4811ER3001A	1		
		SENSOR ASSEMBLY	6501FA2462C	1		
		PWB(PCB) ASSEMBLY, DISPLAY	6871EC1072D	1		
<u> </u>		HARNESS,PWB	6877ER1015B	1		
Ā		HARNESS,MOTOR	6877ER1016B	1		
<u> </u>	F141	HARNESS,MOTOR	6877ER3003B	1		
<u> </u>		VALVE ASSEMBLY,INLET	5220FR2008C	1		
<u> </u>		VALVE ASSEMBLY, INLET	5220FR1280F	1		
		PANEL ASSEMBLY,CONTROL	3721ER1054C	1		
		KNOB,ROTARY	4940ER3014A	1		
	_	DISPENSER	4924ER1006B	1		
		BOX ASSEMBLY, DETERGENT	3891ER2002A	1		
	_	BOX,DETERGENT	3890ER2002A	1		
		BELLOWS	4738ER2001A	1		
1		BELLOWS	4738ER2002A	1		
\top		HOSE ASSEMBLY, DRAIN	5215ER2002F	1		
\top		HANGER ASSEMBLY, PIVOT	3W50712A	1		
1	_	CLAMP	4861FR3068C	3		
+	-	CLAMP	4861FR3068E	1		

			ND-10210BD ABWEEUS L: WM2032HW	SPECIFICATION: 120V	/ 60Hz	Run_Date : 02-12-28	
S	AL	LOC	DESCRIPTION	PARTS No.	Q'TY	REMARKS	
		F463	CLAMP	4860FR3092D	2		
		F464	CLAMP	4860FR3092C	1		
		K101	TUB,OUTER	3044ER0003A	1		
		K105	TUB ASSEMBLY,OUTER[SUB4]	3045ER0008A	1		
		K110	TUB ASSEMBLY,INNER[DRUM]	3045ER1006A	1		
		K111	LIFTER ASSEMBLY	4433ER1001A	3		
		K115	SPIDER	4434ER0001A	1		
		K121	BEARING,BALL	4280FR4048D	1		
		K122	BEARING,BALL	4280FR4048E	1		
		K123	BOLT ASSY	4040FR4051B	1		
		K125	SEAL	4036ER3002A	1		
		K130	BALANCE WEIGHT	4866ER0004A	2		
		K140	COVER ASSEMBLY,TUB	3551ER0003A	1		
		K141	SEAL	4036ER4001B	1		
A		K310	THERMISTOR ASSEMBLY	6322FR2046C	1		
$\overline{\mathbf{A}}$		K320	HEATER ASSEMBLY	5301FR1158J	1		
$\overline{\mathbf{A}}$		K340	MOTOR ASSEMBLY,PUMP	4681EA2001D	1		
		K343	CLAMP	4860FR3092C	1		
		K344	CASING,PUMP	3108ER1001A	1		
A		K345	MOTOR ASSEMBLY, PUMP	4681EA2001C	1		
A		K350	STATOR ASSEMBLY	4417FA1994G	1		
		K360	ROTOR ASSEMBLY	4413EA1002B	1		
		K410	SPRING,HINGE	4970FR2084D	2		
			HOLDER	4930FR3040A	2		
		K510	GASKET	4986ER0001A	1		
		K520	BELLOWS	4738ER1002A	1		
		K530	CLAMP ASSEMBLY	4861ER2001D	1		
			CLAMP	4861FR3068E	2		
			CHAMBER,AIR	3504ER3002A	1		
			HOSE,INLET	5214FR4125N	1		
			DAMPER ASSEMBLY, FRICTION	4901ER2002B	3		
			HINGE	4774FR3118B	6		

REPLACEMENT PARTS LIST (WM1832CW)

CAUTION: Before replacing any part of these components

Read carefully the safety precautions in this manual

			D-90210BD ABWEEUS : WM1832CW	SPECIFICATION: 120\	/ 60Hz	Run_Date : 02-12-28
S	AL	LOC	DESCRIPTION	PARTS No.	Q'TY	REMARKS
		*001	MANUAL ASSEMBLY,OWNERS	3829ER3014E	1	
			BOX,CARTON	3890EZ3355A	1	
		*003	SPANNER	3W20018B	1	
		*004	MANUAL,SERVICE	3828ER3013T	0	
		A100	CABINET ASSEMBLY	3091ER0001C	1	
		A101	COVER,BACK	3808FR1202A	1	
		A103	HOLDER	4930FR3151A	1	
		A104	BOLT ASSEMBLY	4011FR3159E	2	
		A105	BOLT ASSEMBLY	4011FR3159D	2	
		A110	TOP PLATE ASSEMBLY	3457ER1002C	1	
		A125	FRAME,REAR	3210ER1306A	1	
			COVER, CABINET	3550ER0005A	1	
			CLAMP ASSEMBLY	2W20017E	1	
			HINGE ASSEMBLY	4775ER2001A	1	
			DOOR ASSEMBLY	3581ER0001F	1	
			LID ASSEMBLY	3523ER1001C	1	
			BASE ASSEMBLY, CABINET	3041ER0001B	1	
			BRACKET,BASE	4810ER3006A	4	
			LEG ASSEMBLY	5413FR4154D	4	
			HOSE,INLET	5215FD3715E	1	
			HOSE,INLET	5215FD3715F	1	
			CAP,COVER	5006FR3146A	1	
A			SWITCH ASSEMBLY, SENSOR SWITCH	6600FA1704X	1	
Ā			POWER CORD ASSEMBLY	6411ER1004S	1	
Â			SWITCH ASSEMBLY, DOOR	6601ER1004B	1	
			PWB(PCB) ASSEMBLY,MAIN	6871EC1081C	1	
			FILTER ASSEMBLY(CIRC)	6201EC1004L	1	
			BRACKET ASSEMBLY	4811ER3001A	1	
			SENSOR ASSEMBLY	6501FA2462C	1	
			PWB(PCB) ASSEMBLY,DISPLAY	6871EC1072E	1	
A			HARNESS,PWB	6877ER1015C	1	
<u> </u>			HARNESS,MOTOR	6877ER1016B	1	
A			HARNESS,MOTOR	6877ER3003C	1	
A			VALVE ASSEMBLY,INLET	5220FR2008C	1	
A	\vdash		VALVE ASSEMBLY, INLET	5220FR2008C 5220FR1280F	1	
4	\vdash		PANEL ASSEMBLY, INLET	3721ER1054D	1	
			KNOB,ROTARY		1	
			·	4940ER3014A		
			DISPENSER	4924ER1006B	1	
	\vdash		BOX ASSEMBLY, DETERGENT	3891ER2002A	1	
	\vdash		BOX,DETERGENT	3890ER2002A	1	
			BELLOWS	4738ER2001A	1	
	-		BELLOWS	4738ER2002A	1	
	igwdapprox		HOSE ASSEMBLY, DRAIN	5215ER2002F	1	
			HANGER ASSEMBLY,PIVOT	3W50712A	1	
			CLAMP	4861FR3068C	3	
		F461	CLAMP	4861FR3068E	1	

			D-90210BD ABWEEUS			Run_Date : 02-12-28	
			: WM1832CW	SPECIFICATION: 120\	SPECIFICATION: 120V 60Hz		
ഗ	AL	LOC	DESCRIPTION	PARTS No.	Q'TY	REMARKS	
		F463	CLAMP	4860FR3092D	2		
		F464	CLAMP	4860FR3092C	1		
		K101	TUB,OUTER	3044ER0003A	1		
		K105	TUB ASSEMBLY,OUTER[SUB4]	3045ER0008C	1		
		K110	TUB ASSEMBLY,INNER[DRUM]	3045ER1006B	1		
		K111	LIFTER ASSEMBLY	4433ER1001B	1		
		K115	SPIDER	4434ER0001A	1		
		K121	BEARING,BALL	4280FR4048D	1		
		K122	BEARING,BALL	4280FR4048E	1		
		K123	BOLT ASSY	4040FR4051B	1		
		K125	SEAL	4036ER3002A	1		
		K130	BALANCE WEIGHT	4866ER0004A	2		
		K140	COVER ASSEMBLY,TUB	3551ER0003C	1		
		K141	SEAL	4036ER4001B	1		
A		K310	THERMISTOR ASSEMBLY	6322FR2046C	1		
A		K340	MOTOR ASSEMBLY,PUMP	4681EA2001D	1		
		K343	CLAMP	4860FR3092C	1		
		K344	CASING,PUMP	3108ER1001B	1		
A		K350	STATOR ASSEMBLY	4417FA1994G	1		
		K360	ROTOR ASSEMBLY	4413EA1002B	1		
		K410	SPRING,HINGE	4970FR2084D	2		
		K411	HOLDER	4930FR3040A	2		
		K510	GASKET	4986ER0001B	1		
		K520	BELLOWS	4738ER1002A	1		
		K530	CLAMP ASSEMBLY	4861ER2001D	1		
		K531	CLAMP	4861FR3068E	2		
		K540	CHAMBER,AIR	3504ER3002A	1		
		K550	HOSE,INLET	5214FR4125N	1		
		K610	DAMPER ASSEMBLY,FRICTION	4901ER2002B	3		
		K611	HINGE	4774FR3118B	6		