

DAEWOO

Service Manual

Auto Washer

Model : DWF-6010



DAEWOO ELECTRONICS CO., LTD.
OVERSEAS SERVICE DEPT.

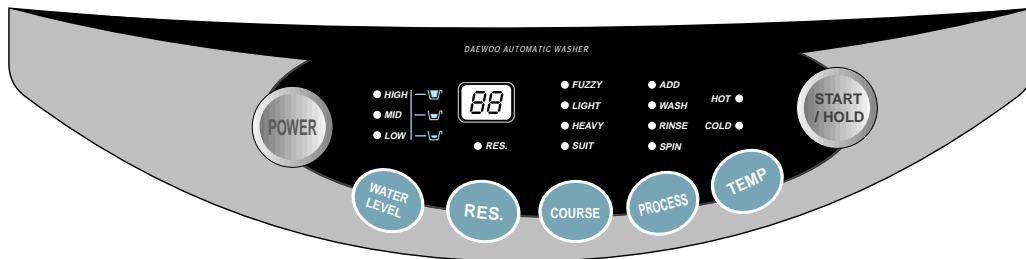
1. SPECIFICATIONS






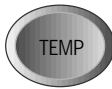

NO.	ITEM		DWF-6010						
1	POWER SOURCE		AVAILABLE IN ALL LOCAL AC VOLTAGE						
2	POWER	50Hz	250W						
	CONSUMPTION	60Hz	270W						
3	MACHINE	NET	32,5						
	WEIGHT	GROSS	36						
4	DIMENSION (WXHXD)		532X855X542						
5	MATERIAL OF INTERNAL TUB		STAINLESS STEEL						
6	WASHING COURSE		FULL AUTOMATIC 4 COURSE (FUZZY, LIGHT, HEAVY, WOOL/SUIT)						
7	WATER LEVEL SELECTOR		HIGH(55ℓ), MID(45ℓ), LOW(31ℓ)						
8	OPERATING WATER PRESSURE		0.3kgf/cm ² ~8kgf/cm ² (2.94 N/cm ² ~78.4N/cm ²)						
9	MAXIMUM MASS OF TEXTILE		6.0Kg						
10	REVOLUTION PER MINUTE	WASH	125~145(50Hz), 130~150(60Hz)						
		SPIN	710~725(50Hz), 760~785(60Hz)						
		SUIT	50(50Hz), 60(60Hz)						
11	DIRECTION INLET VALVE		BACKWARD		UPWARD				
12	WATER CONSUMPTION		APPROX. 130ℓ/CYCLE						
13	PULSATOR		PROVIDED WITH 6 SPOUTING HOLES FOR POWERFUL UPWARD WATER STREAM						
14	WATER LEVEL CONTROL		ELECTRONICAL SENSOR						
15	ANTI NOISE PLATE		OPTION						
16	GEAR MECHANISM ASS'Y		SPUR GEAR						
17	LINT FILTER		O						
18	SOFTENER INLET		O						
19	ALARM SIGNAL		O						
20	AUTO. WATER SUPPLY		O						
21	FUNCTION FOR BUBBLE		OPTION						
22	AUTO RE-FEED WATER		O						
23	AUTO POWER OFF		O						

3. FUNCTIONS OF THE CONTROL PANEL



Control panel has micom sensor.

As the buttons are pressed, the lamps indicating the selection of your desired washing program will light up.



	<p>Power Switch</p> <ul style="list-style-type: none"> • Press this button to turn the power ON or OFF.
	<p>Water Level Selector</p> <ul style="list-style-type: none"> • This button is used to select the water level you want.
	<p>Reservation Button</p> <ul style="list-style-type: none"> • If you want to reserve the finishing time of washing, use this button. As this button is pressed, digit in display increases by 1 hour at one press. • If current time is 8:00 am and you expect washing will be completed around 5:00 pm, press this nine times in order to display '9'.
	<p>Course Selector</p> <ul style="list-style-type: none"> • This button is used to select the washing course according to the type of wash loads. • Either WOOL or SUIT course is adopted to your washing machine.
	<p>Program Button</p> <ul style="list-style-type: none"> • With this button, you can create new programs by combinations of process.
	<p>Temperature Selector (Optional)</p> <ul style="list-style-type: none"> • If your washer is connected to two water taps for cold water and hot water, you can select them. Without operation, cold water would be selected automatically.
	<p>Start/Hold</p> <ul style="list-style-type: none"> • With this button, you can make your washer proceed your program, or stop temporarily. And you can also release the temporary stop by pressing this.

§ Reserved Washing

<p>1 Set your program as the above procedure, remaining last step.</p> <ul style="list-style-type: none"> • Press the course selection button. • Press the procedure selection button. • But WOOL/SUIT course can not reservation. 	<p>2 Press reservation button until the digital monitor displays the finishing time you want.</p> 	<p>3 Press Start/Hold to start.</p> 
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§ Partial Selection Among Wash, Rinse or Spin

step 1. Press power switch.

step 2. Press program button until the indicating lamps make the combinations you want.





If only spin lamp is turned on, that means you will operate your washer for spin only.

If rinse and spin lamp are turned on, that means you will operate your washer for rinse and spin.

If add lamp is turned on with other process lamps, that means the time of the corresponding process will increase by 1~2 minutes, that is, if add is on with wash, rinse and spin, the time of each process will increase by 1~2 minutes. (Wash: add 2 min., Rinse: add 1 min., Spin: add 1 min.)

step 3. Press water level selector as your decision.

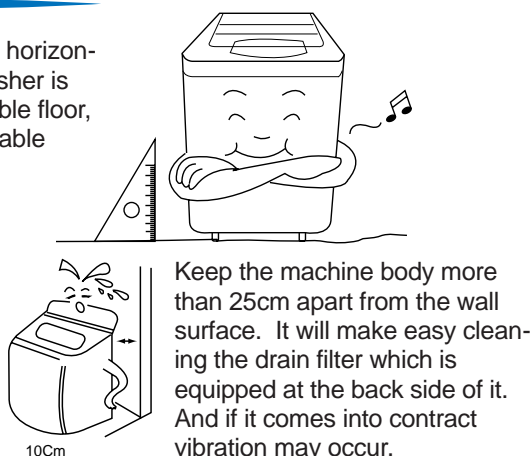
step 4. Press Start/Hold to start.

1 Processing the Power Switch	2 Selecting Water level	3 Selecting Course			4 Pressing the Start/Hold Switch	
	§ HIGH § MID § LOW 	§ ADD § WASH § RINSE § SPIN 	Wash & Rinse & Spin	§ ADD § WASH § RINSE § SPIN		End of Washing It is Informed by buzzer.
			Only Spin	§ ADD § WASH § RINSE § SPIN		
			Add & Wash	§ ADD § WASH § RINSE § SPIN		
			Add & Rinse & Spin	§ ADD § WASH § RINSE § SPIN		
			Add & Spin	§ ADD § WASH § RINSE § SPIN		
			Add & Wash & Rinse & Spin	§ ADD § WASH § RINSE § SPIN		
			Only Wash	§ ADD § WASH § RINSE § SPIN		
			Rinse & Spin	§ ADD § WASH § RINSE § SPIN		

5. DIRECTIONS FOR INSTALLATION AND USE

Installing Place

Install the washer on a horizontal solid floor. If the washer is installed on an unsuitable floor, it could make considerable noise and vibration.

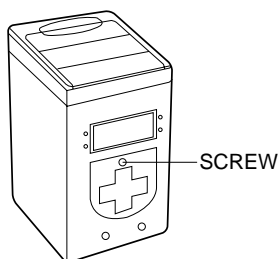


Never install in these places

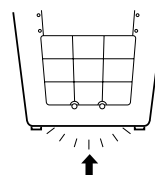
- ⌋ The place where it would be exposed to direct sunlight.
- ⌋ The place nearby a heater or heat appliance.
- ⌋ The place where it would be supposed to be frozen in winter.
- ⌋ The kitchen with coal gas and a damp place like a bathroom.

§ Installation Of The Under Base Cover [Option] -DWF-5510/5511/5010/6011

- 1 Before installing your washer, remove the pad from the bottom of the cabinet. Then, separate under cover from rear side of cabinet by unscrewing and insert it into the base.

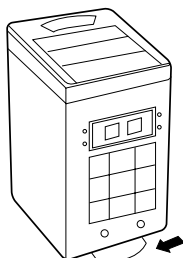


- 2 Push the under-base cover into the end, which decrease the noise made by this washer.

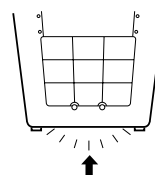


-DWF-5520/5521/6020/6021

- 1 There is under-base cover in the tub of the washer. Put out and draw it in its proper site. (See picture)



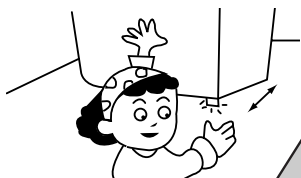
- 2 Push the under-base cover into the end, which decrease the noise made by this washer.



§ How To Install On An Inclined Place

1 Horizon Setting

After controlling the height by turning the adjustable leg, let the washer put down to the ground.



2 Check the Horizon Status

Check the position of tub above the center of the washer.



NOTES

The openings must not be obstructed by carpeting when the washing machine is installed on a carpeted floor.

6. FEATURE AND TECHNICAL EXPLANATION

Feature of the Washing Machine

- 1 The first air bubble washing system in the world.
- 2 Quiet washing through the innovational low-noise design.
- 3 The wash effectiveness is much more enhanced because of the air bubble washing system.
- 4 The laundry detergent dissolves well in water because of the air bubble washing system.
- 5 The adoption of the water currents to adjust the unbalanced load.
- 6 One-touch operation system.

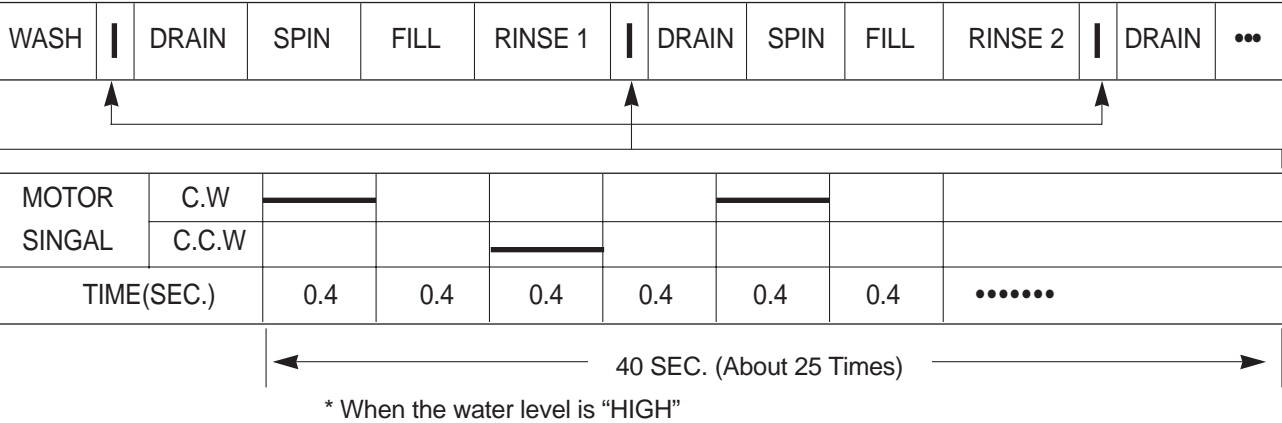
Water Current to Adjust the Unbalanced Load

It is a function to prevent eccentricity of the clothes after wash by rotating pulsator C.W and C.C.W for 35 seconds.(But, the SUIT course have no operation of the water currents to adjust the unbalanced load.)

EFFECT

It reduces vibration and noise effectively while spinning.

WATER FLOW

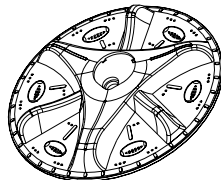
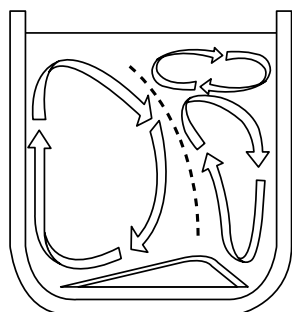


Automatic Water Supply System For Blanket Wash

The water level would be lowered because the blanket absorbs water at the beginning of washing. Therefore, after 60 seconds, the operation is interrupted to check the water level, and then the water is supplied again until the selected water level is reached.

Pul sator System

When the pulsator is rotated C.W or C.C.W at a high speed, it makes the cyclone water flow from the asymmetrically designed pulsator as shown below.



Asymmetrically designed pulsator makes the cyclone water flow, which get rid of the washing dead zone to increase the washing effect and reduce the entanglement of laundry.

Automatic Draining time Adjustment

This system adjusts the draining time automatically according to the draining condition.

Draining condition	Good draining	The washer begins spin process after drainage.
	Bad draining	Draininig time is prolonged.
	No draining	Program is stopped and gives the alarm.

FUNCTIONAL PRINCIPLE

- The micom can remember the time from the begining of drain to reset point when the pressure switch reaches to "OFF" point

Drain Time	Movement of the Program
Less than 10 minutes	Continue draining
More than 10 minutes	Program stops and gives the alarm with DE blinked on display lamp.

- In case of continuous draining, residual drain time is determined by micom.

Draining time as a whole = D + 30

Residual drain time.
The time remembered by micom.

Softener Dispenser

This is the device to dispense the softener automatically by centrifugal force.

This is installed inside the auto-balancer.

FUNCTIONAL PRINCIPLE

- 1 Softener stays in room (A) when poured into softener inlet.
- 2 Softener moves from (A) to (B) by centrifugal force during intermittent spin process.
- 3 Softener flows from (B) to (C) during rinse process next to intermittent spin.
- 4 Softener moves from (C) to (D) by centrifugal force during second intermittent spin.

After spin process is finished, the softener is added into the tub through softener outlet.

FLOW OF THE SOFTENER

	Wash	Intermittent Spin	Hold	Intermittent Spin	Rinse	Spin
Normal	Centrifugal force		Flow in	Centrifugal force	Flow in	
Course	(A) →	(B) →	(C) →	(D) →		

FLOW OF THE SOFTENER INSIDE OF THE BALANCER

Room inside the balancer	Ⓐ	Ⓑ	Ⓒ	Ⓓ
Centrifugal force ↑				
Flowing by weight →				

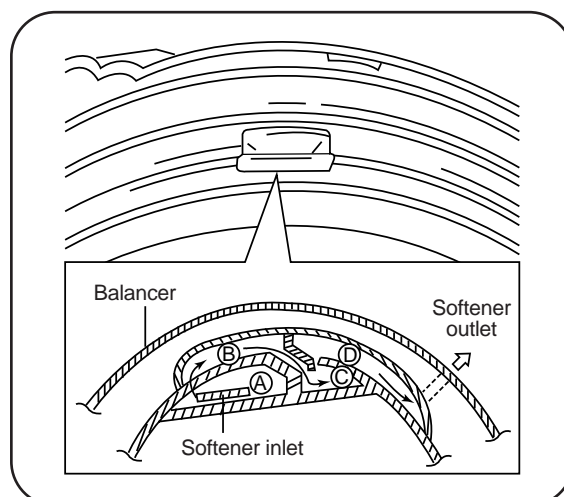


NOTES

Softener moves into the next room when r.p.m of the tub is more than 100 r.p.m.

HOW TO CHECK MOVEMENT

Pour a reasonable amount of "MILK" into softener dispenser and operate the washer with no load. In final rinse cycle, make sure that the milk is added into the tub through softener outlet.

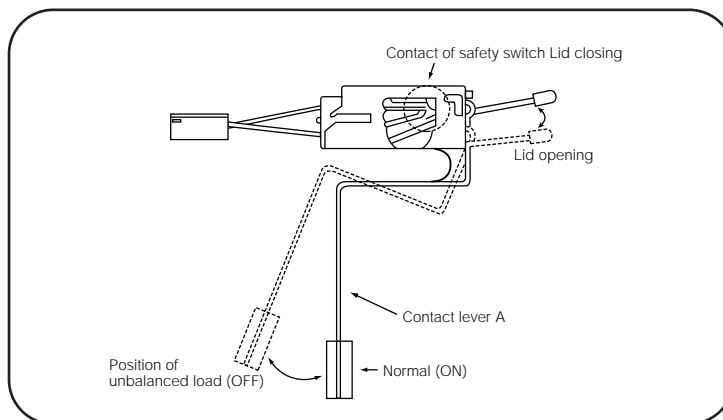


Automatic Unbalance Adjustment

This system is to prevent abnormal vibration during intermittent spin and spin process.

FUNCTIONAL PRINCIPLE

- 1 When the lid is closed, the safety switch contact is "ON" position.
- 2 In case that wash loads get uneven during spin, the outer tub hits the safety switch due to the serious vibration, and the spin process is interrupted.
- 3 In case that P.C.B. ASS'Y gets "OFF" signal from the safety switch, spin process are stopped and rinse process is started automatically by P.C.B. ASS'Y.
- 4 If the safety switch is operated due to the unbalance of the tub, the program is stopped and the alarm is given.



NOTES

The alarm finished when you close the lid after opening it. Check the unbalance of the wash load and the installation condition.

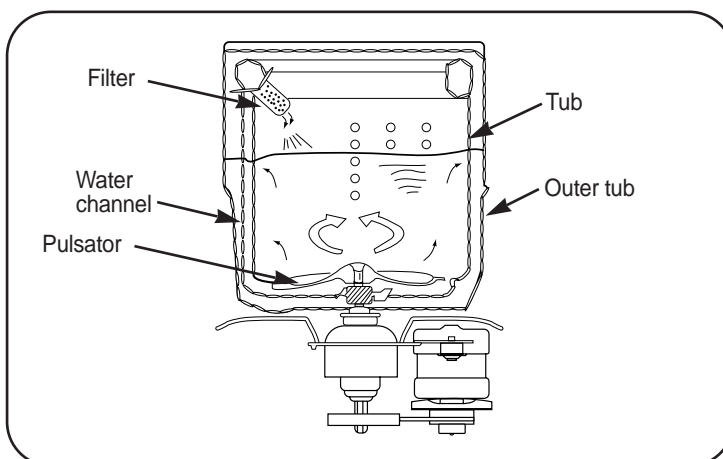
Circulating-Water Course and Lint Filter

CIRCULATING-WATER

The washing and rinsing effects have been improved by adopting the water system in which water in the tub is circulated in a designed pattern.

When the pulsator rotates during the washing or rinsing process, the water below the pulsator vanes creates a water currents as shown in figure.

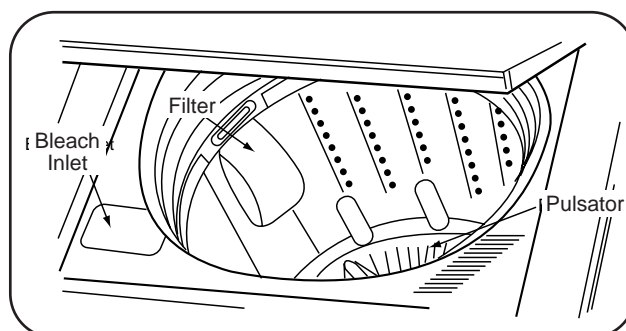
The water is then discharged from the upper part of the tub through the water channel. About 40 L/min. water is circulated at the 'high' water level, standard wash load and standard water currents.



Lint Filter

Much lint may be obtained according to the kind of clothes to be washed and some of the lint may also sticks to the clothes.

To minimize this possibility a lint filter is provided on the upper part of the tub to filter the wash water as it is discharged from the water channel. It is good to use the lint filter during washing.



HOW TO REPLACE LINT FILTER

- 1 Pull the filter frame upward.
- 2 Turn the lint filter inside out, and wash the lint off with water.
- 3 Return the filter as it was, and fix the filter frame to the slot.

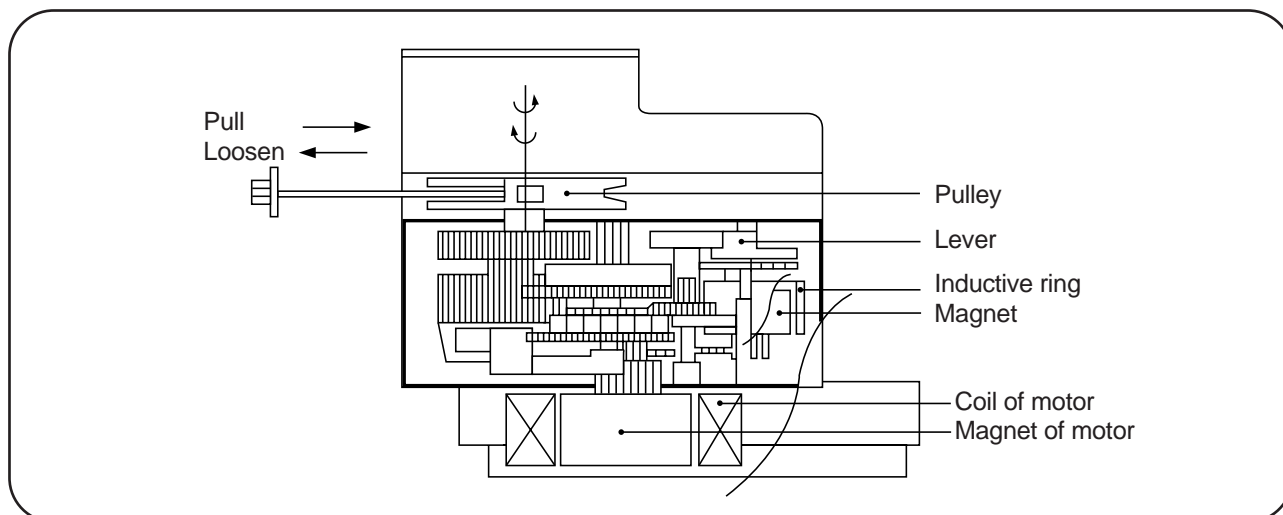
Residual Time Display

When the START/HOLD button is pressed, the residual time (min.) is displayed on the time indicator, and it will be counted down according to process.

When operation is finished, the TIME INDICATOR will light up .

Drain Motor

STRUCTURE

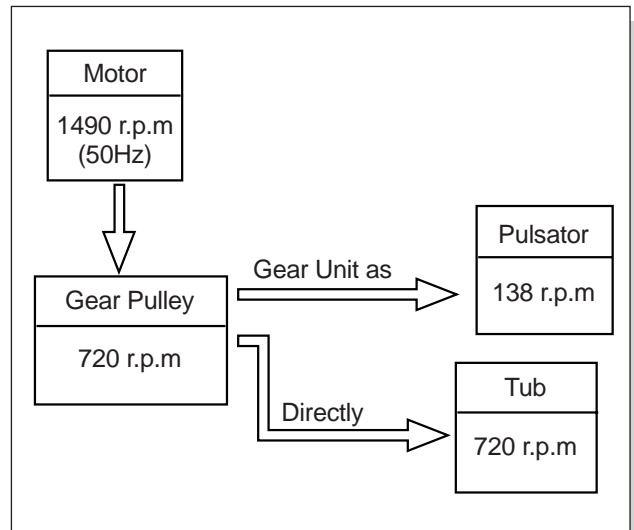
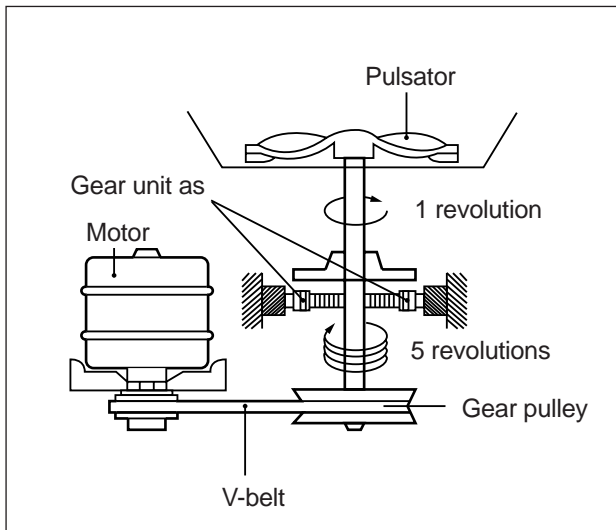
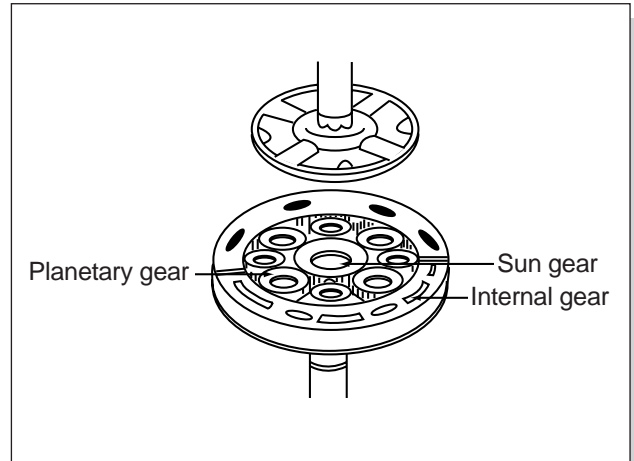
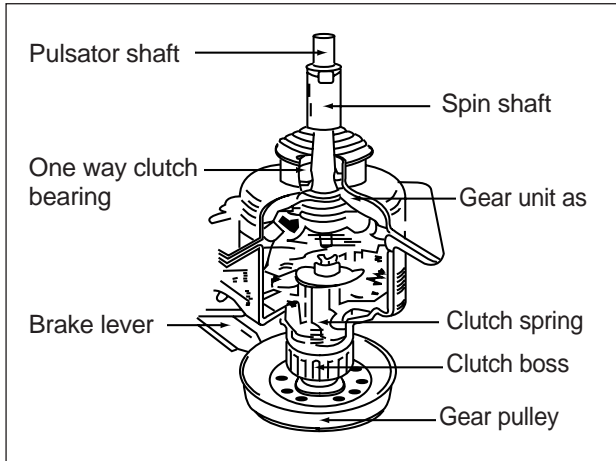


FUNCTIONAL PRINCIPLE

- 1 When the DRAIN MOTOR connected to the power source, the DRAIN MOTOR rotates with 900 r.p.m and revolves the pulley by gear assembly for reducing.
- 2 When the pulley is rotated, the pulley winds the wire to open the drain valve.
- 3 Therefore, rotation of pulley changed to the linear moving of wire.
- 4 The wire pulls the brake lever of Gear Mechanism Ass'y within 5 seconds.
- 5 After the wire pulled, gear assembly is separated from motor and condition of pulling is held by operation of the lever.
- 6 When the power is turned off, the drain valve is closed because the wire returns to original position.

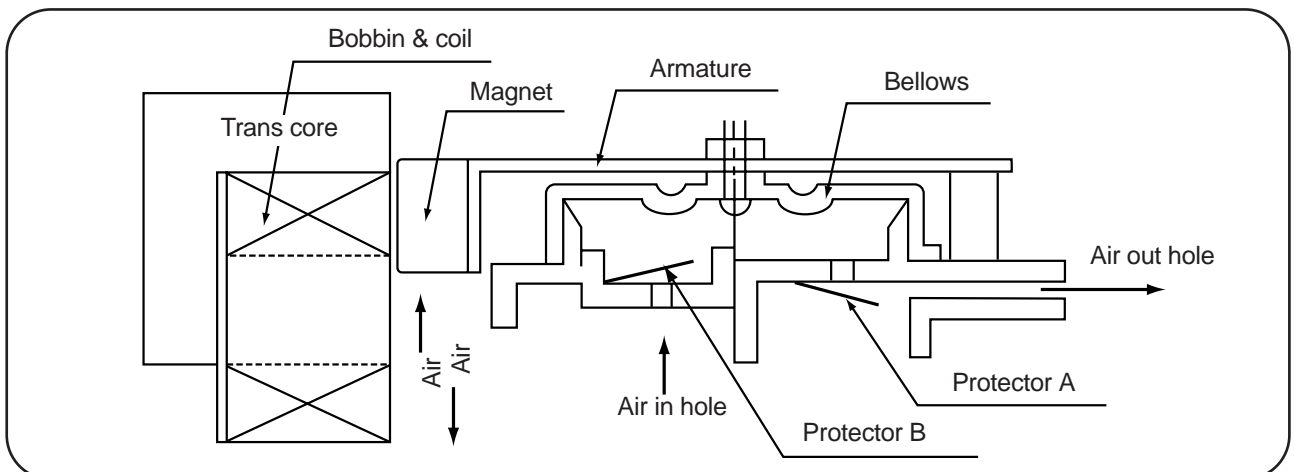
Gear Mechanism Ass'y

The proper water currents is made by the rotation of pulsator at a low speed to prevent the damage to the small sized clothes.



Principle of Bubble Generator

STRUCTURE



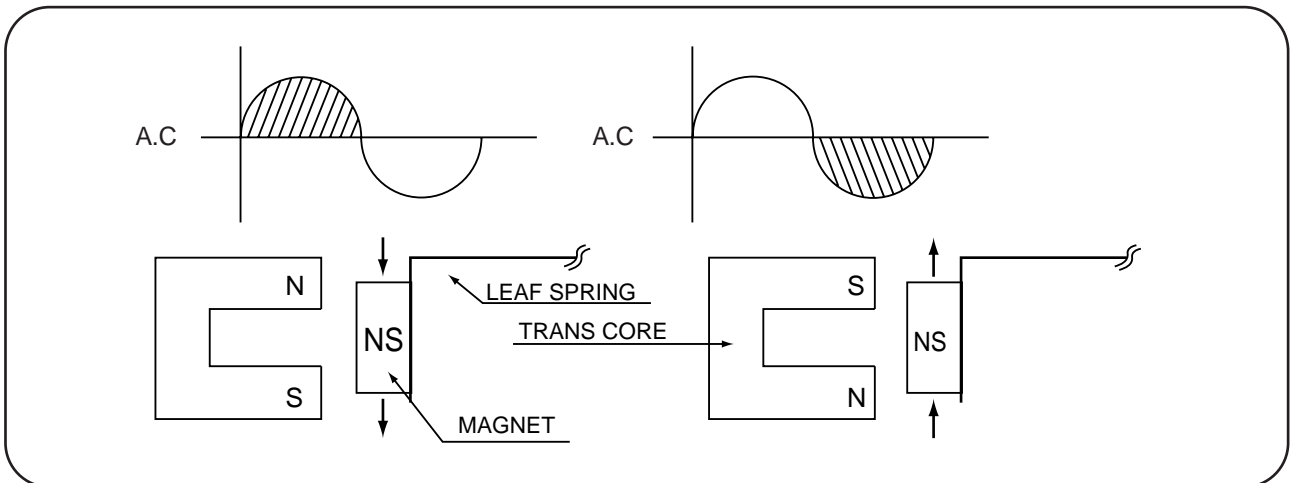
PRINCIPLE OF INTAKE & OUTLET OF THE AIR

INTAKE : ARMATURE moves up, and BELLOWS inhales the air. At the same time, protector B is open and A is close.

OUTLET : ARMATURE moves down, and BELLOWS exhales the air. At the same time, protector B is close and A is open.

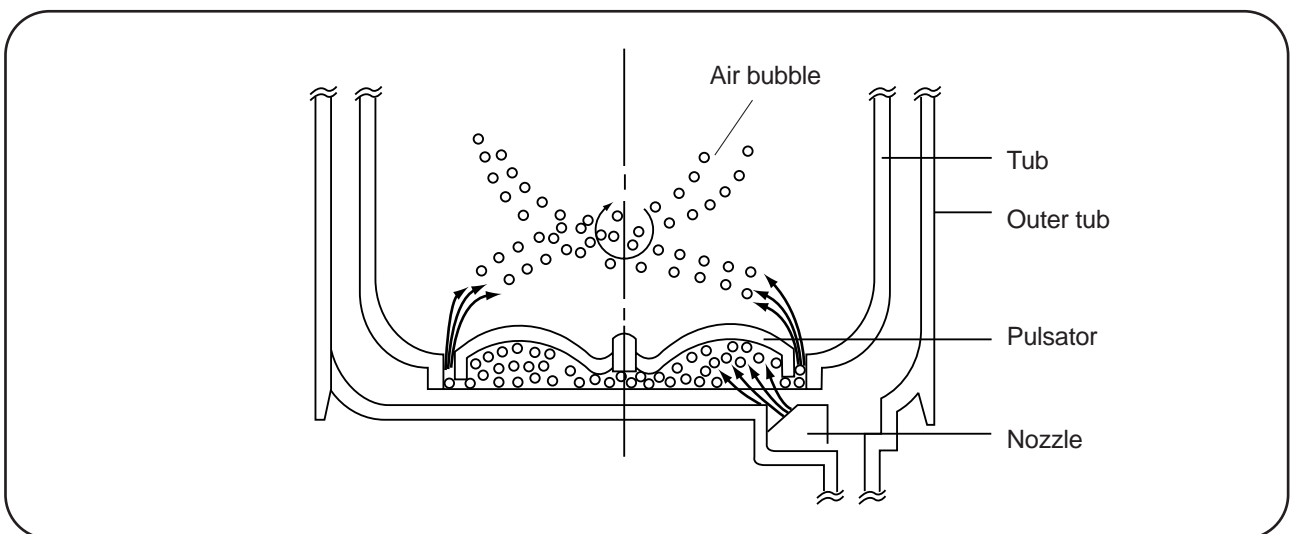
FUNCTIONAL PRINCIPLE OF TRANS & MAGNET

- i The phase of A.C electric power changes to 60 cycle/second.
- i The magnetic pole of trans core is changed by the change of the phase of A.C electric power.
- i The core repeats push and pull (3600 times/min.) of the at mature magnet.



Functional Principle of Bubble Washing Machine

ACROSS SECTION



FUNCTIONAL PRINCIPLE

Bubble generator supplies the air from the bottom of outer tub to the inner space of pulsator, the air is dispersed by the rotation of pulsator. Air-bubble is created by the centrifugal force, and rises up.

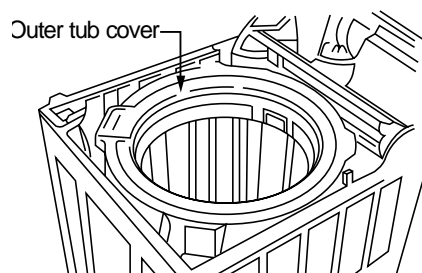
7. DIRECTIONS FOR DISASSEMBLY AND ADJUSTMENT

Warning

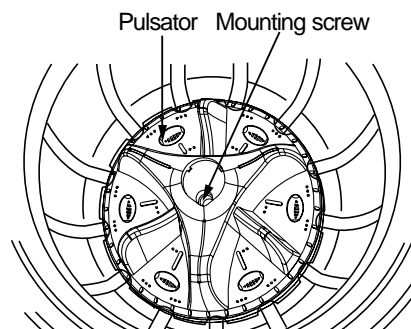
BEFORE ATTEMPTING TO SERVICE OR ADJUST ANY PART OF THE WASHING MACHINE, DISCONNECT THE POWER CORD FROM THE ELECTRIC OUTLET.

Gear Mechanism Ass'y Replacement

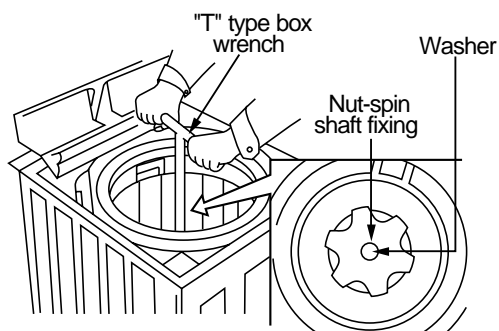
- ; Raise the top plate on the outer cabinet.
- ; Remove outer tub cover from the tub ass'y.



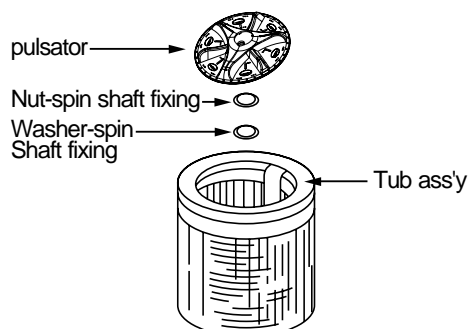
- ; Loosen the pulsator mounting screw and remove the pulsator.



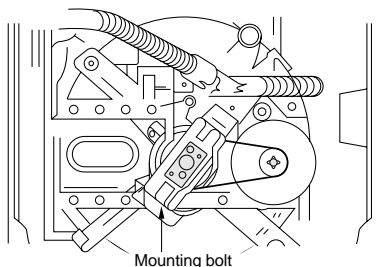
- ; Remove the spinner shaft flange nut by using 'T' type box wrench.



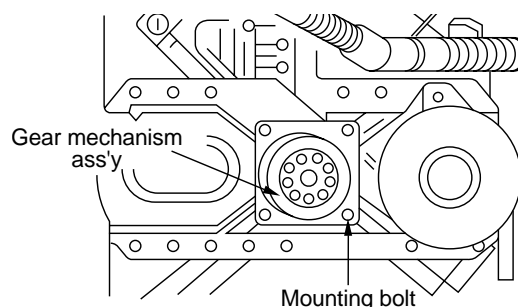
- ; Remove the tub ass'y.



- ; Lay the front of the washer on the floor.
- ; Remove four bolts mounting the plate-gear protect by using a box wrench and remove plate-gear protect.
- ; Remove the V-belt.



- ; Remove four bolts mounting the gear mechanism ass'y by using a box wrench.
- ; Pull out the gear mechanism ass'y.

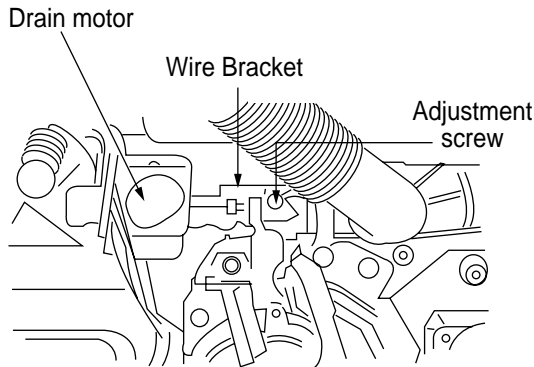


NOTES

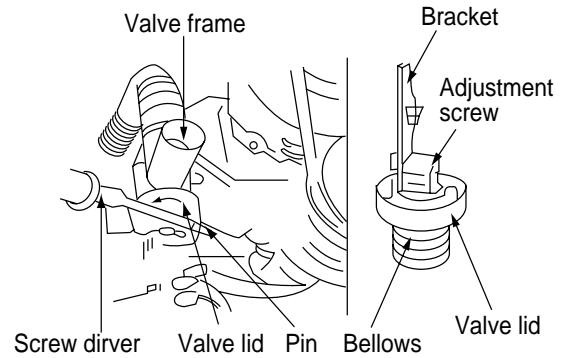
To assemble the gear mechanism ass'y, reverse the disassembly procedure.

Drain Motor and Valve

- ; Lay the front of the washer on the floor.
- ; Loosen the adjustment screw and two bolts mounting the drain motor.
- ; Take out the wire of drain motor from the bracket.

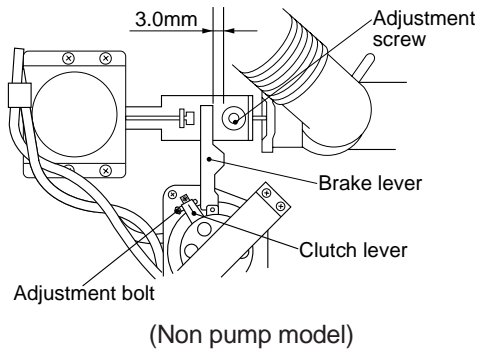


- ; Separate the drain motor from the bracket.
- ; Turn the valve lid by using screw driver as shown in figure and remove the valve lid from the valve frame.

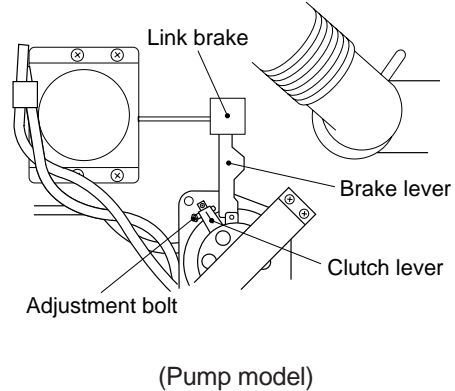


Brake Adjustment

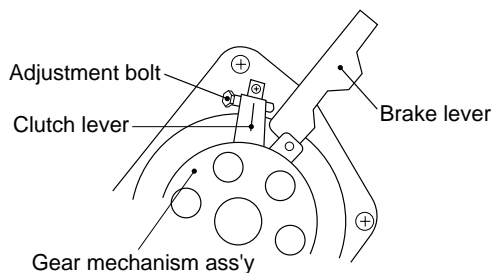
- ; Loosen the adjustment screw fastening the bracket and place the adjustment screw to the brake lever as shown in figure.
- ; Tighten the adjustment screw completely.



- ; Tighten the link brake screw completely.



- ; Loosen the adjustment bolt and turn the adjustment bolt until the end of the bolt touches to the brake lever.
- ; Tighten the lock nut and apply a small amount of paint-lock.









NOTES:

1. The brake adjustment has been made at the factory, so that it is not re-adjust. However, in case of insufficient brake operation, problem the upper procedure.
2. Overtightening of the adjustment bolt will cause poor brake performance.
3. Undertightening of the adjustment bolt will cause continuous braking and thereby cause the problems of the motor during the spingcycle.

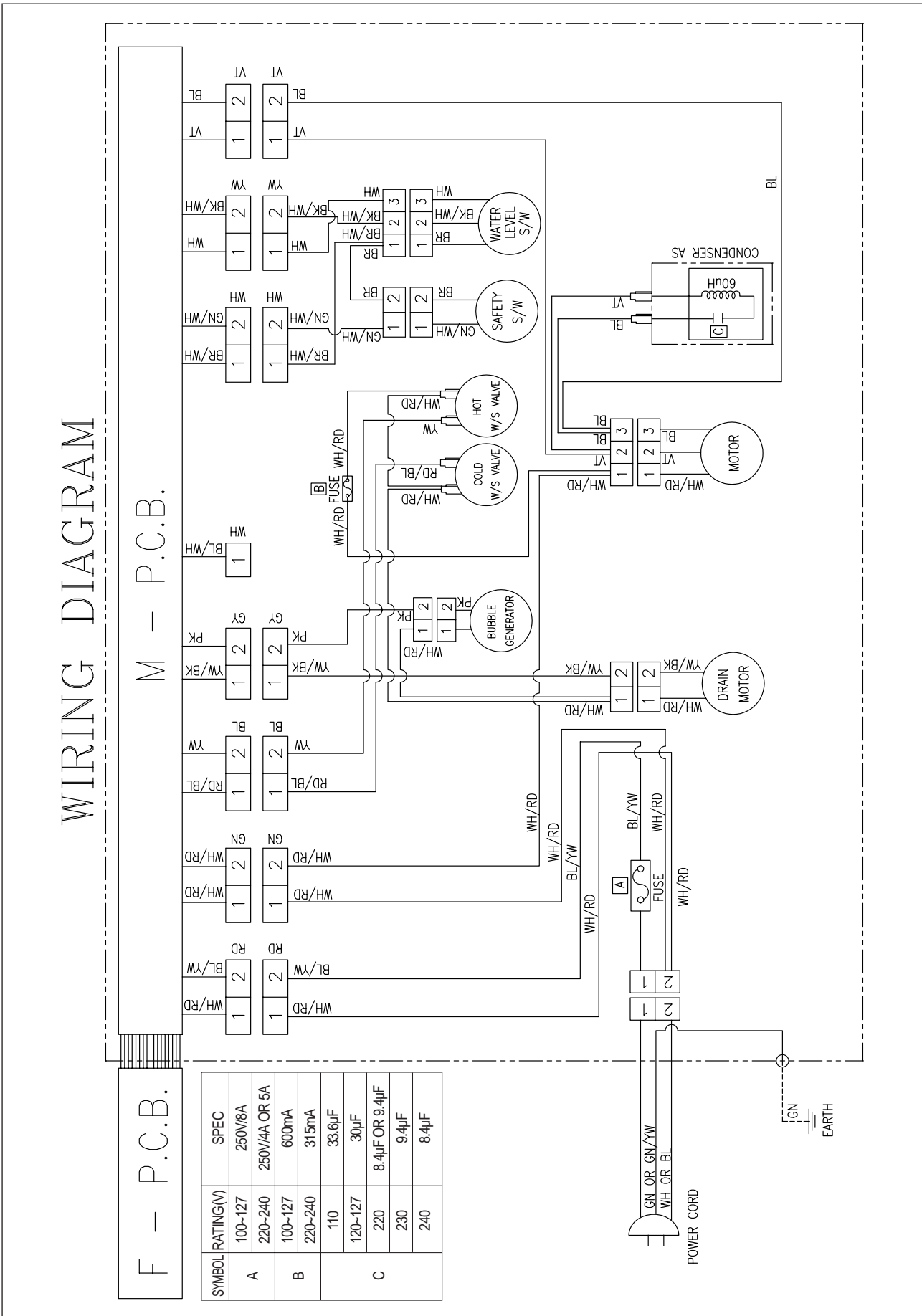
9. PRESENTATION OF THE P.C.B ASS'Y

Concerning Error Message

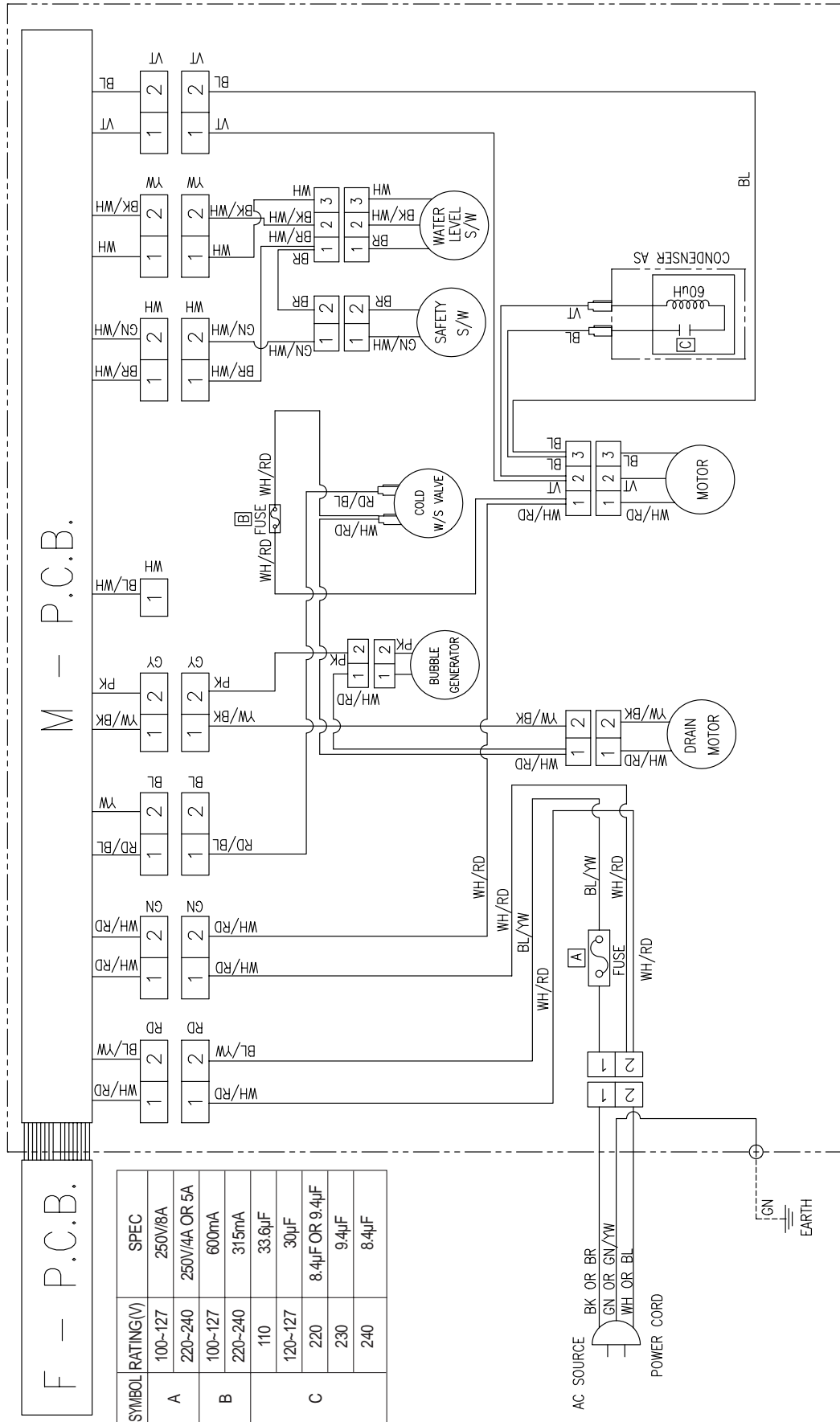
MESSAGE	CAUSE	SOLUTION
	Improper installation of drain hose.	Install drain hose properly.
	The drain hose is blocked up by foreign matter.	Remove foreign matter from drain hose.
	Drain motor is inferior.	Change drain motor.
	The water tap is closed.	Open the water tap.
	The water inlet filter clogged.	Clean the water inlet filter.
	It passes over the 30 minutes, yet it doesn't come to assigned water level.	Check whether or not it comes to the assigned water level.
	Wash loads get uneven during spin.	Re-set wash loads evenly.
	Poor installation of the unit.	Proper installation.
	The lid is opened.	Close the lid.
	The safety switch is inferior.	Change the safety switch.
	The load sensing is inferior. After the load sensing operates about 7 seconds, the message is displayed during 1 second and water level is always fixed 'high'.	Change the P.C.B. ASS'Y.
	The water level sensing is inferior.	Check the water level sensor and the contact part of the connector.

APPENDIX

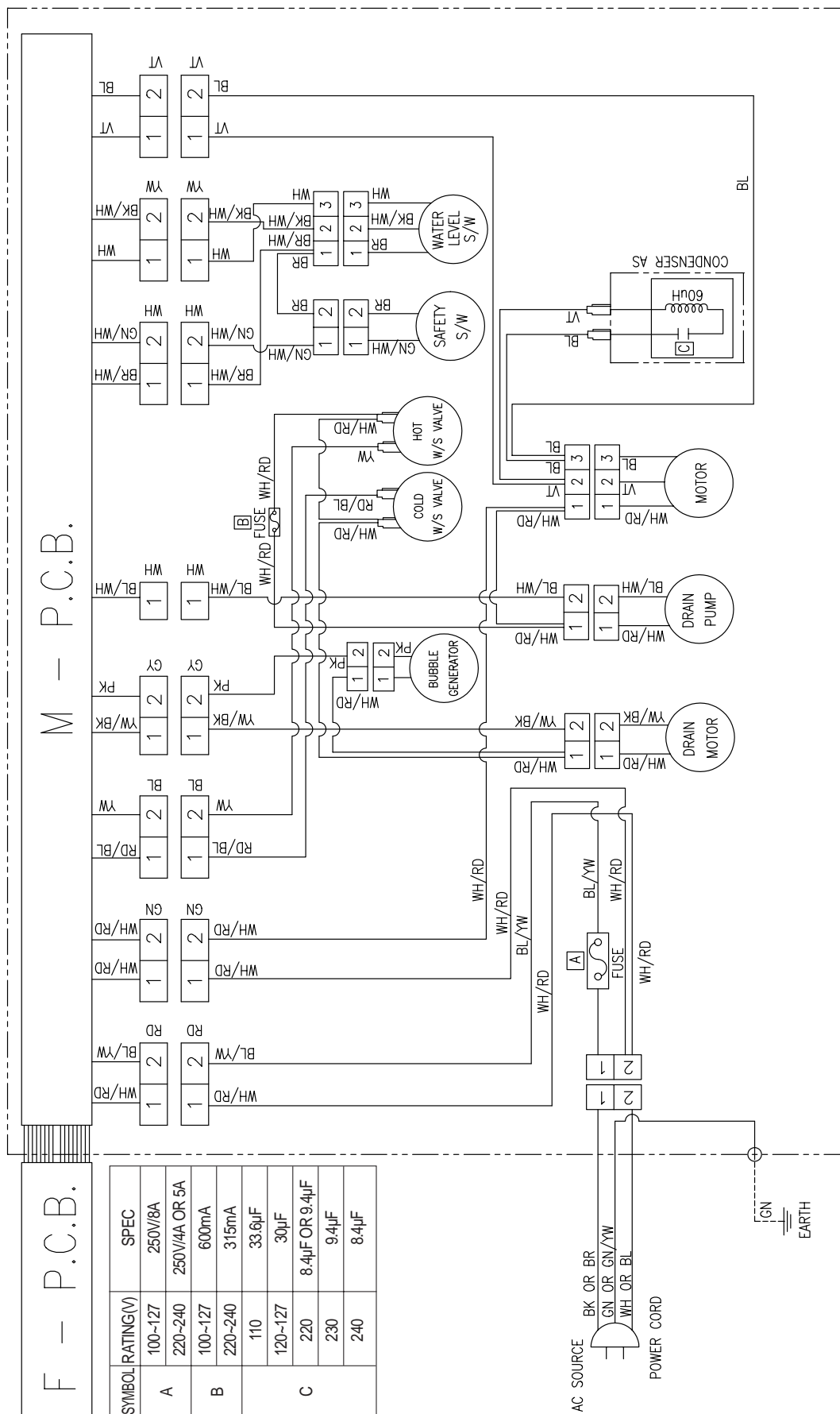
§ Wiring Diagram [non-pump]



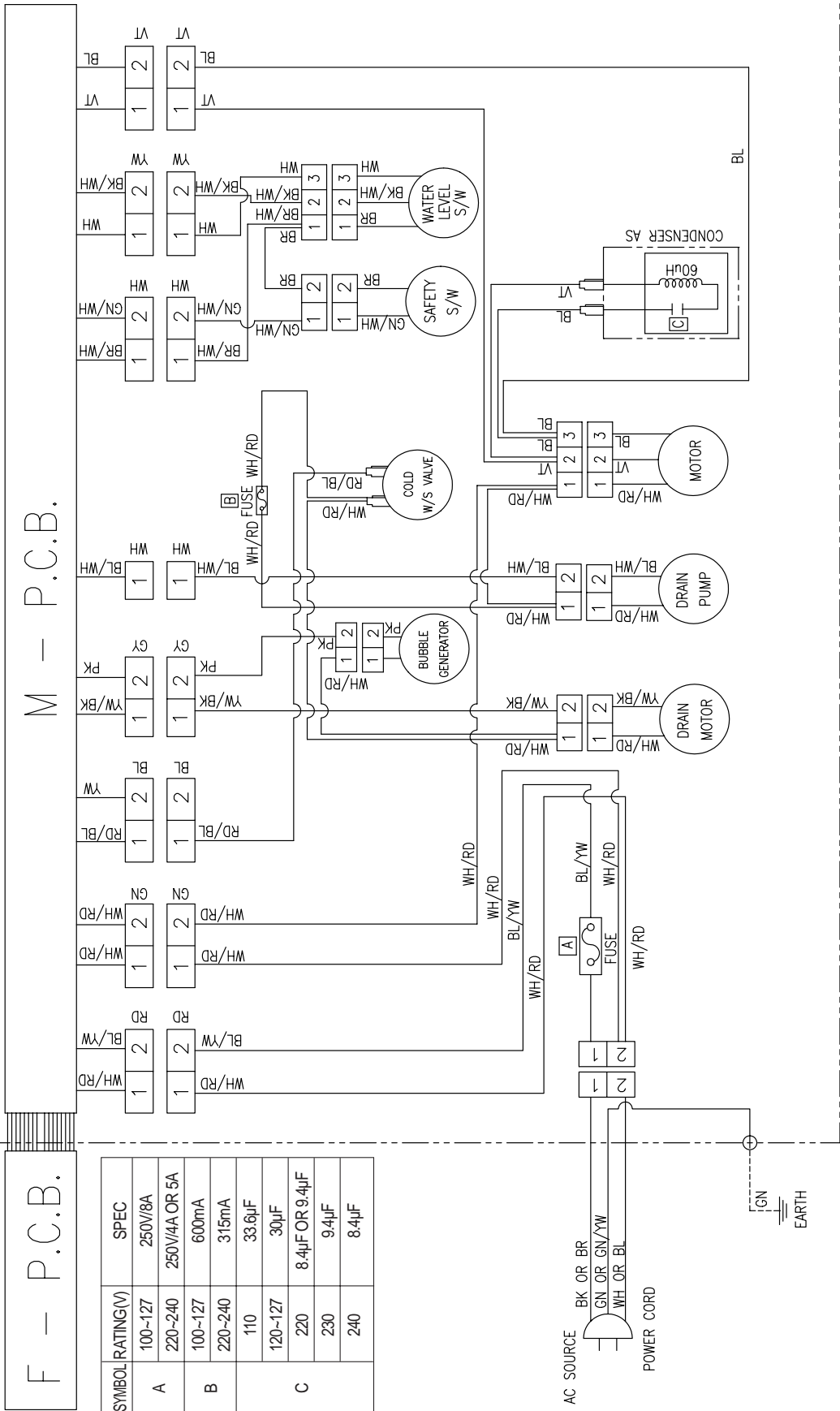
WIRING DIAGRAM



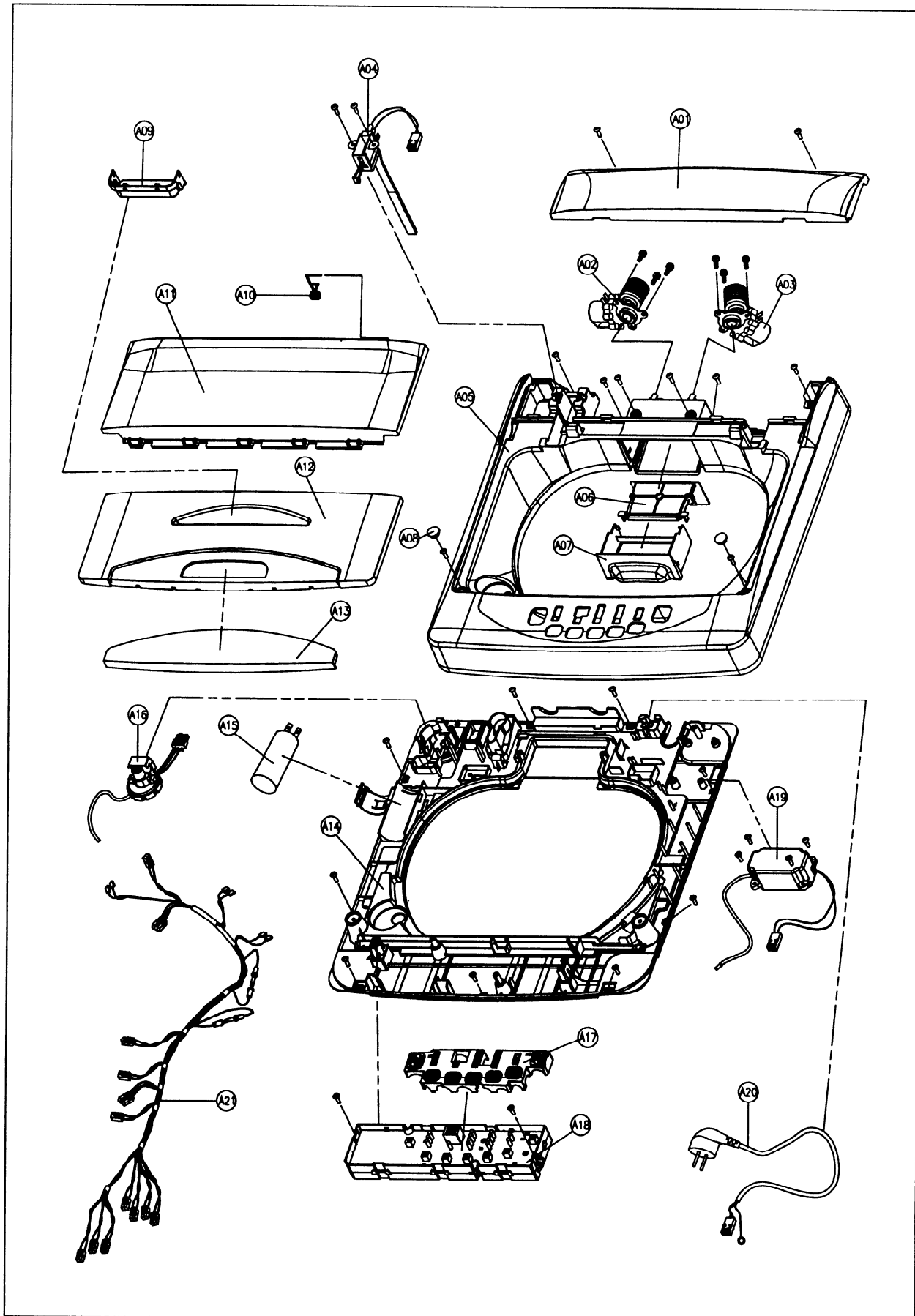
WIRING DIAGRAM



WIRING DIAGRAM



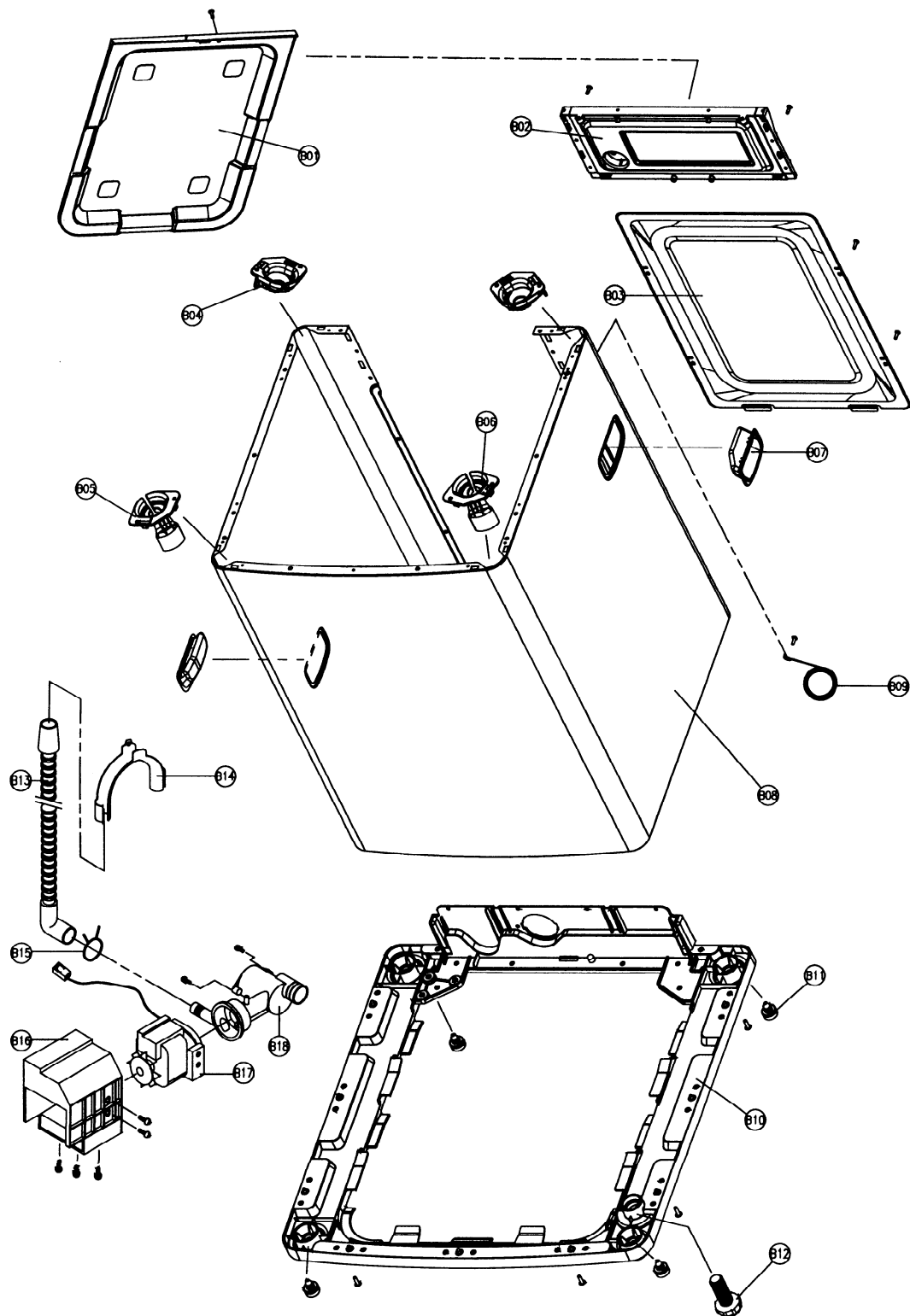
■ PARTS DIAGRAM



Parts List

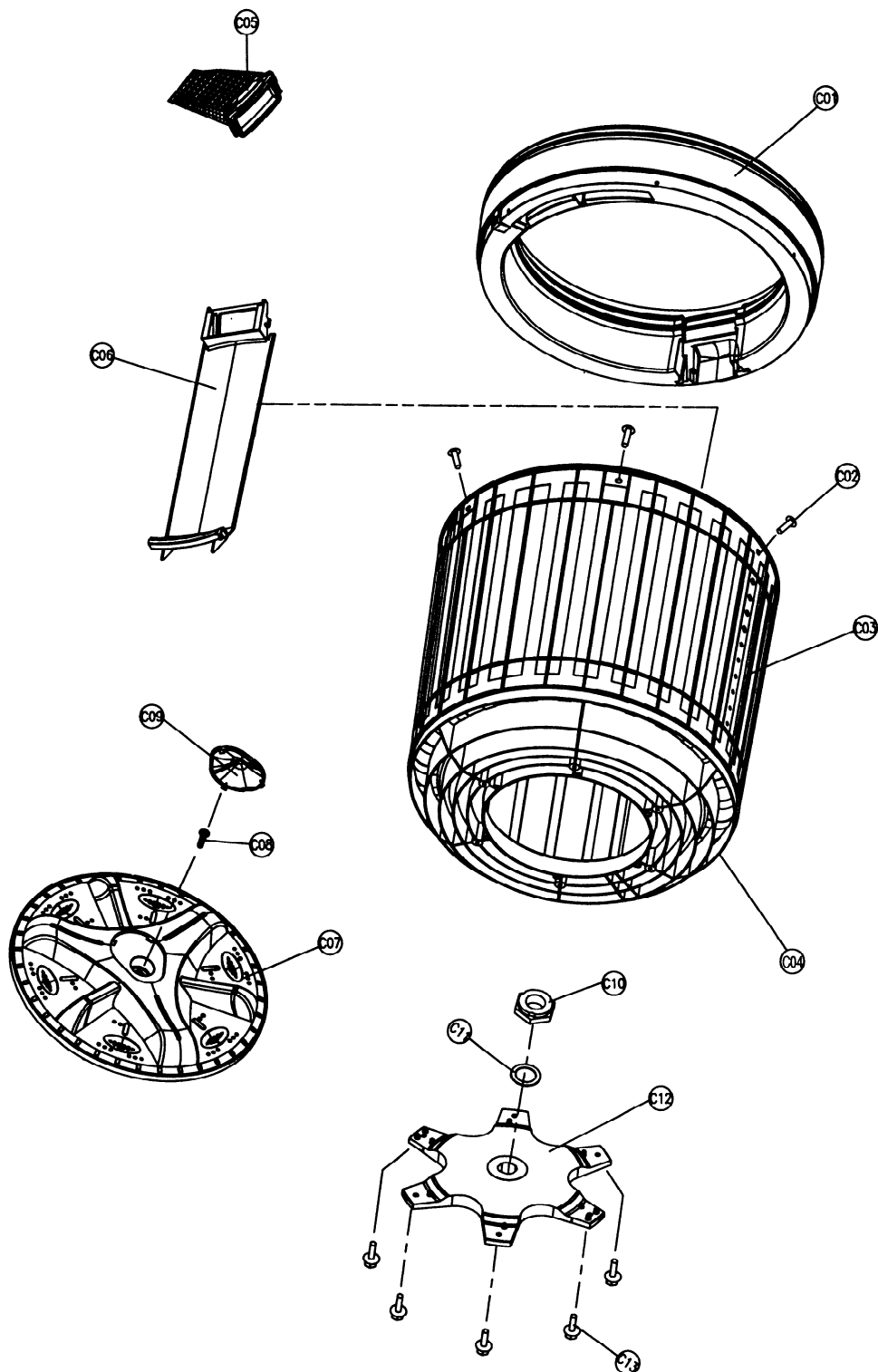
LOC.	PART NAME	PART CODE	SPECIFICATION	REMARK
A01	PANEL B	3614219200	ABS	6010
A02	VALVE INLET(HOT)	3615403830	AC 220~240V/50Hz	6010
		3615402130	AC 220V~60Hz	6010
		3615403630	AC 110~127V/60Hz	6010
A03	VALVE INLET(COLD)	3615403710	AC 220~240V/50Hz	6010
		3615402010	AC 220V60Hz	6010
		3615403510	AC 110~127V/60Hz	6010
		3615403310	AC 110V/50, 60Hz	6010
A04	SWITCH SAFETY AS	3619006360	DC 15V 10A	6010
A05	PLATE T	3614515000	ABS	6010
A06	NOZZLE DETERGENT	3618102000	PP	6010
A07	CASE DETERGENT	3611116500	ABS	6010
A08	CAP REAR	3610902600	CR	
A09	HANDLE DOOR	3612603600	ABS	6010
A10	DOOR SPRING	3615107700	SUS304	6010
A11	DOOR B	3611718400	ABS	6010
A12	DOOR F	3611718300	ABS	6010
A13	WINDOW DISPLAY	3615501700	ABS	6010
A14	BRACKET	3610602900	PP	
A15	UNIT CAPACITOR AS	3618911700	9.4μF, CAN TYPE	AC 220~230V/50HZ
		3618911600	8.4μF, CAN TYPE	AC 240V/50Hz, AC 220V/60Hz
		3618912000	33.6μF, CAN TYPE	AC 110V/60Hz
		3618911900	30μF, CAN TYPE	AC 127V/60Hz
A16	SENER PRESSURE	3614800960	DC 5V CDN-D7	
A17	PANEL F	3614219100	ABS	6010

LOC.	PART NAME	PART CODE	SPECIFICATION	REMARK
A18	PCB AS	PRPSSW8100	AC 220~230V/50Hz PUMP	6010
		PRPSSW8200	AC 220~230V/50Hz N-PUMP	
		PRPSSW8101	AC 240V/50Hz PUMP	6010
		PRPSSW8201	AC 240V/50Hz N-PUMP	
		PRPSSW8102	AC 220V/60Hz PUMP	6010
		PRPSSW8202	AC 220V/60Hz N-PUMP	
		PRPSSW8103	AC 110V/60Hz PUMP	6010
		PRPSSW8203	AC 110V/60Hz N-PUMP	
		PRPSSW8104	AC 127V/60Hz PUMP	6010
		PRPSSW8204	AC 127V/60Hz N-PUMP	
		PRPSSW8205	AC 100V/50,60Hz	6010
A19	ASSY BUBBLE	3618946300	AC 220~240V/50,60Hz	
		3918946400	AC 110~127V/50,60Hz	
A20	CORD POWER AS	3611304600	LFC-3R 3X0.75 2.3M GY	AUSTRALIA, ARGENTINA
		3611304700	F H05W 3X0.75 2.3M WH	CHILE
		3611304800	RW-300/500 3X0.75 2.3M	PR. CHINA
		3611304900	- VCTF 3X0.75 2.3M	INDIA
		3611305000	R VCTFK 2X1.25 2.3M GY	JAPAN
		3611305100	U VCTF 3X0.75 2.3M GY	KOREA
		3611305200	P VCTF 3X0.75 2.3M GY	KUWAIT
		3611305300	- VCTF 3X0.75 2.3M WH	MALAYSIA
		3611305400	- H05W-F 3X0.75 2.3M BK	SINGAPORE
		3611305500	A - VCTFK 2X0.75 2.3M GY	TAIWAN
		3611305600	F H05W 3X0.75 2.3M BK	USSR, HUNGARY
		3611305700	C SJT 3X18AWG 2.2M GY	PANAMA, USA
		3611305800	H05W-F 3X0.75 2.3M GY	SOUTH AFRICA
		3611305900	P VCTF 3.0.75 2.3M WH	OMAN
A21	HARNESS ASSY	3612754500	NON OPTION	PUMP
		3612754510	NON-BUBBLE PUMP	
		3612754520	NON-HOT INLET VALVE	
		3612754530	FULL OPTION	
		3612754600	NON OPTION	N-PUMP
		3612754610	NON-BUBBLE PUMP	
		3612754620	NON-HOT INLET VALVE	
		3612754630	FULL OPTION	



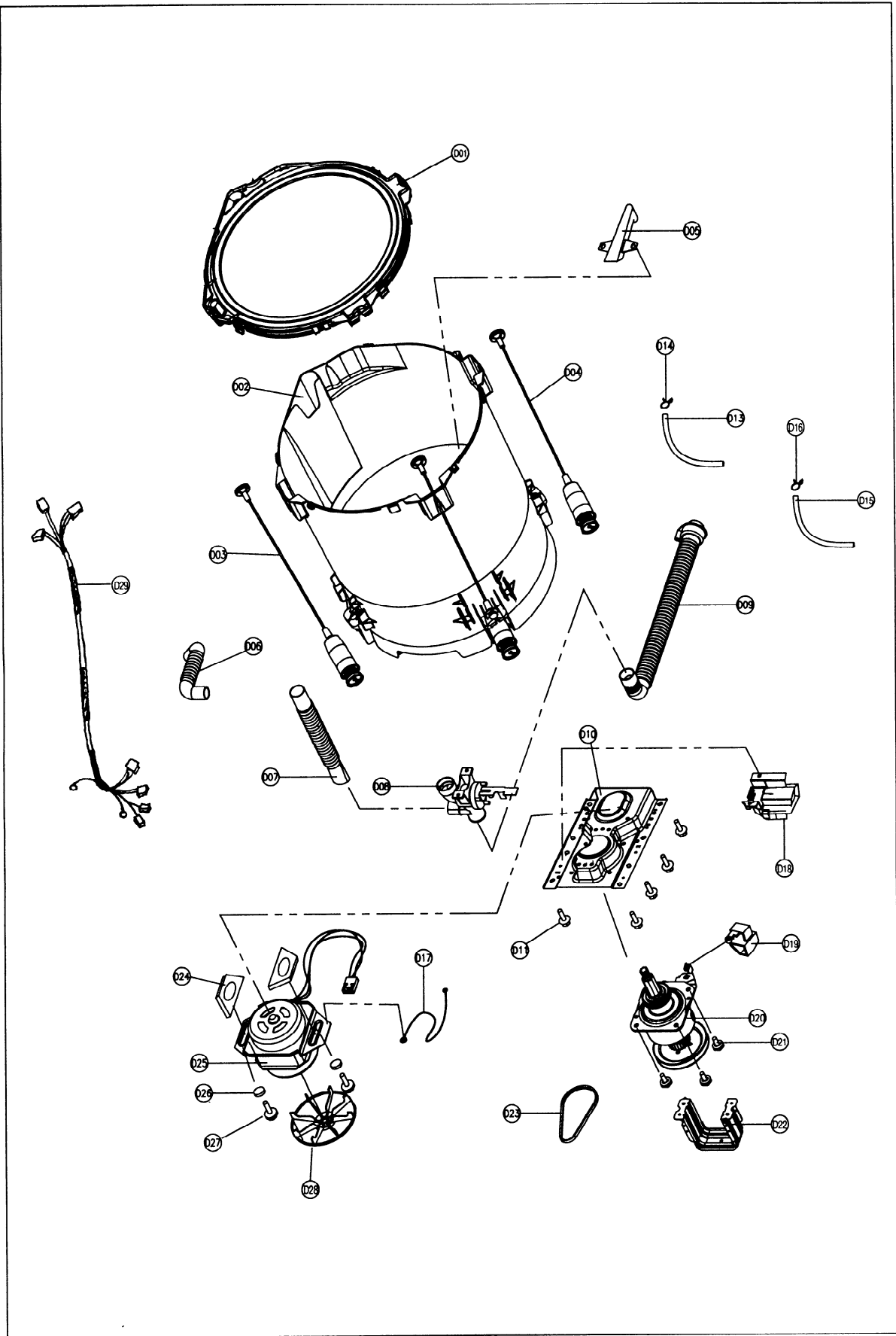
Parts List

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Parts List

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Parts List

LOC.	PART NAME	PART CODE	SPECIFICATION	REMARK
D01	COVER TUB O	3611414600	PP	
D02	TUB O	3618807600	PP	
D03	SUSPENSION AS F	3619802300	DWF-5510NP	
D04	SUSPENSION AS B	3619802400	DWF-5510NP	
D05	NOZZLE BODY	3618101400	PP	
D06	HOSE DRAIN I	3613220600	TPE	PUMP
D07	HOSE OVERFLOW	3613220700	L=245	N-PUMP
D08	VALVE DRAIN AS	3615404020	5591D, VE	N-PUMP
D09	HOSE DRAIN I AS	3613221800	DWF-5510N	N-PUMP
D10	BASE	3610302900	SECEN 1.6t	
D11	SPECIAL BOLT BASE	4505E83100	6.5x23	
D12	HARNESS SUB AS	3612754900	SUB HARNESS+EARTH	PUMP
		3612754910	SUB HARNESS+EARTH	N-PUMP
D13	HOSE	4500D08220	ID=8, L=20	CAVITATION HOSE
D14	CLAMP	4500D08180	SWC BUBB PIE=8	
D15	HOSE	4500D08220	ID=8, L=30	BUBBLE HOSE
D16	CLAMP	4500D08180	SWC BUBB PIE=8	
D17	HARNESS EARTH INNER	3612755700	L=180	CHILE
D18	SYNCHRONOUS MOTOR	3966010270	AC 220~240V/50Hz	PUMP
		3966010260	AC 220~240V/50Hz	N-PUMP
		3966320370	AC 220V/60Hz	PUMP
		3966320360	AC 220V/60Hz	N-PUMP
		450ED45170	AC 110~127V/60Hz	PUMP
		450ED45176	AC 110~127V/60Hz	N-PUMP
		3966130260	AC 100V/50,60Hz	N-PUMP
D19	LINK BRAKE	3617801010	PP	PUMP
D20	GEAR MECHANISM	3617306000	GM-4900-KJ4XO	N-PUMP
		3617306010	GM-4900-KJ4PO	PUMP
D21	BOLT HEX	7640802011	6B-1 8x20 SW MFZN	
D22	PROTECTOR GEAR	3618301300	SBHG 1.6t	
D23	BELT V	4507D34020	M 20	50Hz
		4507B34020	M19.5	60Hz
D24	SPECIAL WASHER	4505E34030	PP	
D25	MOTOR CONDENSER	3964340100	AC 220~240V/50Hz	NP, N, MP, M
		3964340200	AC 220V/60Hz	LP, L
		3964340300	AC 10~127V/60Hz	TP, T, SP, S
D26	SPECIAL WASHER	4505E34040	PP	
D27	BOLT HEX	7650802511	6B-1 8X25 HS MFZN	
D28	PULLY MOTOR AS	3618401420	M-TYPE DS=10 DP=53.0	50Hz
		3618402800	M-TYPE DS=10 DP=48.5	60Hz
D29	HARNESS SUB AS	3612754900	SUB HARNESS + EARTH + PUMP	PUMP
		3612754910	SUB HARNESS + EARTH	N-PUMP

CIRCUIT DIAGRAM

