S/M No. : WF17800001

Service Manual

Auto Washer

Model: DWF-178L

DWF-178M/178W

DWF-179M/179W

✔ Caution

: In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service Information Center (http://svc.dwe.co.kr).

DAEWOO ELECTRONICS CORP.

http : //svc.dwe.co.kr Oct. 2011

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Contents

WASHING MACHINE

1. SPECIFICATIONS

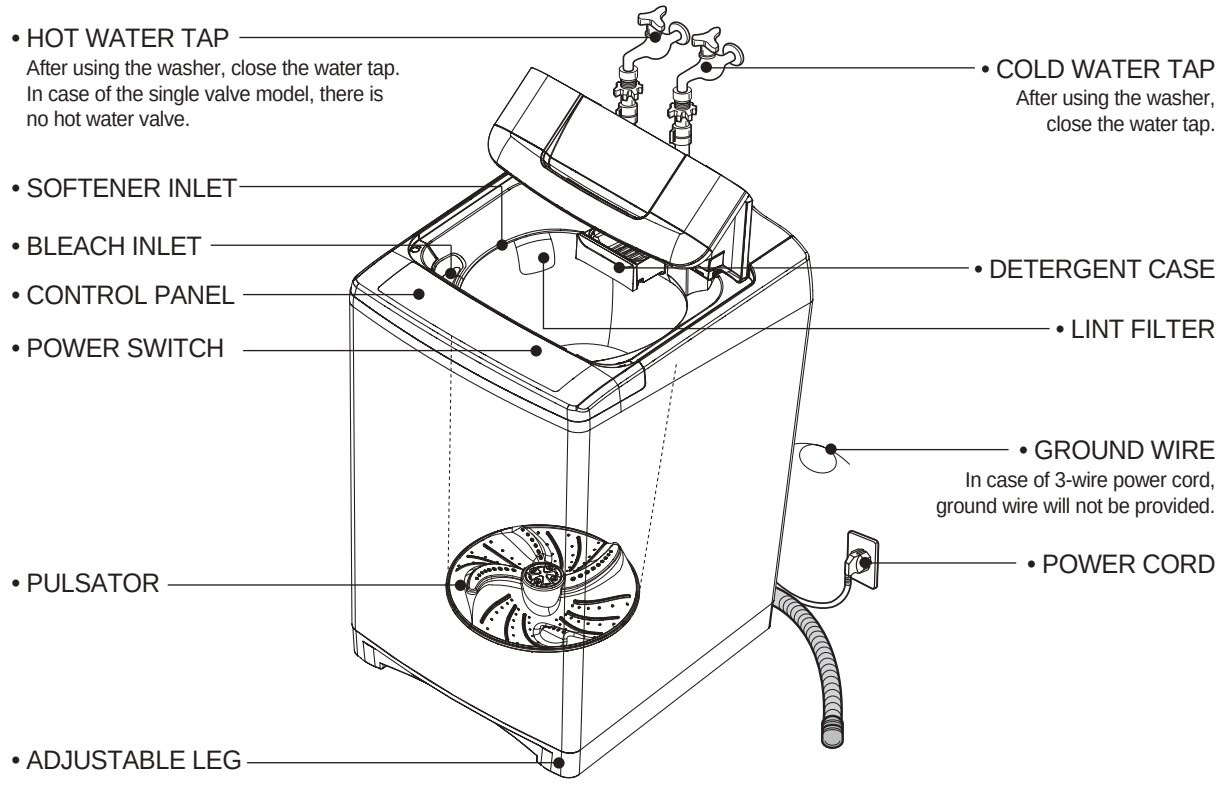
No.	ITEM		DWF-178L	DWF-178M/178W	DWF-179M/179W
1	POWER SOURCE		A.C 110V/60Hz , A.C 220V/60Hz , A.C 220V/60Hz		
2	POWER CONSUMPTION	110V/60Hz	430W		
		220V/50Hz,60Hz	530W		
3	MACHINE WEIGHT		42kg(Non-Pump) / 43kg(Pump)		
4	DIMENSION (WxHxD)		598 x 956 x 643 mm		
5	WASHING COURSE		FULL AUTOMATIC 6 COURSES (FUZZY, BLANKET, ECONOMY, BABY CARE, SPORTS WEAR, DELICATE)		
6	WATER CONSUMPTION		185 ℓ		
7	WATER LEVEL SELECTOR	HIGH	91 ℓ		
		MED	82 ℓ		
		LOW	69 ℓ		
		SMALL	56 ℓ		
8	OPERATING WATER PRESSURE		0.03MPa ~ 0.8MPa (0.3kgf/cm² ~ 8kgf/cm² = 2.94N/cm² ~ 78.4N/cm²)		
9	REVOLUTION PER MINUTE	WASH	130~150 rpm(60Hz) / 125~140 rpm(50Hz)		
		SPIN	710~740 rpm(60Hz) / 640~675 rpm(50Hz)		
10	PULSATOR		TORNADO PULSATOR with 4 WINGS (ø 376mm)		
11	WATER LEVEL CONTROL		ELECTRONIC SENSING		
12	GEAR MECHANISM ASS'Y		HELICAL GEAR		
13	LINT FILTER		O		
14	SOFTENER INLET		O		
15	FUNCTION FOR TIME DELAY (RESERVATION)		O (OPTION)		
16	ALARM SIGNAL		O		
17	RESIDUAL TIME DISPLAY		O		
18	AUTOMATIC WATER SUPPLY		O		
19	FUNCTION FOR BUBBLE		O (OPTION)		
20	AUTOMATIC RE-FEED WATER		O		
21	AUTOMATIC POWER OFF		O		
22	DOOR TYPE (TRANSPARENT)		GLASS DOOR	PLASTIC DOOR	PLASTIC DOOR
			(TRANSPARENT)	(178W/179W : TRANSPARENT) (178M/179M : OPAQUE)	

2. STRUCTURE OF THE WASHING MACHINE

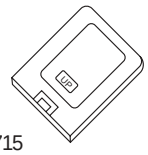
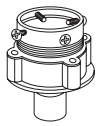
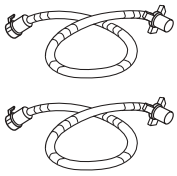
The parts and features of your washer are illustrated on this page.
Become familiar with all parts and features before using your washer.

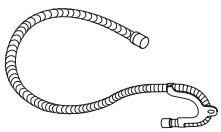
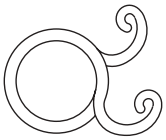
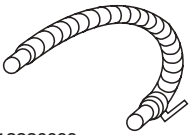
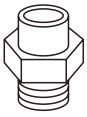
NOTE

- The drawing in this book may vary from your washer model. They are designed to show the different features of all models covered by this book. Your model may not include all features.



Accessories

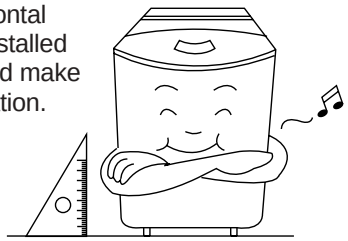
COVER UNDER [OPTION]	WATER TAP ADAPTER	INLET HOSE
 3611402715		

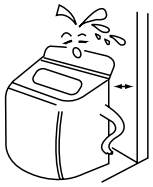
HOSE DRAIN [FOR PUMP]	HOSE DRAIN CLAMP	HOSE DRAIN[FOR NONPUMP]	CONNECTOR INLET [OPTION]
 3613218800		 3613226600	

3. 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.





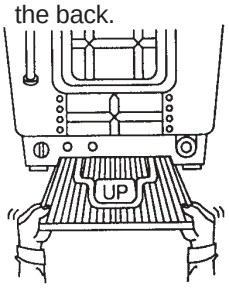
Keep the machine body more than 25cm apart from the wall surface. It will make easy cleaning the drain filter which is equipped at the back side of it. And if it comes into contract vibration may occur.

Never install in these places

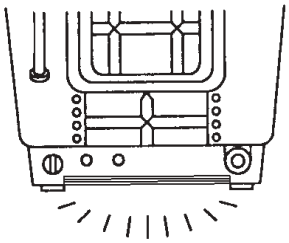
- The place where it would be exposed to direct sunlight.
- The place nearby a heater or heat appliance.
- The place where it would be supposed to be frozen in winter.
- The kitchen with coal gas and a damp place like a bathroom.

Installation Of the COVER UNDER (Noise Insulation Plate)

1 The packing box opened, there is a noise insulation plate. Put the noise insulation plate at the bottom of the back.



2 Push the noise insulation plate into the end, which decrease the noise made by this washer.

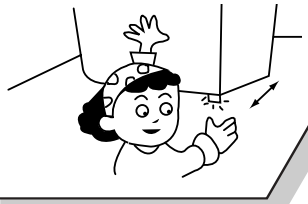


* The drawing of the COVER UNDER is variant from your model.

How To Install On An Inclined Place

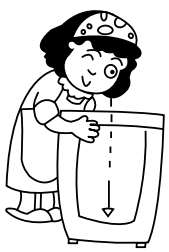
1 Horizon Setting

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

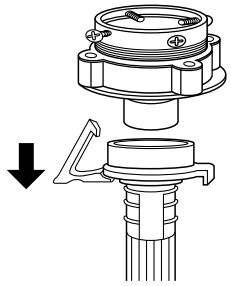
The openings must not be obstructed by carpeting when the washing machine is installed on a carpeted floor.

HOW TO CONNECT THE INLET HOSE

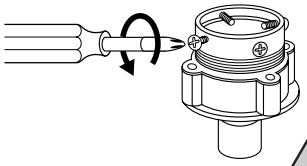
Be careful not to mistake in supplying between the hot(maximum : 50˚C) and cold water.
In using only one water tap or in case of attached one water inlet valve, connect the inlet hose to the cold water inlet valve.
Do not over tighten : This could cause damage to couplings.

• • • • FOR ORDINARY TAP

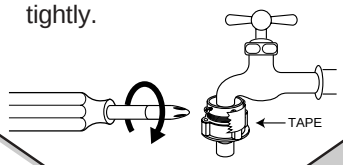
1 Pull down the collar of the inlet hose to separate it from the water tap adapter.



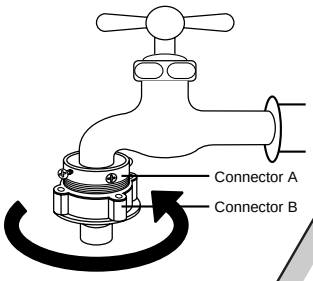
2 Loosen the four screws at the water tap adapter, but don't loosen the screws until they are separated from the water tap adapter.



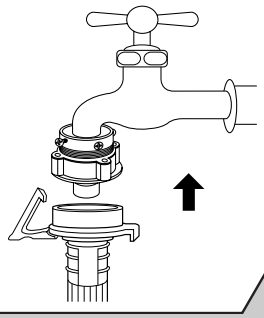
3 Connect the water tap adapter to the water tap tighten the four screws evenly while pushing up the adapter so that the rubber packing can stick to the water tap tightly.



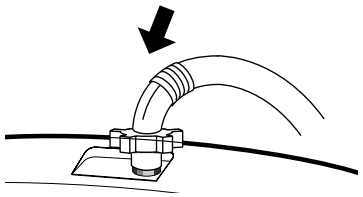
4 Remove the tape, and screw connector B into connector A tightly.



5 Connect the inlet hose to the water tap adapter by puling down the collar of the hose end.



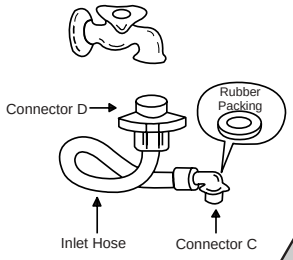
6 Connect the inlet hose adapter of the hose to the water inlet of the washer by turning it clockwise to be fixed tightly.



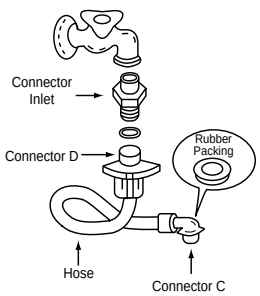
• Please check the rubber packing inside the inlet hose adapter of the hose.

• • • • FOR SCREW-SHAPED TAP

1 Connect the inlet hose to the water tap by screwing the connector D tightly.



2 Connect the connector-inlet supplied if necessary.



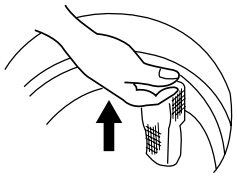
3 Insert the inlet hose adapter into the water inlet of a washer and turn it to be fixed.

• Assert the packing in the inlet.

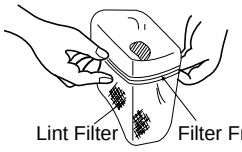
HOW TO CLEAN THE FILTER

• • • • CLEANING THE LINT FILTER

1 Pull the Filter frame upward.



2 Turn the lint filter inside out, wash to the lint off with water.



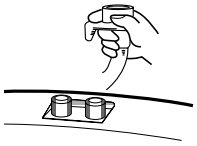
3 Return the filter as it was, and insert the filter frame into the slot.

• • • • CLEANING THE WATER INLET FILTER

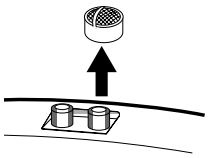
• Clean the filter when water leaks from the water inlet.

1 Pull the power plug out before cleaning it.

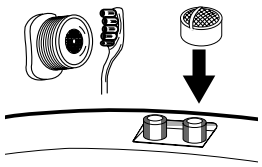
2 Turn off the water supply to the washer and sperate the inlet hose.



3 Pull the inlet filter out.



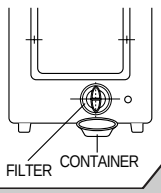
4 Remove the dirt from the inlet filter with a brush.



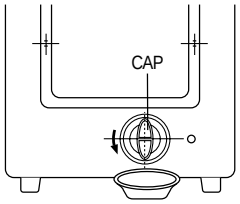
• • • • CLEANING THE DRAIN FILTER

• In case “U” shape drain hose, this filter’s equipped at the back side of washer.
• This drain filter is to screen the foreign stuffs such as threads, coins, pins, buttons etc ...
• If the drain filter is not cleaned at proper time (every 10 times of use), Drain problem could be caused.

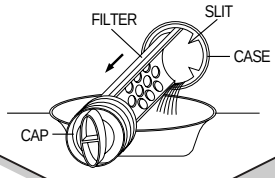
1 Put down the remained water in the hose. And put a container under the filter to collect water.



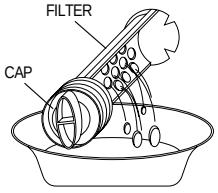
2 Turn the cap counter clockwise.



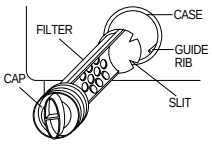
3 Pull out the filter assembly off the case of the main body.



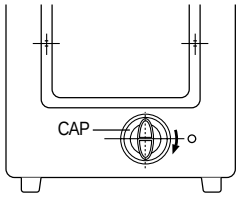
4 Clean the drain filter removing the foreign stuffs.



5 Put in the filter along the guiding prominence of the case. Please note the left position of the filter adjusting the groove to the guide rib.



6 Turn the cap clockwise tightly.



FEATURE OF THE WASHING MACHINE

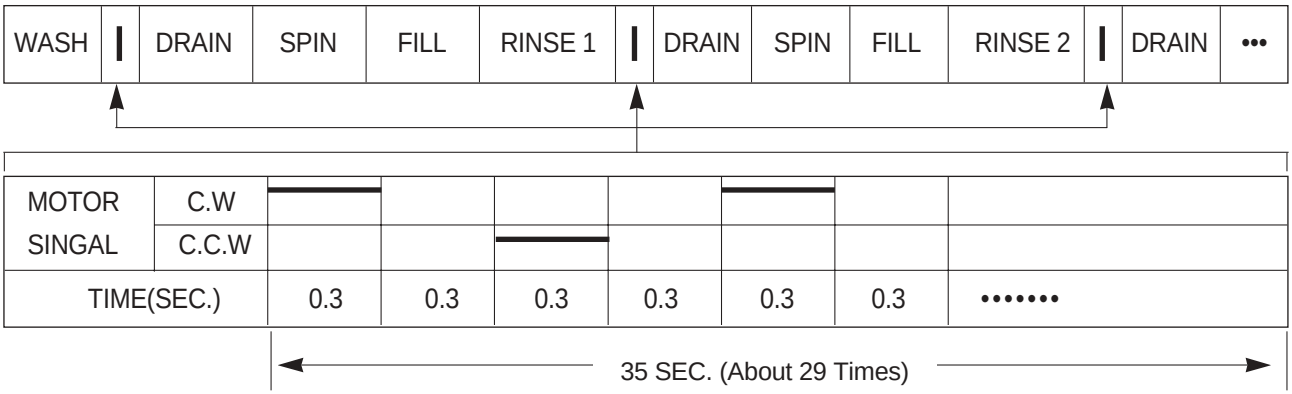
① The first applying Radical Technology in the world....go beyond washing, sterilize your clothes and deodorize a bad smell.(optional function)
② The first air bubble washing system in the world.
③ Quiet washing through the innovational low-noise design.
④ The wash effectiveness is much more enhanced because of the air bubble washing system.
⑤ The laundry detergent dissolves well in water because of the air bubble washing system.
⑥ The adoption of the water currents to adjust the unbalanced load.
⑦ 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 DELICATE course have no operation of the water currents to adjust the unbalnced load.)

EFFECT
It reduces vibration and noise effectively while spinning.

WATER FLOW



FUNCTION FOR SOAK WASH(OPTION)

DISPLAY THE RESIDUAL TIME
When the SOAK WASH is selected, the total wash time increases because 60 minutes for soak process are added to the time of main process.

PROGRESS

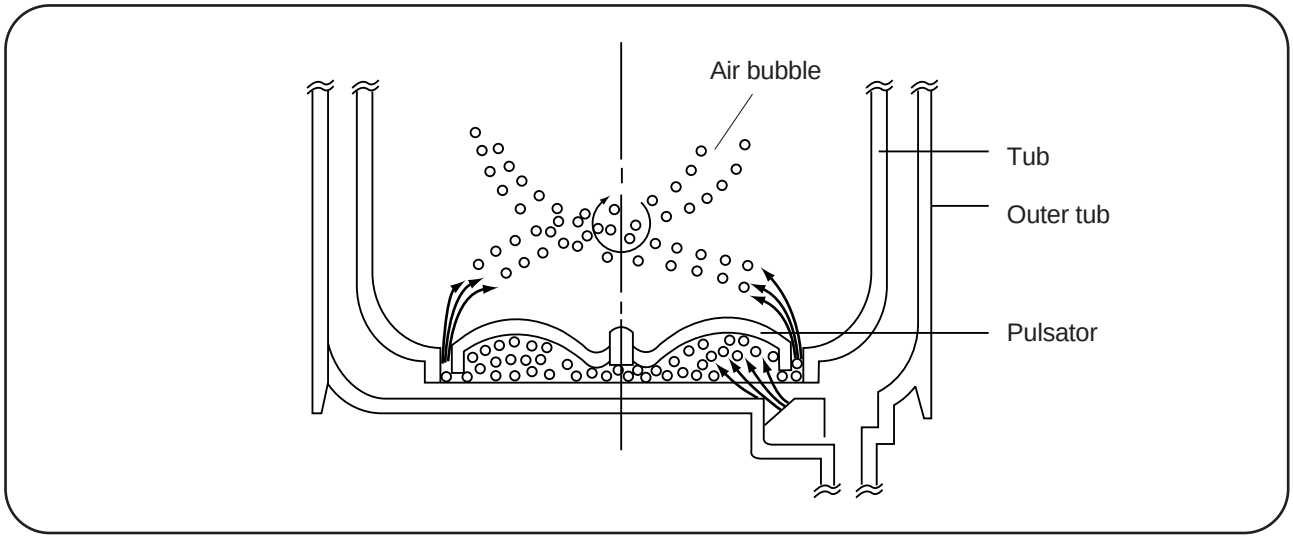
NOTES ‘ | ’ mark indicates the operation of the water currents to adjust the unbalanced load.

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 2 minutes, the operation is interrupted to check the water level, and then the water is supplied again until the selected water level is reached.

FUNCTIONAL PRINCIPLE OF BUBBLE WASHING MACHINE

ACROSS SECTION



FUNCTIONAL PRINCIPLE

Bubble Motor 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.

AUTOMATIC DRAINNING 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	Draining time is prolonged.
	No draining	Program is stopped and gives the alarm.

FUNCTIONAL PRINCIPLE

① The micom can remember the time(D) from the begining of drain to reset point when the pressure switch reaches to “OFF” point

Drain Time	Movement of the Program
Less than 15 minutes	Continue draining.
More than 15 minutes	Program stops and gives the alarm with OE blinked on display lamp.

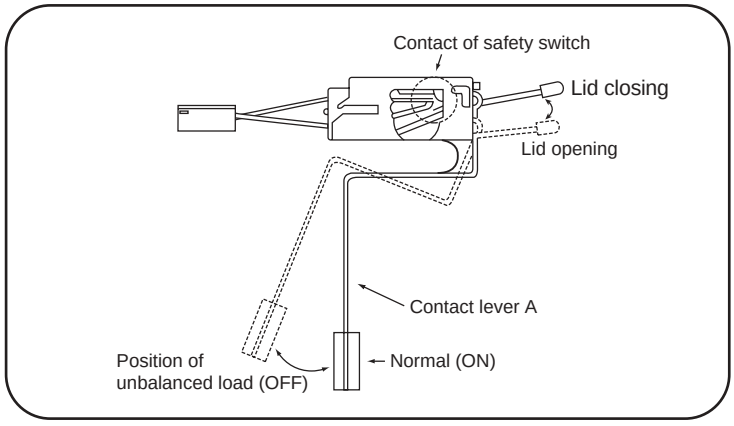
② In case of continuous draining, residual drain time is determined by micom.
Draining time as a whole = D + 90
- 90 : Residual drain time.
- D : The time remembered by micom.

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.



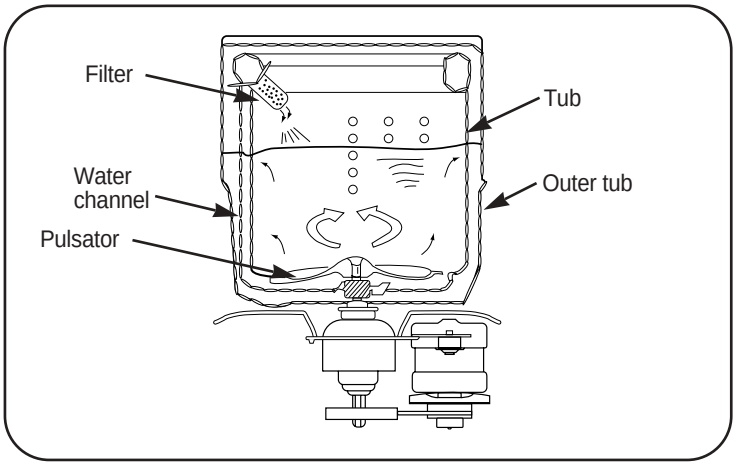
NOTES

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

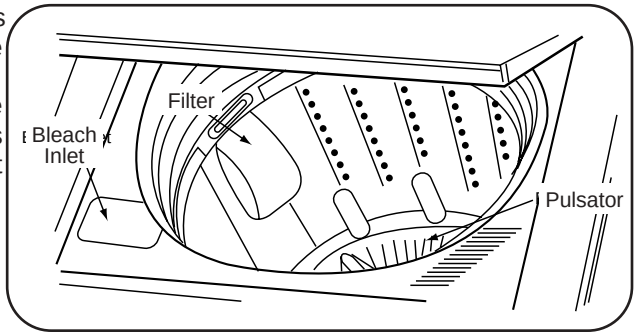
CIRCULATING-WATER

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 fans 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

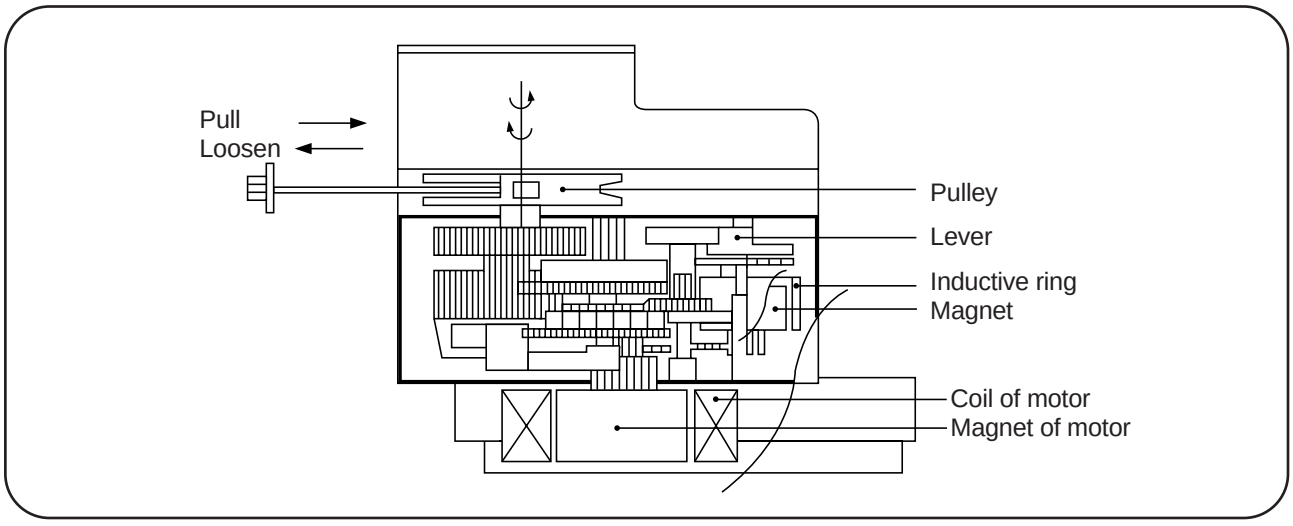
① Pull the filter frame upward.
② Turn the lint filter inside out, and wash the lint off with water.
③ Return the filter as it was, and fix the filter frame to the slot.

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 0 .

DRAIN MOTOR

STRUCTURE

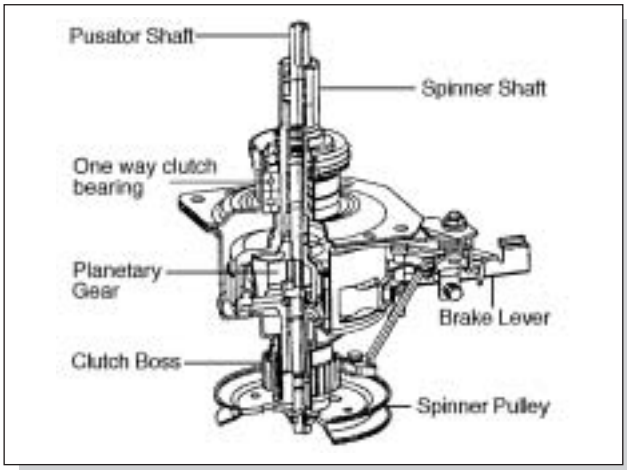


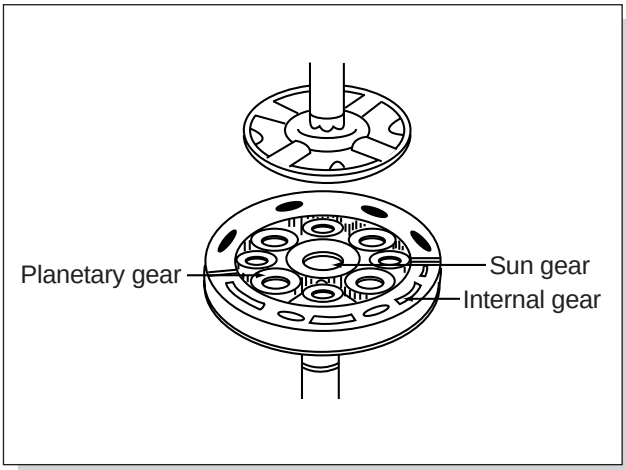
FUNCTIONAL PRINCIPLE

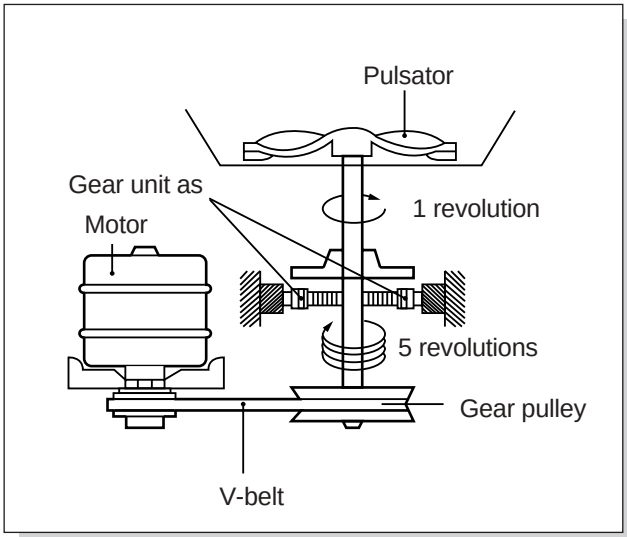
① When the DRAIN MOTOR connected to the power source, the DRAIN MOTOR rotates with 900 r.p.m and revolves the pulley by gear assembly for reducing.
② When the pulley is rotated, the pulley winds the wire to open the drain valve.
③ Therefore, rotation of pulley changed to the linear moving of wire.
④ 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.

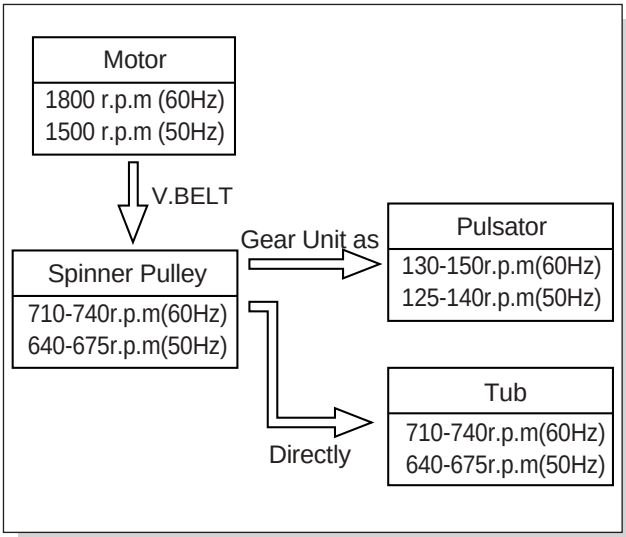
GEAR MECHANISM ASS'Y

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









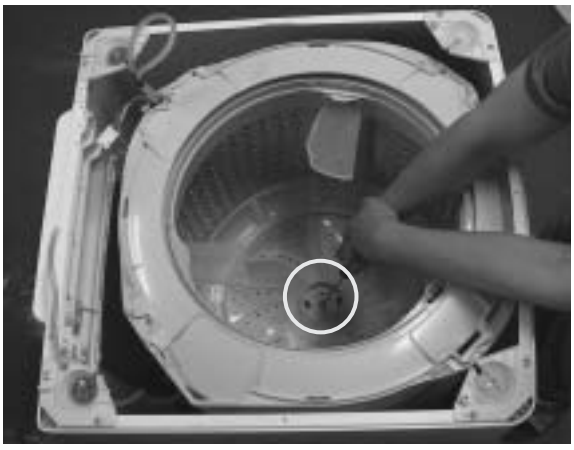
5. DIRECTIONS FOR DISASSEMBLY AND ADJUSTMENT

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

GEAR MECHANISM ASSY REPLACEMENT

① Raise the top plate on the outer cabinet. ② Loosen four screws mounting outer tub cover and remove outer tub cover from the tub ass'y. 	③ Remove the cap pulsator from the pulsator ass'y by using screw driver. 
④ Loosen the pulsator mounting screw and remove the pulsator. 	⑤ Remove the special nut by using "T" type box wrentch. ⑥ Remove the special washer. 

⑦ Remove the tub i assy.

⑧ Lay the top of the washer on the floor.
⑨ Remove four special bolts of gear protect by using a box wrentch and remove gear protect.
⑩ Remove the V-belt.

⑪ Remove four special bolt of gear mechanism assy by using a box wrentch.

⑫ Pull out the gear mechanism ass'y.

NOTES

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

DRAIN MOTOR AND VALVE REPLACEMENT (NON PUMP MODEL)

① Lay the top of the washer on the floor.
② Loosen two special screw of drain motor.

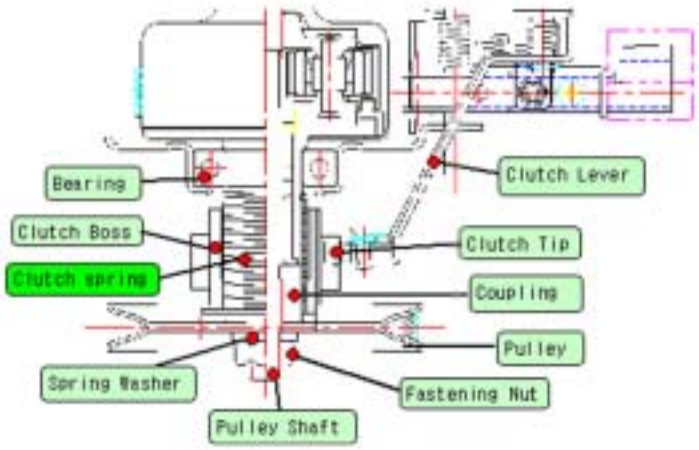
③ Take out the wire of drain motor from the bracket.
④ Separate the drain motor from the base.

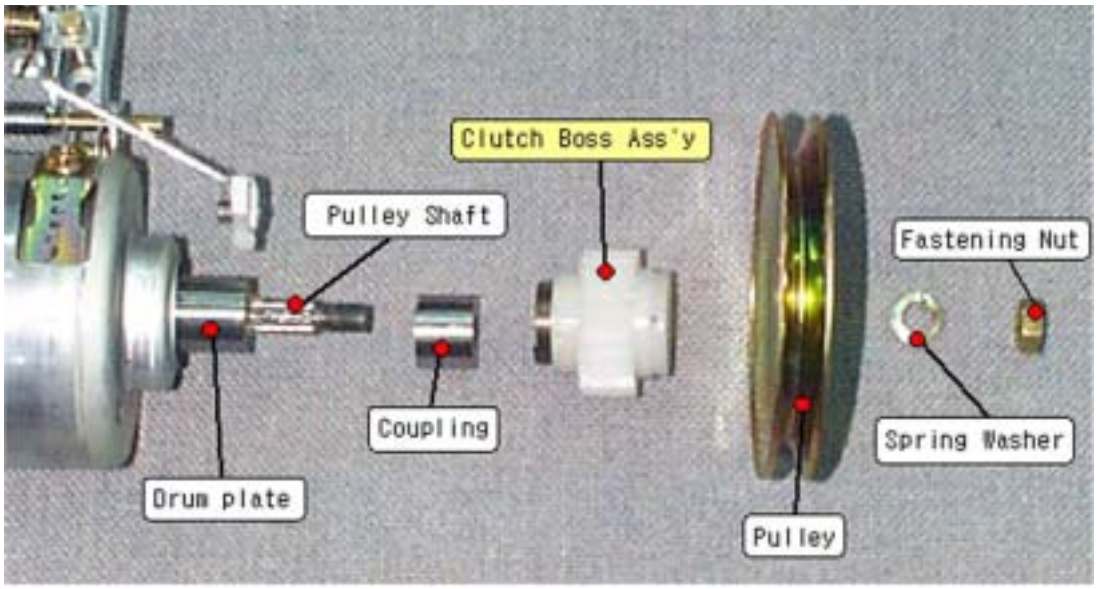
⑤ Turn the valve by using screw driver as shown in picture.

⑥ Remove the valve lid from the valve drain ass'y.

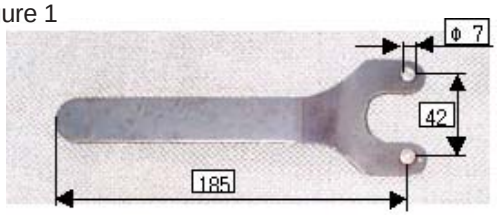
6. THE REPAIR METHOD OF GEAR MECHANISM FOR CLUTCH SPRING PROBLEM

THE STRUCTURE OF GEAR MECHANISM





● **TOOL FOR REPLACING THE CLUTCH BOSS ASSEMBLE** ●

Tool name	Specification	Q'ty
Fixing jig	Figure 1 	1
Ratchet handle		1
Socket and extension bar	socket : 10mm, 17mm	per each
Some cotton yarn		some

HOW TO CHECK THE CLUTCH SPRING PROBLEM

PROBLEM

1) THE LAUNDARY IS IN THE SPIN TUB UNEVENLY WHEN JUST STARTING SPIN PROCESS.

2) THEREFORE, IT CAUSE THE SERIOUS NOISE AND VIBRATION WHEN WASHING AND SPINNING PROCESS OR SUPPLING WATER IRREGULARY WHEN SPINNING PROCESS AND CAUSE SHORT OF SPIN PERFORMANCE.

CHECKING METHOD

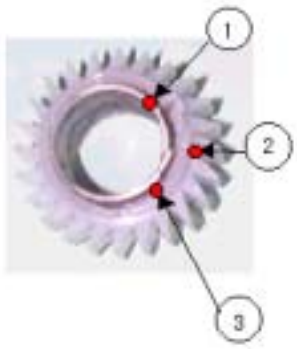
IN THIS CASE, YOU MUST EMPTY THE SPIN TUB FIRST.

1) TO CHECK THE REVOLUTION OF SPIN TUB. IF THE SPIN TUB DOES NOT REVOLVE AND ONLY THE PULSATOR IS TURNING, THAT IS CLUTCH SPRING DEFECT.

2) TO CHECK THE SPIN SPEED(RPM) BETWEEN SPIN TUB AND PULSATOR.
IF YOU FIND THE DIFFERENT SPIN SPEED BETWEEN SPIN TUB AND PUSATOR, THIS IS ALSO CLUTCH SPRING DEFECT.

IN THIS CASE, WE ARE GOING TO SUPPLY THE CLUTCH BOSS ASSEMBLY INSTEAD OF GEAR MECHANISM ASSEMBLEY. PLEASE REFER TO FOLLOWING FIG.

THE CLUTCH BOSS ASSEMBLY

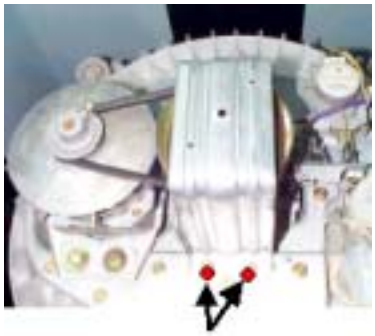
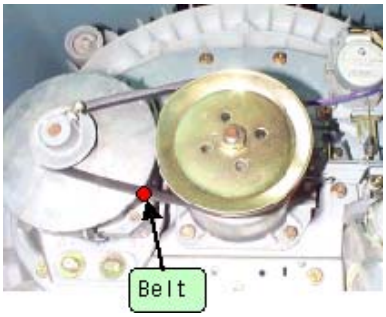
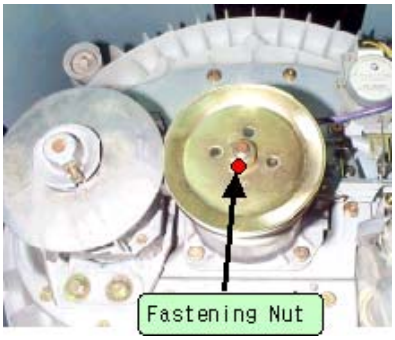


NO.	PARTS NAME	SPECIFICATION	CODE	Q'TY
1	CLUTCH SPRING	1.5*1.5	3615110000	1
2	CLUTCH BOSS	PP	3619301300	1
3	GREASE	beacon#325 3g		
PACKING METHOD	PACKING THE CLUTCH BOSS ASS'Y BY USING VINYL PACK			1

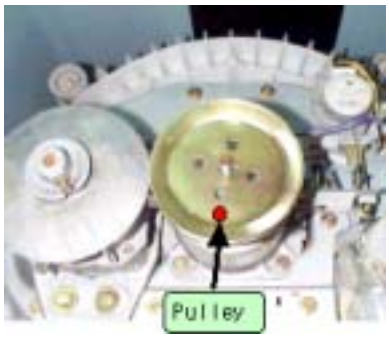
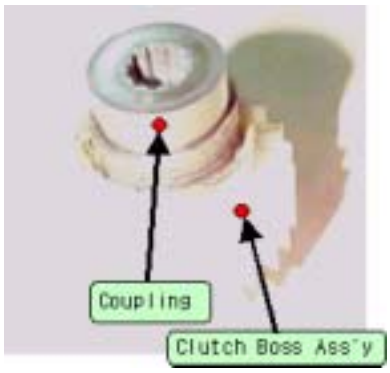
CLUTCH BOSS ASS'Y PART CORD : 3619301400

THE PROCESS OF DISASSEMBLE

Disassemble 1

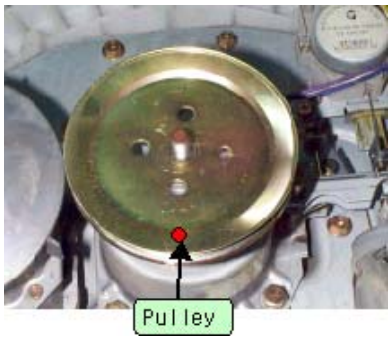
No.	Process		Notice
1	 Release screws marked 4-point	Remove the protector	Use wrench or driver. - ratchet handle - extension bar - socket : 10mm
2		Remove the v-belt	
3		Loosen the fastening nut	Use fixing jig for pulley as to see fig 1. and 17mm-socket for nut.
4		Disassemble the spring washer	Take out plain washer if it has.

Disassemble 2

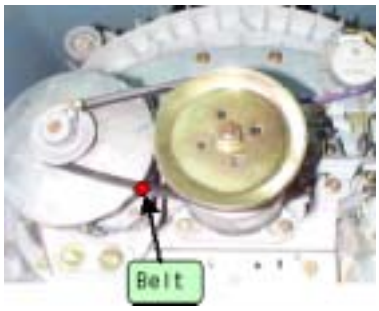
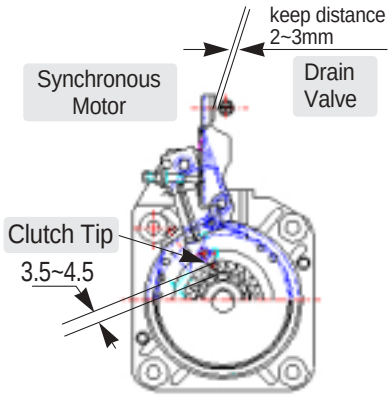
No.	Process		Notice
5		Disassemble the pulley	
6		Disassemble the clutch boss assembly	Catch the boss and pull upward with spiral rotate in the clockwise direction.
7		Separate coupling from clutch boss ass'y	
8		Cleaning	Clean the drum plate, coupling surface and contact face between drum plate and coupling. It is necessary to keep cotton piece goods being dry and clean.

THE PROCESS OF ASSEMBLE

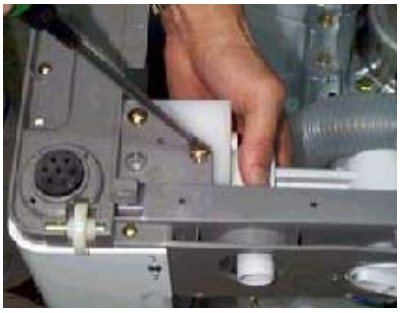
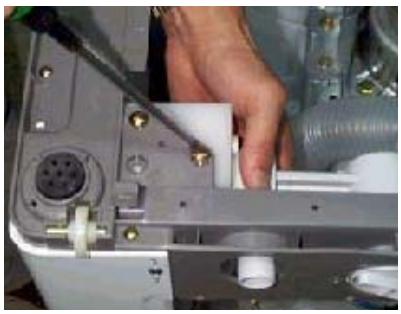
Assemble 1

No.	Process		Notice
1		Assemble the coupling	Check the uneven face of coupling is assembled upward.
2		Assemble the new clutch boss ass'y	- Push in the clutch boss ass'y with rotating on the clockwise direction. - After assembling, rotate on the clockwise more 2~3 teeth and pull out the pulley shaft upward. 
3		Assemble the pulley	
4		Assemble the spring washer	If there was plain washer, you have to assemble plain washer the first and then assemble spring washer.

Assemble 2

No.	Process		Notice
5		Assemble the fastening nut	- Use fixing jig and 17mm socket wrench as if disassembling, as fastening torque about 100~200kgf-cm. - Check the end-play, up and downward and check the binding force, too much or not on bi-direct of rotation. 
6		Assemble the Belt	
7		Assemble the protector	
8		Final checking	Finally, check the distance between brake lever and control bolt(2~3mm). Also, check the interferance depth both clutch tip and clutch boss(3.5~4.5mm).

REPLACE THE CASE FILTER ASS'Y

① Separate the back cover from washing machine.	② Remove two screws.	③ Remove three screws.
		
④ Turn the case filter ass'y and separate it from the drain motor.	⑤ Separate the drain hose i from the case filter ass'y.	⑥ Separate the cavitation hose from the case filter ass'y.
		
⑦ Assemble the case filter ass'y that purchased.	⑧ Tie up three screws.	⑨ Tie up two screws.
		
⑩ Assemble the hose drain I to the case filter with bond & clamp.	⑪ Assemble the cavitation hose to the case filter with bond & clamp.	⑫ Assemble the back cover to the washing machine.
		

7. TROUBLE SHOOTING GUIDE

NOTES

1. When replace the P.C.B. ASS'Y do not scratch the surface of the P.C.B. ASS'Y.
2. Disconnect the power cord from the electric outlet.

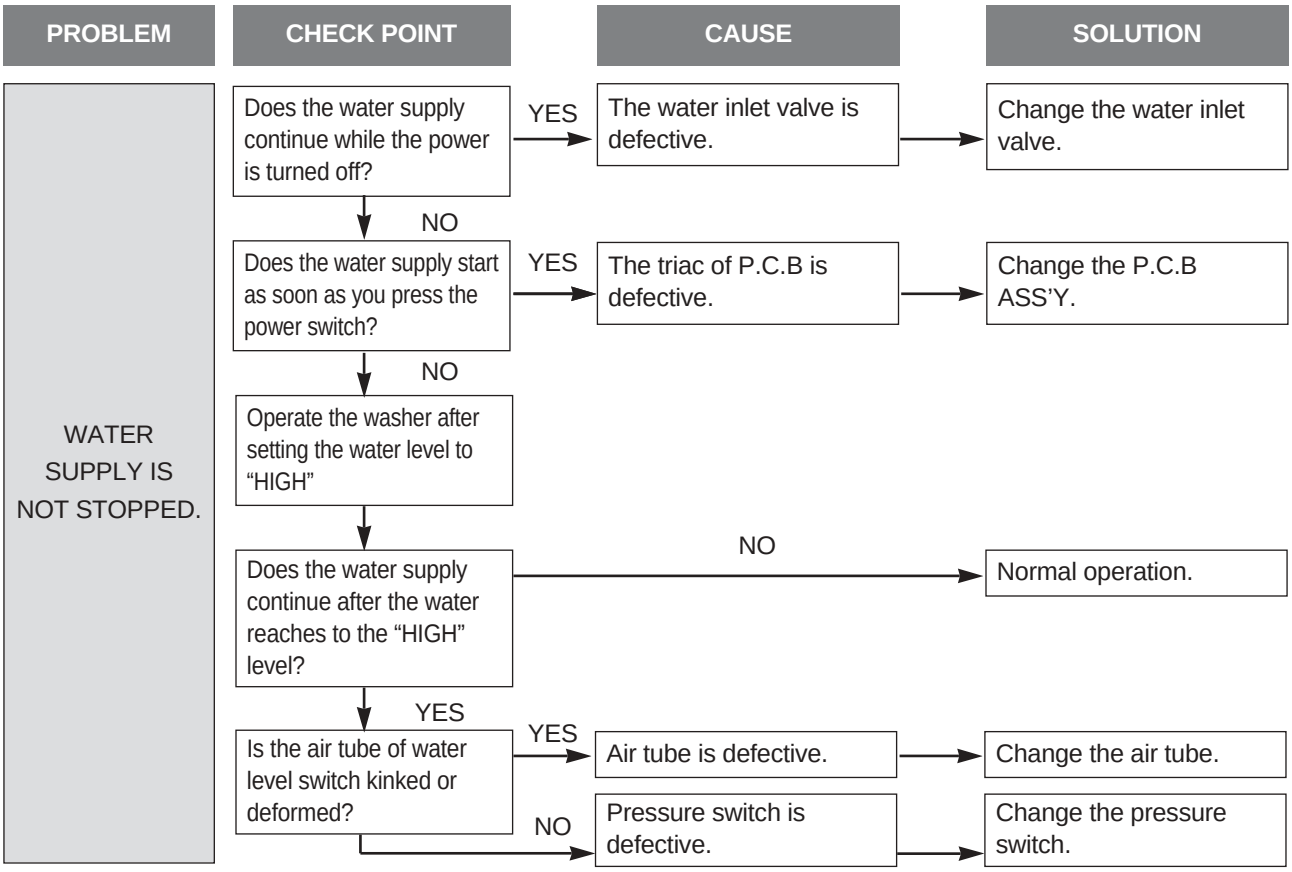
CONCERNING WATER SUPPLY

PROBLEM	CHECK POINT	CAUSE	SOLUTION
WATER IS NOT SUPPLIED.	Do you open the water tap?	NO	Open the water tap.
	Is the filter of the water inlet valve clogged with dirt?	YES	Clean the filter.
	Is the water pressure sufficient? (0.3~8 kgf/cm²)	NO	Increase the water pressure.
	Does the water inlet valve make operating sound?	NO — Water inlet valve is defective.	Change water inlet valve.
	Is the connector or the terminal connected properly?	NO — Improper connection of the connector or the terminal.	Connect the connector or the terminal properly.
	Is the output voltage of the P.C.B normal?	NO — P.C.B AS is defective.	Change the P.C.B AS.
		YES — Lead wire is defective.	Change the lead wires.

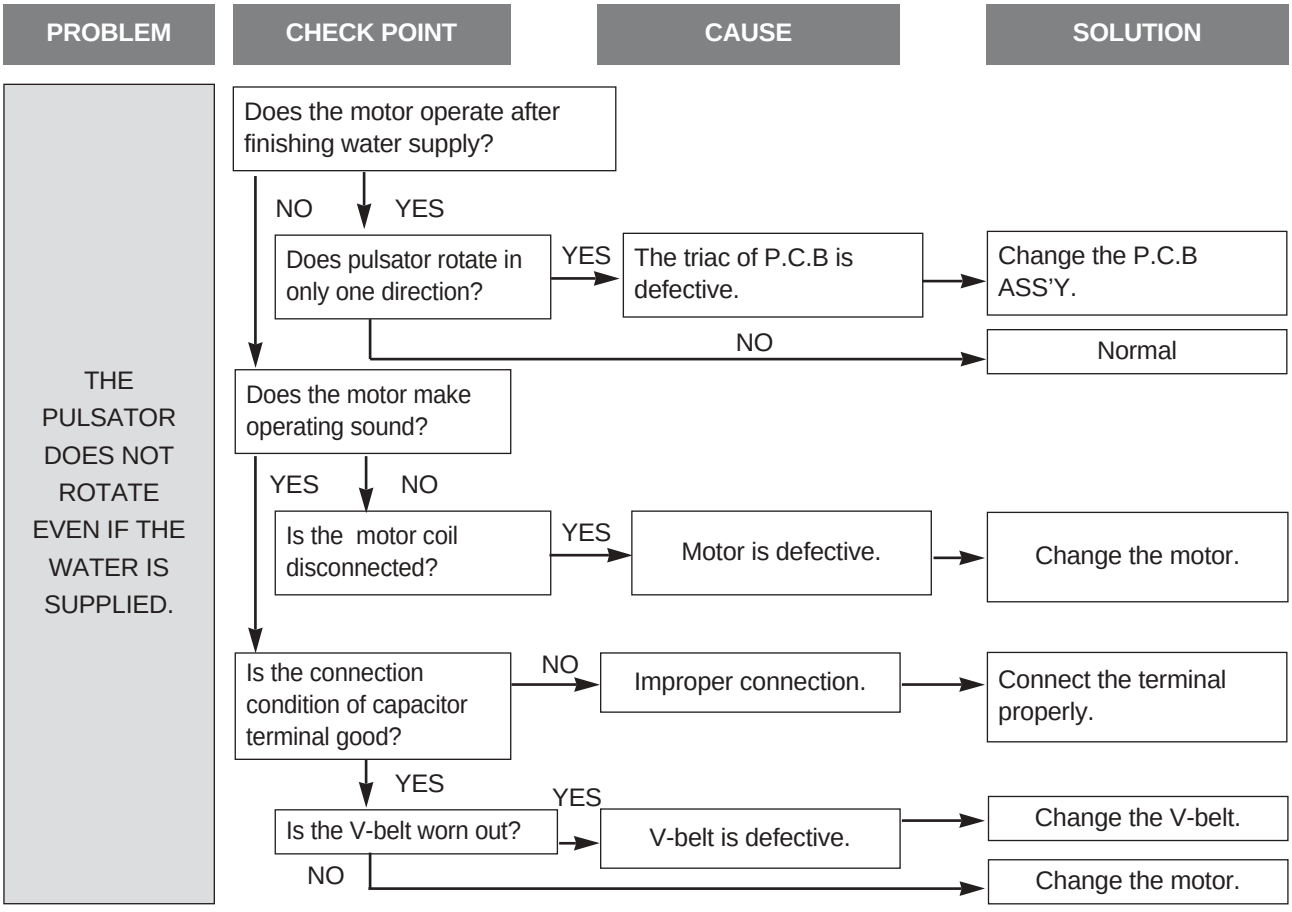
NOTE : Open the water tap fully and measure the flow rate.

Flow rate(ℓ /min.)	11.5	15.0	18.0	20.3	24.1	27.4
Water pressure (kgf/cm²)	0.3	0.4	0.5	0.6	0.8	1.0

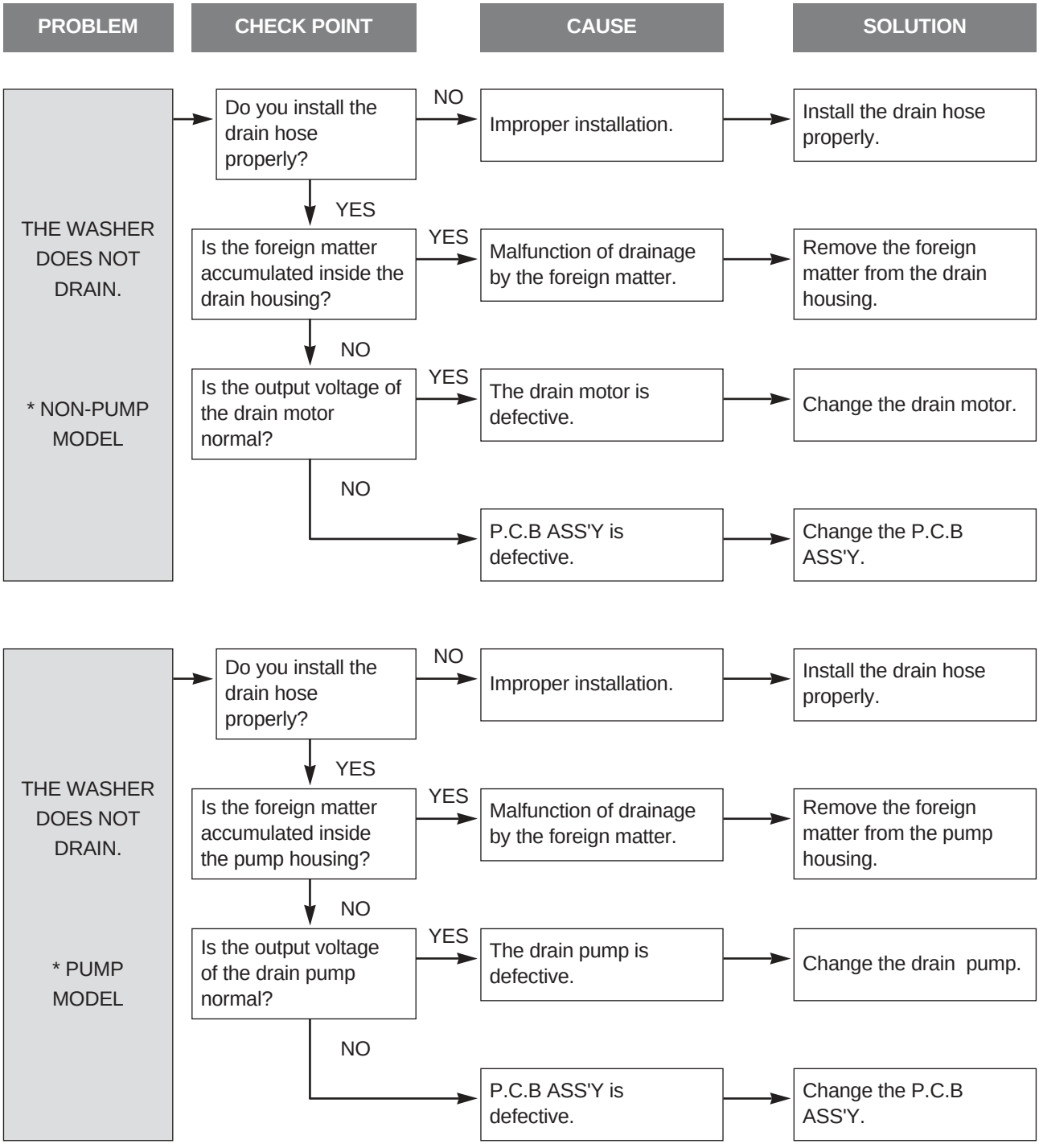
From the upper results, you know that the flow rate more than 11.5 ℓ /min. is essential for water supply.



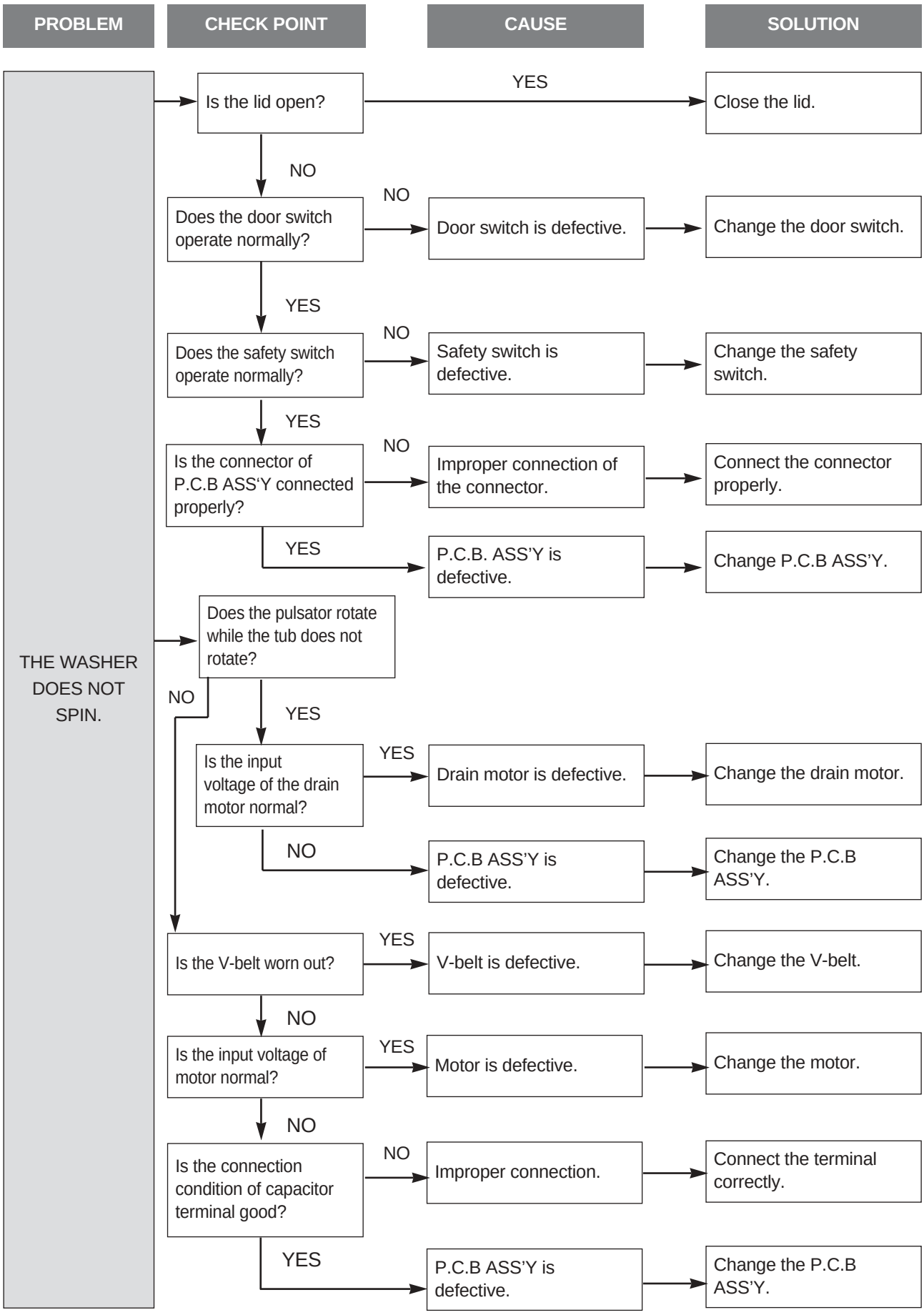
CONCERNING WASHING



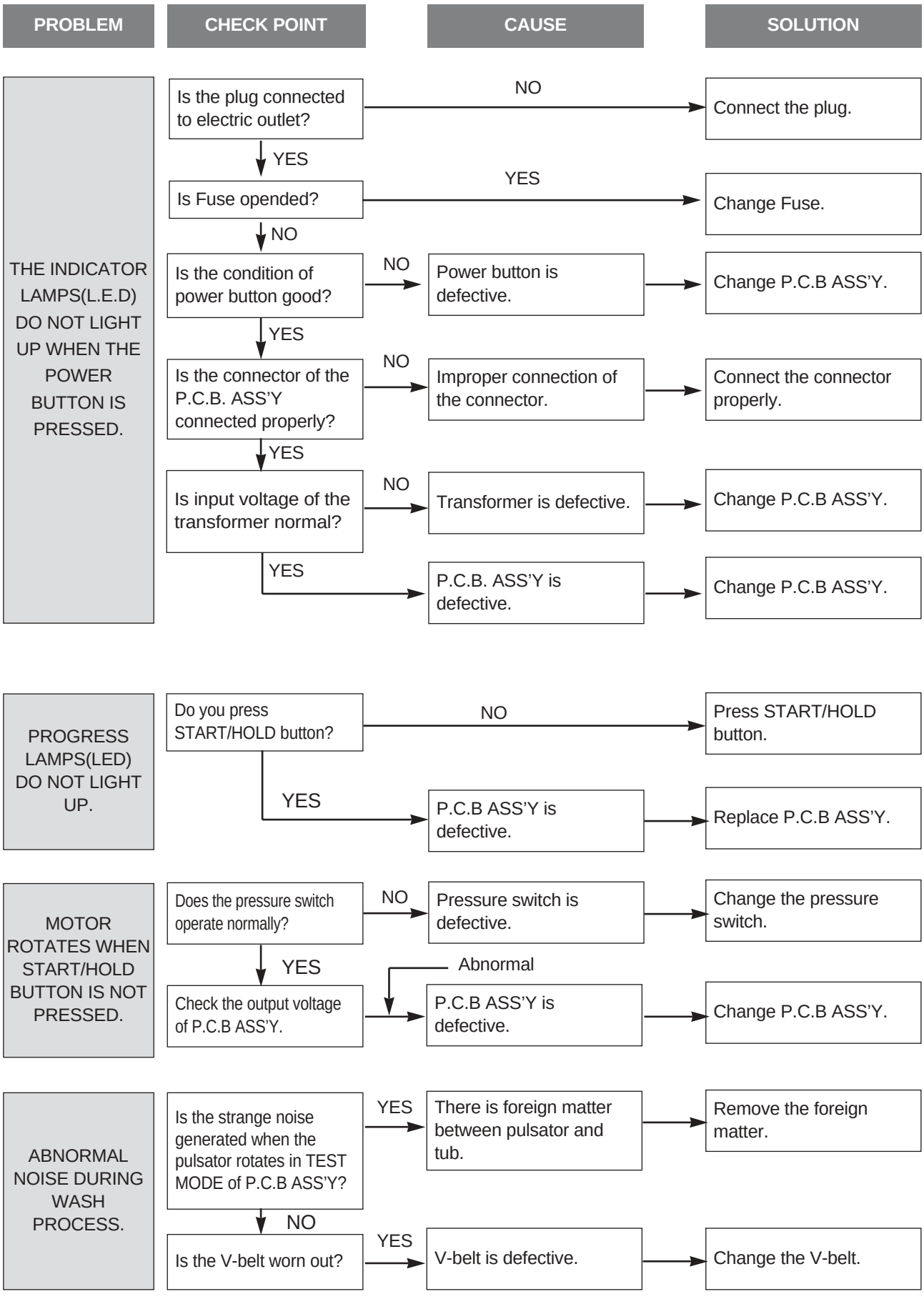
CONCERNING DRAINING



CONCERNING SPINNING



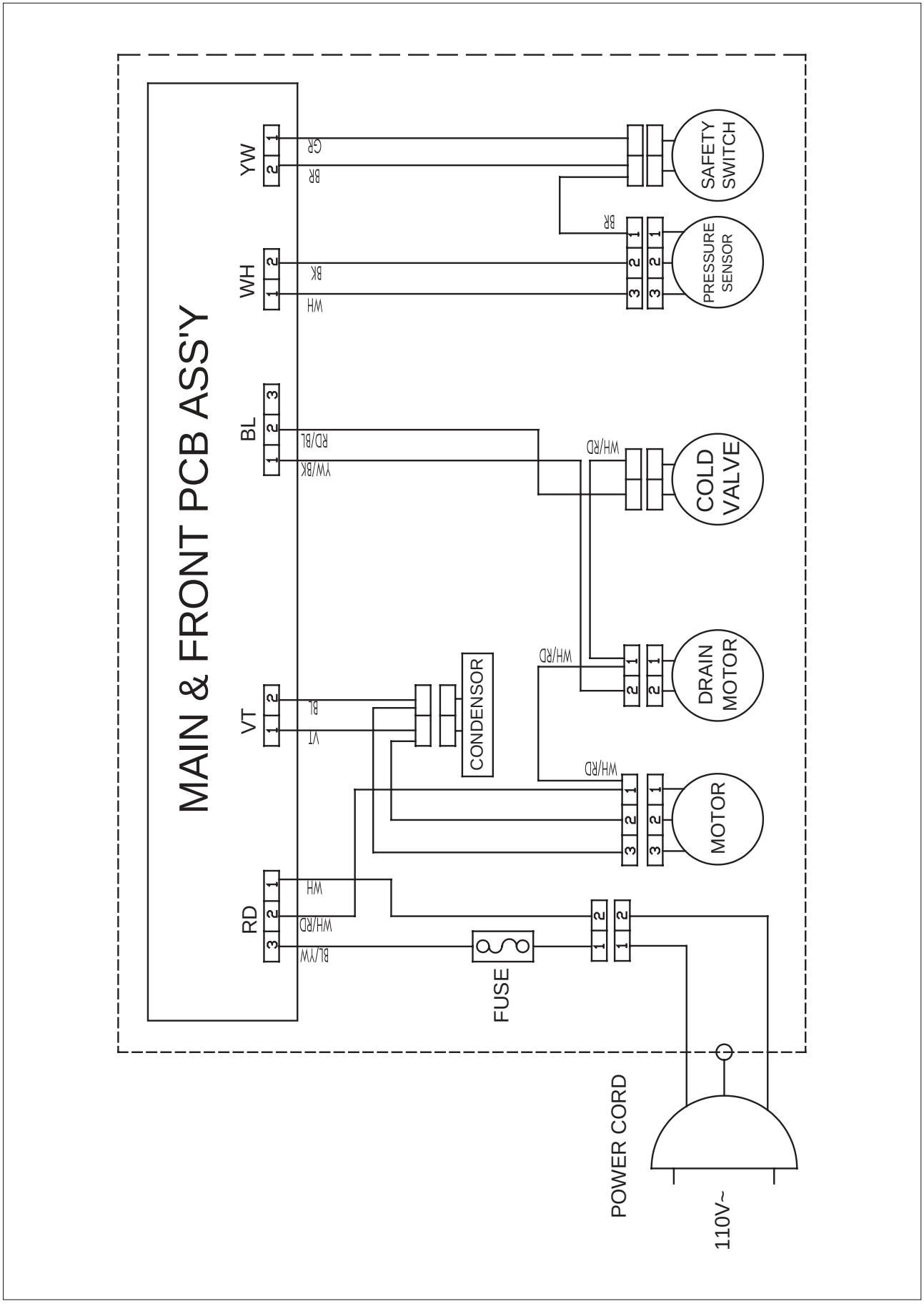
CONCERNING OPERATION



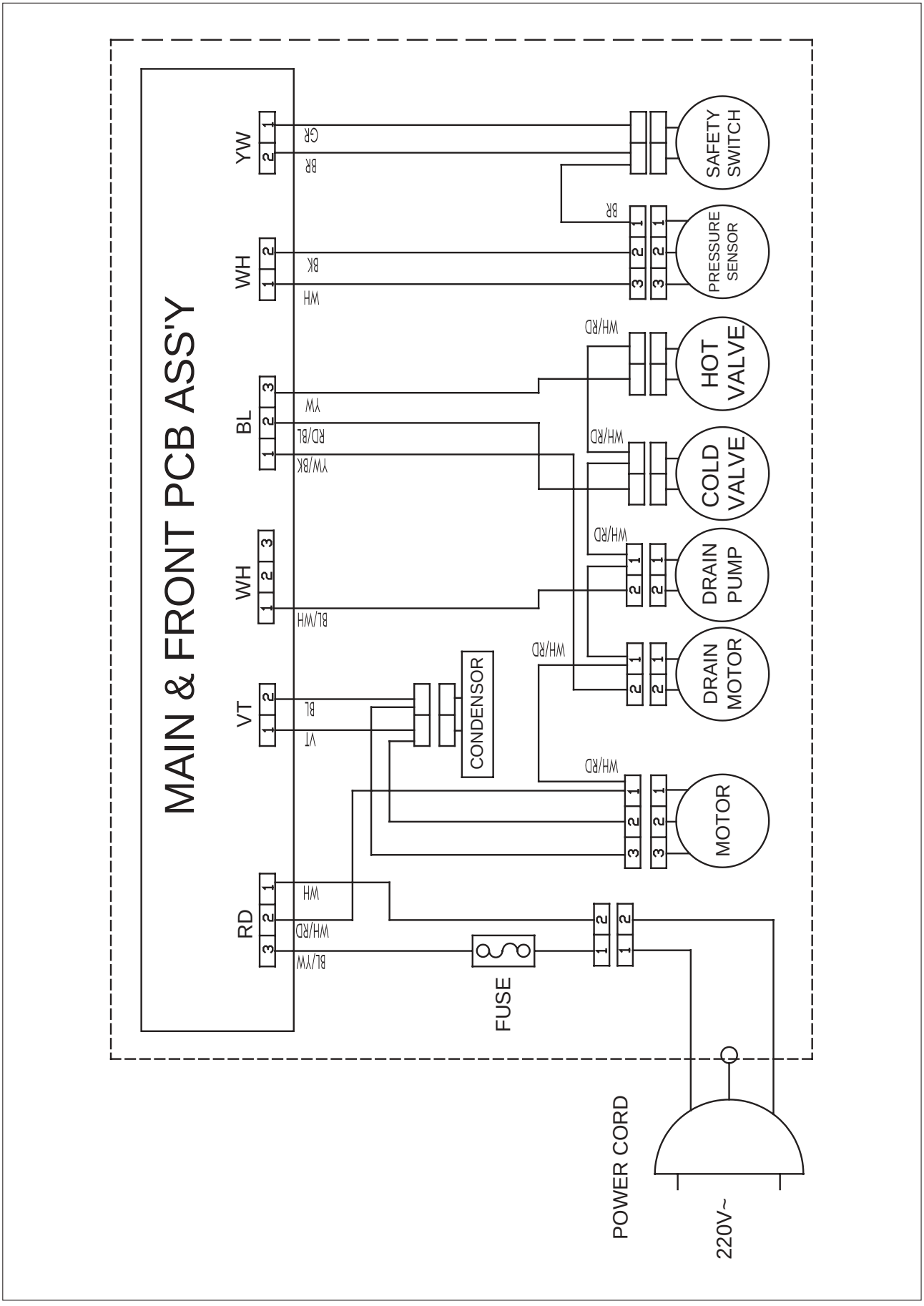
CONCERNING ERROR MESSAGE

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 or drain pump is inferior.	Change drain motor or drain pump.
	The water tap is closed.	Open the water tap.
	The water inlet filter clogged.	Clean the water inlet filter.
	It passes over the 60 minutes, yet it doesn't come to assigned water level.	Check whether or not is 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 0.5 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.

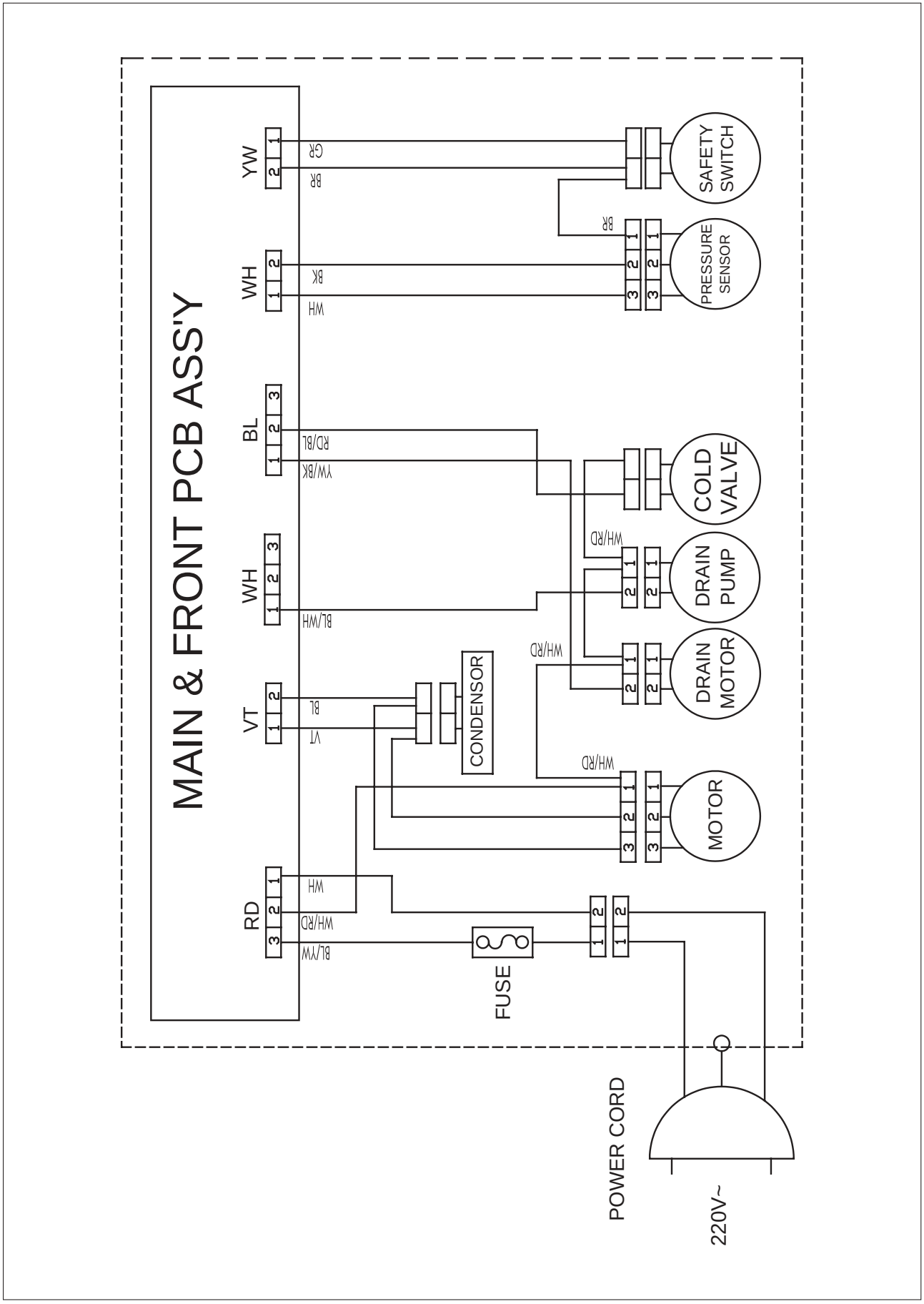
WIRING DIAGRAM (110V~, NON-PUMP, COLD ONLY)



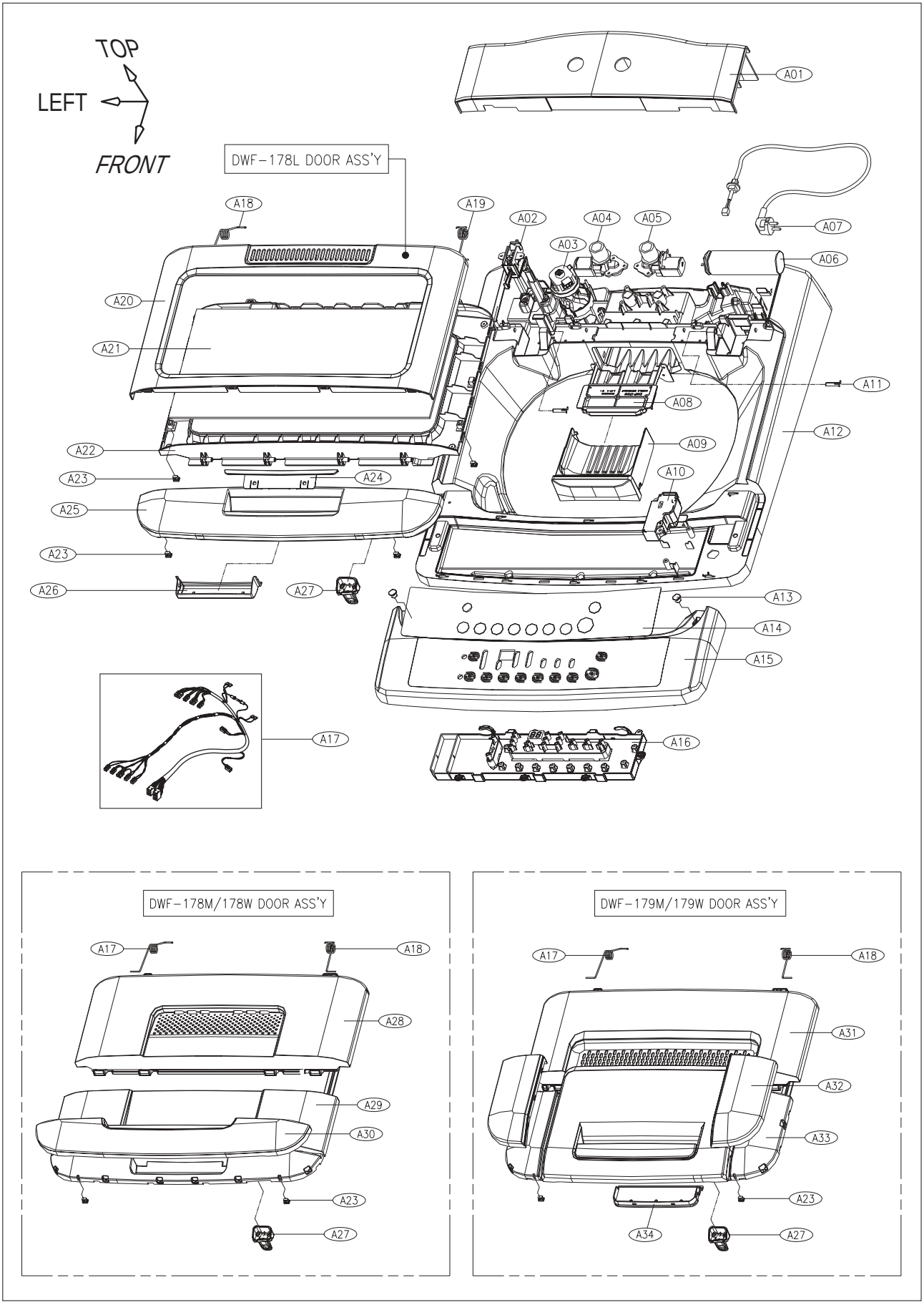
WIRING DIAGRAM (220V~, PUMP, COLD+HOT)

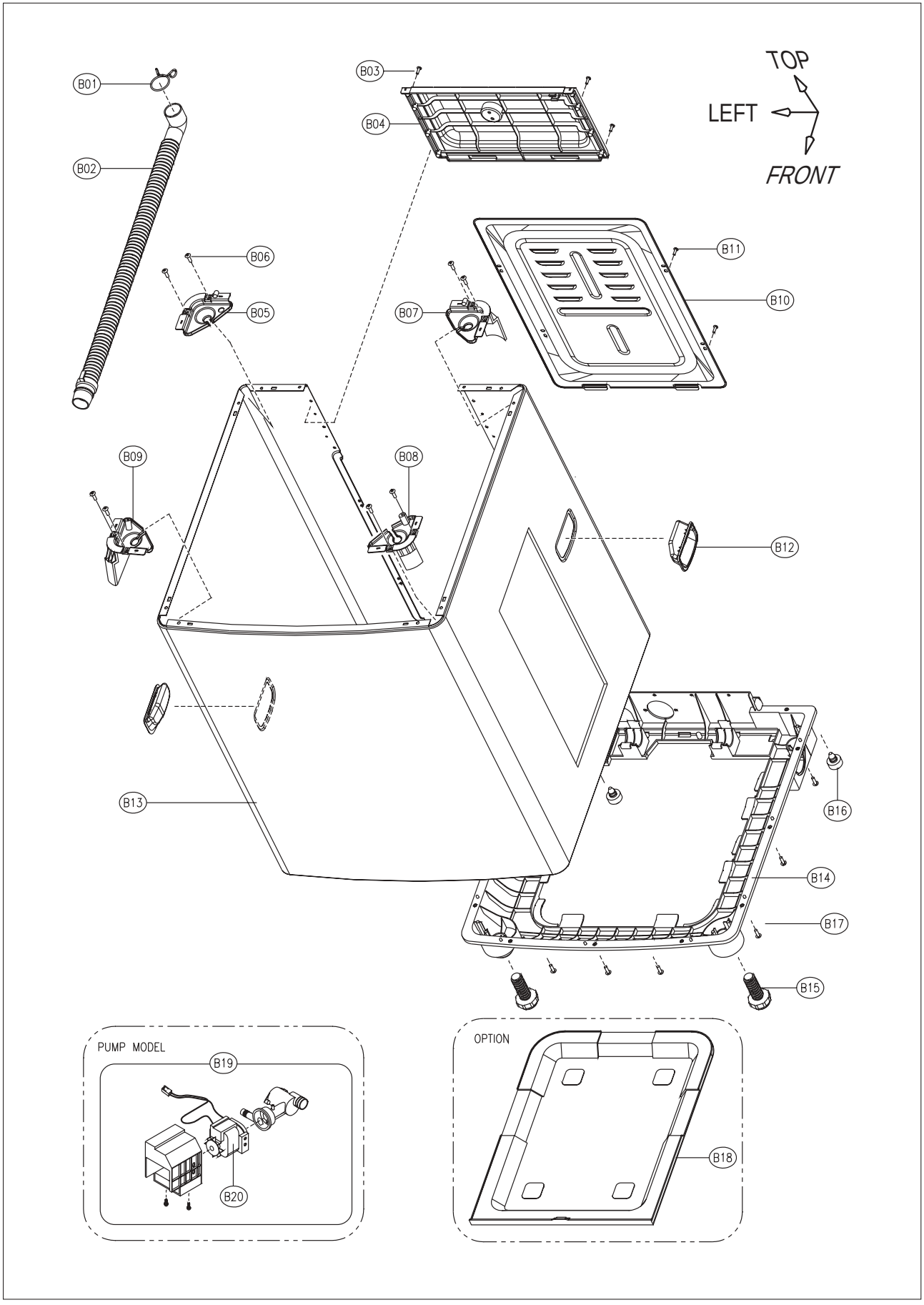


WIRING DIAGRAM (220V~, PUMP, COLD ONLY)



PARTS DIAGRAM




TOP
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B06
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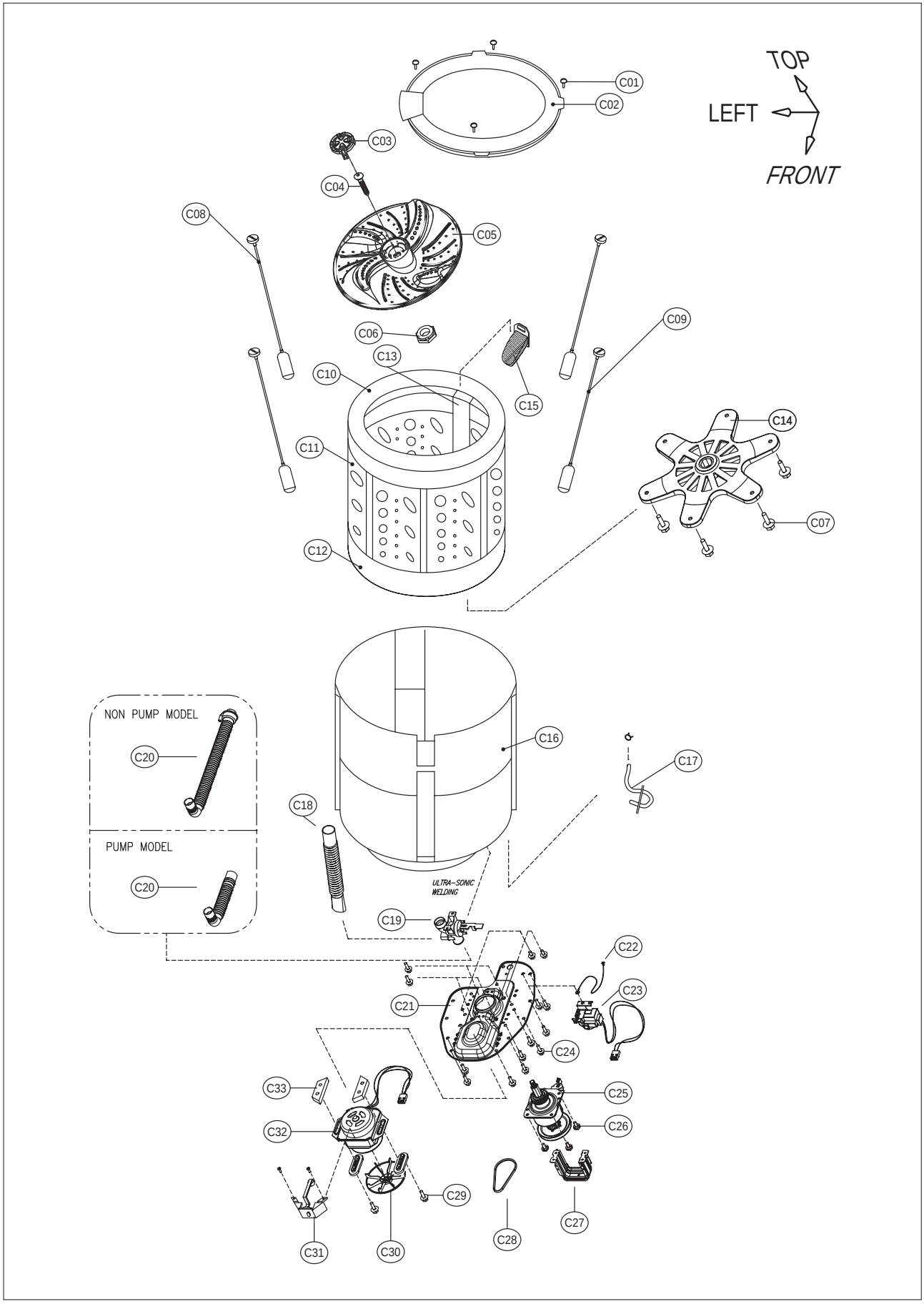
B17
B18
B19
B20
PUMP MODEL
OPTION


TOP
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C19
C20
C21
C22
C23
C24
C25
C26
C27
C28
C29
C30
C31
C32
C33
NON PUMP MODEL
PUMP MODEL
ULTRA-SONIC WELDING

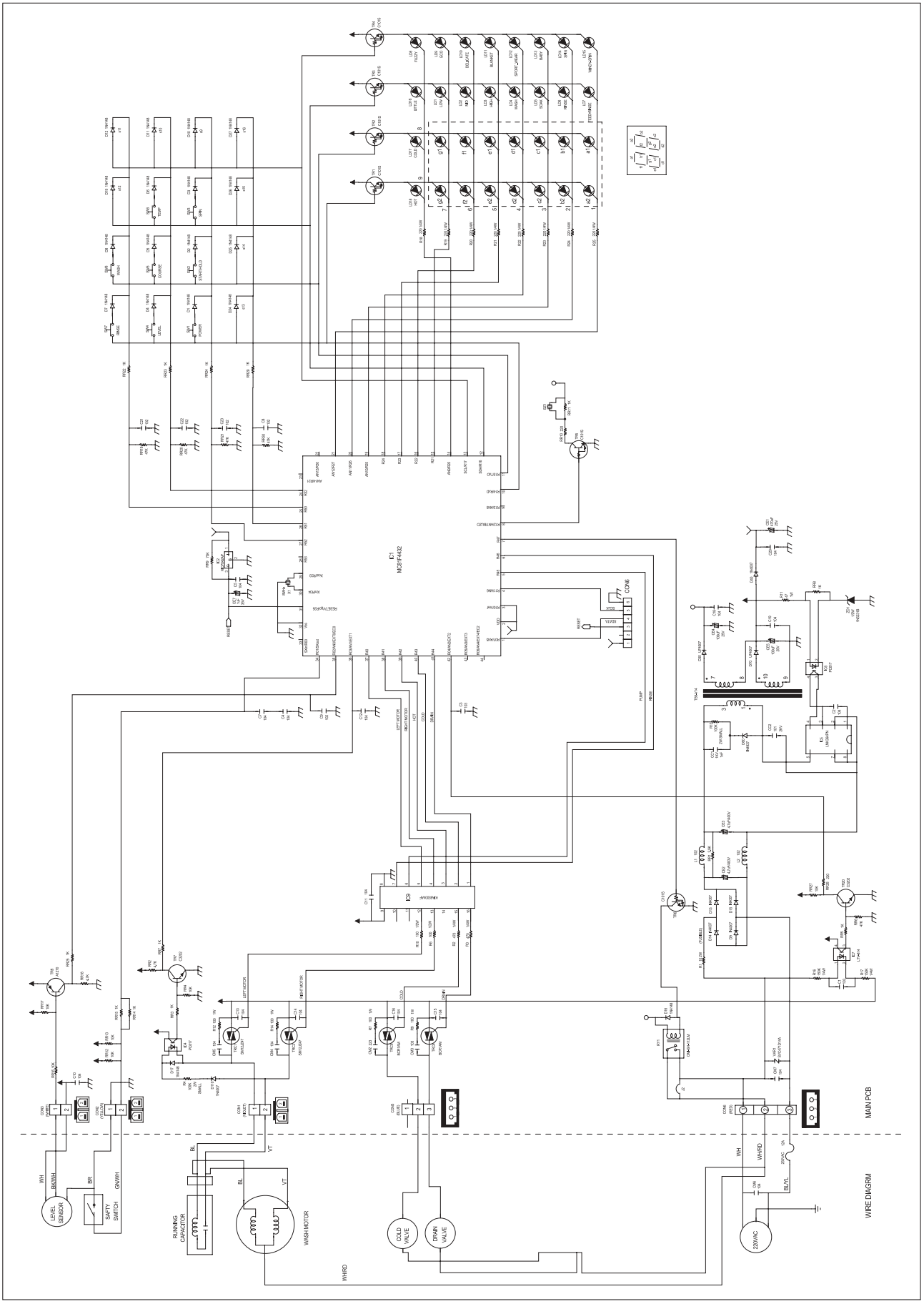
PARTS LIST

No.	PARTS NAME	PARTS CODE	DESCRIPTION	Q'TY	REMARK
A01	PANEL *B	36142T4400	PP(DWF-178L/178M/178W/179M/179W)	1	178L/M/W, 179M/W
A02	SWITCH SAFETY	3619003171	SF-030A3, CU/T=14, #187	1	
A03	SENSOR PRESSURE AS	3614801635	CDL-15N-1,225DO,3PIN,L1=740,L2=90	1	
A04	VALVE INLET (HOT)	3615403811	AC220-240V/50,60HZ,270DEG,HOT,35mA	1	220-240V, HOT(OPTION)
A05	VALVE INLET (COLD)	3615403331	AC110-130V/,60HZ,90DEG,COLD,35mA	1	110-130V, COLD
		3615403731	AC220-240V/50,60HZ,90DEG,COLD,35mA		220-240V, COLD
A06	UNIT CAPACITOR AS	3618929100	54µF 200VAC, CAN TYPE	1	For 110V/60Hz
		3618911300	12.5UF 400VAC, CAN TYPE		For 220V/50Hz
		3618911200	11.4UF 400VAC, CAN TYPE		For 220V/60Hz
A07	CORD POWER AS	3611332810	7A125V0.75SQ VCTFK TAIWAN LP-70 2.3M	1	110/60, TAIWAN
		3611341F00	CHILE. 0.75X3 240H/260H		220/50, CHILE
		3611339040	CP-2PIN 100H IEC 53(VCTF,H05VV-F) 3X0.75 1.9M GY		220/60, PERU
A08	NOZZLE DETERGENT	3618112600	PP(DWF-178L/178M/178W/179M/179W)	1	178L/M/W, 179M/W
A09	CASE DETERGENT	36111T3100	ABS(DWF-178L/178M/178W/179M/179W)	1	178L/M/W, 179M/W
A10	DOOR LOCK SWITCH	3619048900	5A,JAPAN, 60B, 100V	(1)	OPTION(JAPAN)
A11	HINGE DOOR	3612902400	POLYACETAL	2	
A12	PLATE *T	3614543000	PP(DWF-178L/178M/178W/179M/179W)	1	178L/M/W, 179M/W
A13	CAP SCREW	3610902600	CR	2	
A14	DECORATOR FILM	36116DWC00	PC FILM , 178W	1	DESIGN OPTION
A15	PANEL *F	36142T4500	ABS(DWF-178L/178M/178W/179M/179W)	1	178L/M/W, 179M/W
A16	PCB AS	PRPSSWXC61	DWF-178L, SMALL PCB, TAIWAN	1	110/60, TAIWAN
		PRPSSWXC64	DWF-178L, LARGE PCB, CHILE & PERU		220/50-60, CHILE&PERU
		PRPSSWXC69	DWF-178L, LARGE PCB, PANAMA		220/50-60, PANAMA
A17	HARNESS AS	3612797A30	DWF-178W 110V COLD (NON -PUMP)	1	110V/NON-PUMP/COLD
		3612797A40	DWF-178W 220V COLD,HOT (PUMP)		220V/PUMP/C&H
		3612797A70	DWF-178W 220V COLD(PUMP)		220V/PUMP/COLD
A18	SPRING DOOR L	3615118800	DWF-178	1	178L/M/W, 179M/W
A19	SPRING DOOR R	3615118801	DWF-178	1	178L/M/W, 179M/W
A20	DOOR BACK *O	36117ADT00	DWF-178L, ABS	1	178L(MOLD)
		36117ADT10	ABS DECORATOR SPRAY, 178L		178L(SPRAY)
A21	DOOR GLASS	36117AE000	GLASS,178L,470X217X4.0T	1	OPTION(178L)
		36117AE010	GLASS,178L,470X217X4.0T,NAZCA		OPTION(178L, PERU)
		36117AE020	GLASS,178L,470X217X4.0T,PATTERN,CHILE		OPTION(178L, CHILE)
A22	DOOR BACK *I	36117ADU00	ABS, 178L	1	178L
A23	CUSHION DOOR	3611559900	NR	4	178L
				2	178M/W, 179M/W
A24	DECO HANDLE	36116DW600	ABS, 178L	1	178L(MOLD)
		36116DW610	ABS VACUUM-METALIZED, 178L		178L(VACUUMMETALLIZE)
A25	DOOR *F	36117ADV00	ABS, 178L	1	178L(MOLD)
		36117ADV10	ABS DECORATOR SPRAY, 178L		178L(SPRAY)
A26	CAP HANDLE	3610920400	ABS, 178L	1	178L

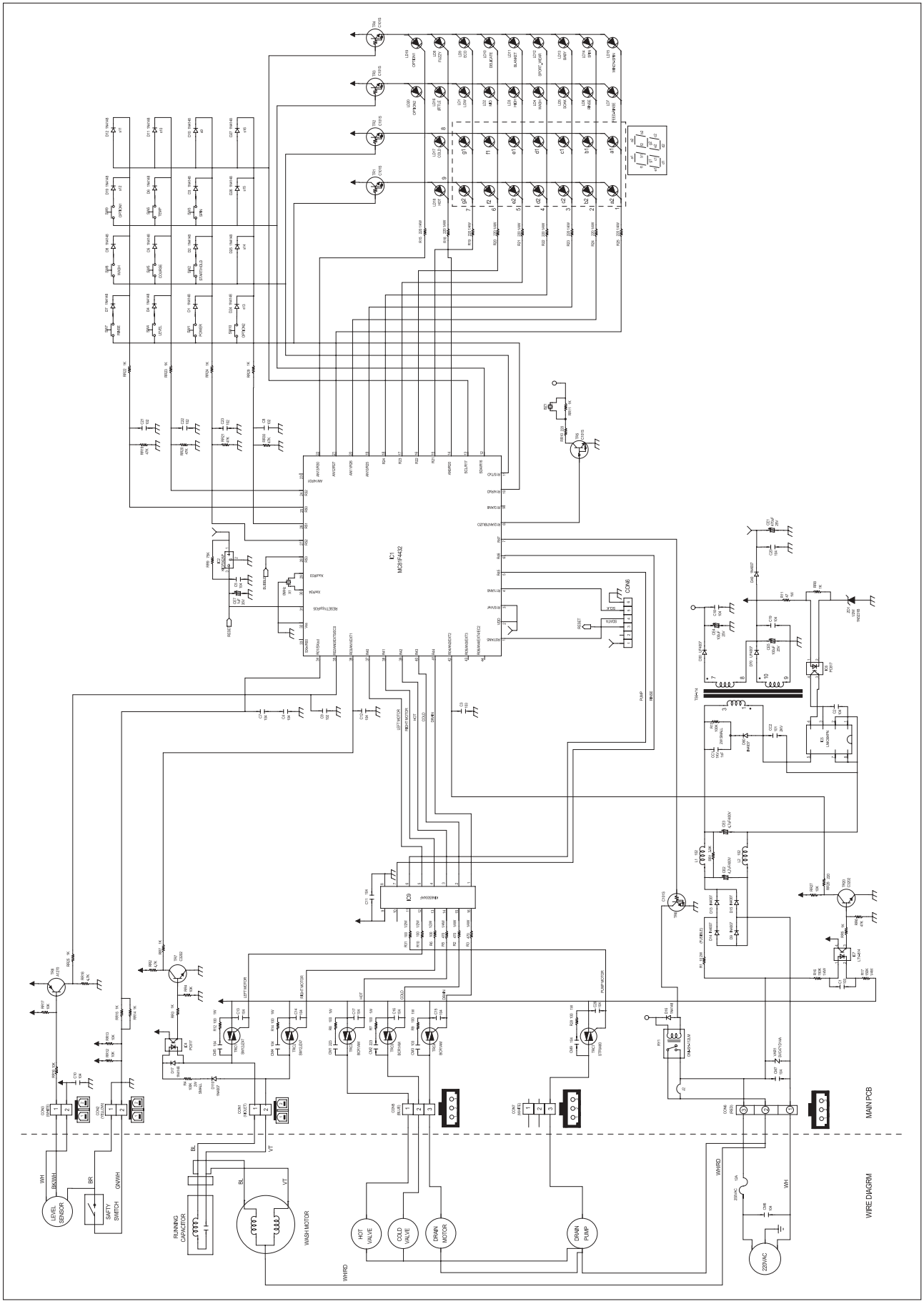
No.	PARTS NAME	PARTS CODE	DESCRIPTION	Q'TY	REMARK
A27	HOOK DOOR	3613101800	ABS, DWF-178	(1)	OPTION(JAPAN)
A28	DOOR *B	361A114200	ABS, 178M/178W	1	178M/178W
A29	DOOR *F	361A114300	ABS, 178M(OPAQUE)	1	178M(OPTION)
			ABS, 178W(TRANSPARENT)		178W(OPTION)
A30	COVER DOOR F	3611432900	ABS, 178M/178W	1	178M/178W
A31	DOOR *B	36117ADR00	ABS, 179M/179W	1	179M/179W
A32	COVER DOOR F	3611433000	ABS, 179M/179W	1	179M/179W
A33	DOOR *F	36117ADS00	ABS, 179M(OPAQUE)	1	179M(OPTION)
			ABS, 179W(TRANSPARENT)		179W(OPTION)
A34	CAP HANDLE	3610920300	ABS, 179M/179W	1	179M/179W
B01	CLAMP	4501F06120	SWPA2 ZN8-C D34	1	NON-PUMP
		3611202200	HSW3 PE-LD		PUMP
B02	HOSE DRAIN OUTER AS	3613226600	L=950MM, HANGER	1	NON-PUMP
		3613218800	LD-PE/EVA L=1600 PUMP		PUMP
B03	SCREW TAPPING	7122401411	T2S TRS 4X14 MFZN	4	
B04	PLATE UPPER	3614514600	PP, 1094	1	
B05	SUPPORTER TUB BL	3615302931	FRPP(5203G6)	1	
B06	SCREW TAPPING	7122401411	T2S TRS 4X14 MFZN	8	
B07	SUPPORTER TUB BR	3615302921	FRPP(5203G6)	1	
B08	SUPPORTER TUB FR	3615302901	FRPP(5203G6)	1	
B09	SUPPORTER TUB FL	3615302911	FRPP(5203G6)	1	
B10	COVER *B	3611414010	372*508*0.4T, SGCC	1	
B11	SCREW TAPPING	7112401011	T1 TRS 4*10 MFZN	4	
B12	HANDLE CABINET	3612603300	PP	2	
B13	CABINET SUB AS	3610809501	PAINTING (0.6)	1	
B14	BASE *U	3610388300	PP	1	
B15	LEG ADJUST AS	3617702123	BUTYL FOOT, CONE SHAPE	2	
B16	FOOT	3612100330	BUTYL VE(SMALL)	2	
B17	SCREW TAPPING	7122401411	T2S TRS 4X14 MFZN	11	
B18	COVER UNDER	3611402715	1094 PP VIRGIN:RECYCLE=50:50	(1)	OPTION
B19	UNIT DRAIN PUMP AS	361897409D	220V 60HZ,40W,#1806 D/L,L/W=1410	1	220/60
		36189L606D	230~240V/50HZ,L=1400,1806 D/L		230-240/50
B20	UNIT DRAIN PUMP	36189L1400	220V/60HZ,CU 40W,L=1400,BB CUT,B30-5	1	220/60
		36189M1400	220~240V,CU 40W,L=1400,BB CUT,B30-6		230-240/50

No.	PARTS NAME	PARTS CODE	DESCRIPTION	Q'TY	REMARK
C01	SCREW TAPPING	7122401611	T2S TRS 4X16 MFZN	4	
C02	COVER TUB *O	3611408500	PP	1	
C03	CAP PULSATOR	3610920500	PP, DWF-178W	1	178L/M/W, 179M/W
C04	SPECIAL SCREW	3616062629	STS430 6X26.5	1	
C05	PULSATOR AS	3619705804	DWF-178W, NANO SILVER	1	178L/M/W, 179M/W
C06	SPECIAL NUT	4507D83080	SUS 304	1	
C07	SPECIAL SCREW	3616007001	SCM24H,6.5*24 101S	6	
C08	SUSPENSION AS (B)	3619805700	BLACK SPRING,111	2	
C09	SUSPENSION AS (F)	3619805600	YELLOW SPRING,120	2	
C10	BALANCER AS	3616105500	850M	1	
C11	TUB *I	3618830700	SUS 0.4T, ONE PIECE, 170M	1	
C12	TUB *U	3618816101	PP-M/B	1	OPTION
		3618816113	PP 1620G		
C13	GUIDE FILTER AS	3612508300	850M,GUIDE-A(MEXICO)	2	
		3612508400	850M,GUIDE-B(MEXICO)	1	
C14	FLANGE TUB	3617200600	ALDC12 VE1,6POINT	1	
C15	FILTER AS	4505E82002	P.E(POLYESTER 90X120)INSE	2	
C16	TUB *O	3618802630	PP JI-370(8KG)	1	
C17	HOSE	4500D08210	ID=4.0 KOR	1	
C18	HOSE OVERFLOW	3613208901	PELD, L=280mm	1	NON-PUMP
C19	VALVE DRAIN AS	3615408400	1098,s VE TYPE	1	ONLY NON-PUMP
C20	HOSE DRAIN INNER AS	3613218510	LDPE+EVA L=210.5	1	NON-PUMP
	HOSE DRAIN *I	3613212120	EVA,L=184		PUMP
C21	BASE	3610387400	SECEN 2.0T	1	
C22	HARNESS EARTH INNER	3612757010	L=560MM	1	
C23	DRAIN MOTOR	36196TAN30	SV-HJ7T22D 100-110 50/60HZ	1	100-110/50-60
		36196TAN00	SV-MX7T22D 220V50/60HZ		220/50-60
C24	SPECIAL SCREW	3616007001	SCM24H,6.5*24 101S	16	
C25	GEAR MECHANISM	3617310400	GM-1000-YJ6P2	1	
C26	BOLT HEX	7341801511	6B-1 8*15 MFZN	4	
C27	PROTECTOR GEAR	3618301310	SBHG 1.2T	1	
C28	BELT V	3616590220	M20.5 AGING	1	60Hz
		3616590230	M21, AGING		50Hz
C29	BOLT HEX	7650802528	6B-1 8*25 PW(3*28) MFZN	2	
C30	PULLEY MOTOR AS	3618401400	M-TYPE(AL), DS=10 DP=48.5 60HZ	1	60Hz
		3618401420	M-TYPE(AL) DS=10 DP=53.0 50HZ		50Hz
C31	BODY BUBBLE AS	3610402931	104KR, HOSE L=2700MM	1	OPTION
C32	MOTOR CONDENSER	3964322---		1	110/60
		3964322100	W2D50VA014 220V50HZ 1350L KET		220/50
		3964322200	W2D50UA019 220V60HZ 1350L KET		220/60
C33	CUSHION DOWN	3611502700	POM(8MM)	2	

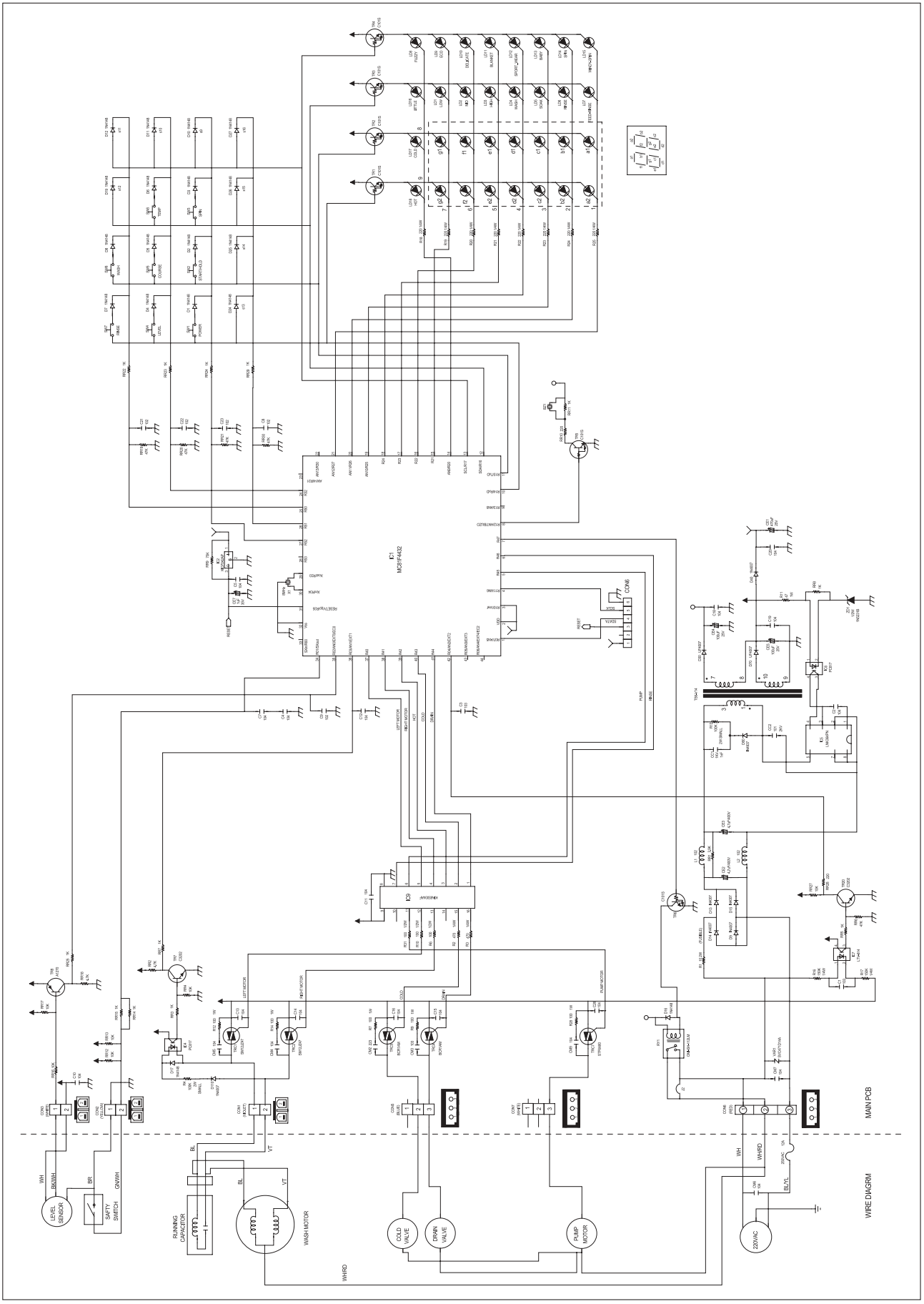
CIRCUIT DIAGRAM (110V~, NON-PUMP, COLD ONLY)



CIRCUIT DIAGRAM (220V~, PUMP, COLD+HOT)



CIRCUIT DIAGRAM (220V~, PUMP, COLD ONLY)



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MODEL	DWF-178L, DWF-178M/178W
	DWF-179M/179W (S/M)
접 수	2011.10.04
MEMO	총 41p

11.10.04-전체신규 41p
11.10.05-1p, 2p, 9p, 24p, 28p, 29p, 30p, 31p, 32p, 33p, 34p, 36p
수정_ 신규 12p
11.10.10-2p, 3p, 34p 수정_ 신규 3p

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