



WASHING MACHINE

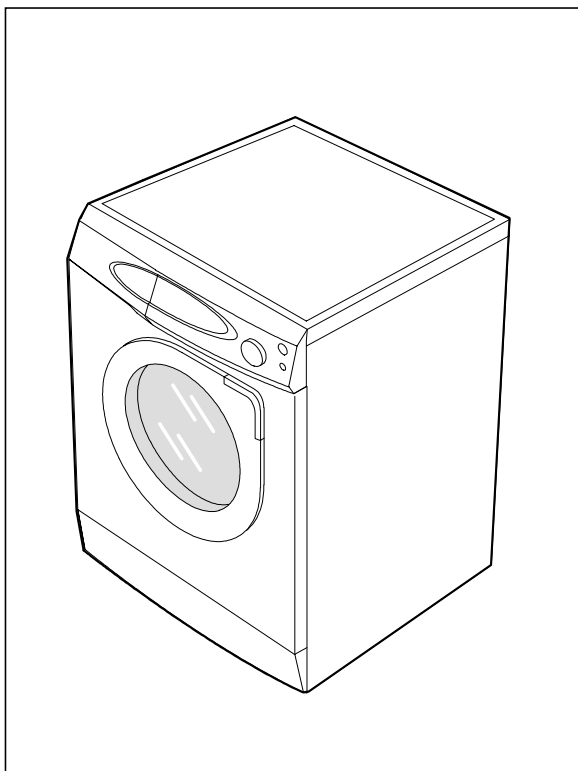
P8091GW/YLP

P1091GW/YLP

P1291GW/YLP

SERVICE Manual

WASHING MACHINE



CONTENTS

 Caution for safety during servicing

1. SPECIFICATIONS
2. OVERVIEW OF THE WASHING MACHINE
3. OVERVIEW OF THE CONTROL PANEL
4. GENERAL ERROR FUNCTION
5. TROUBLE DIAGNOSIS
6. TEST MODE
7. DESIGNATION OF MAIN COMPONENTS
8. PCB SCHEMATIC DIAGRAM
PCB CIRCUIT DIAGRAM
9. ASSEMBLE AND DISASSEMBLE
10. TOOLS FOR DISASSEMBLY AND ASSEMBLY
11. EXPLODED VIEW AND PARTS LIST



Caution for safety during servicing

1. Do not allow the customer to repair the product.

The person may be injured or the product life may be shortened..

2. Execute A/S after unplugging the power supply unit.

Be careful of electric shocks.

3. Do not plug several plugs in the same outlet.

It may cause the fire due to overheat.

4. Check for damage, pressing or burning of the power plug or outlet.

Replace it promptly if it has a problem.(It may cause electric shocks or fire)

5. Do not clean the main body with water.

It may cause electric shocks and fire and shorten the product life.

6. The wiring of the harness shall be free from moisture and tightened during serving.

It shall not be deviated by certain impact.

7. Remove any dust or filth on the housing section,wiring section,connection section during servicing.

Protect from the possible cause of fire such as tracking,shortage etc.

8. Check for any mark of moisture on the electrical parts, harness section etc.

Replace the parts or remove the moisture..

9. Check the assembly status of the parts after servicing.

Maintain the status before servicing..

10. Pull out the power cord by holding the plug.

Be careful of electric shocks and fire when the cord is damaged.

11. Unplug the power plug from the outlet when the washing machine is not used.

Be careful of electric shocks and fire due to the strike of lightning.

12. Do not use or store sprays or flammable materials(including gasoline,alcohol etc.) around the washing machine.

Be careful of explosion or fire due to electric sparks.

13. Do not put a bowl of water or wet laundry on the washing machine.

If the water has penetrated into the washing machine, this may cause electric shocks or fire.

14. Do not install the washing machine where it is exposed to bad weather.

It may cause electric shocks and fire and shorten the product life.

15. Do not push the control buttons with the awl,pin, or sharp materials.

It may cause electric shocks and damage.

16. Check that the washing machine is leveled horizontally and installed properly on the floor.

The vibration may shorten the product life..

17. Joint the wire by the connector correctly.

When the wire is jointed by tape, this may cause fire due to tracking.

18. When the washing machine is to be laid for service, put the pad on the floor and lay the product on its side slowly.

If the washing machine is laid on its front, the relay may be damaged by the tub.

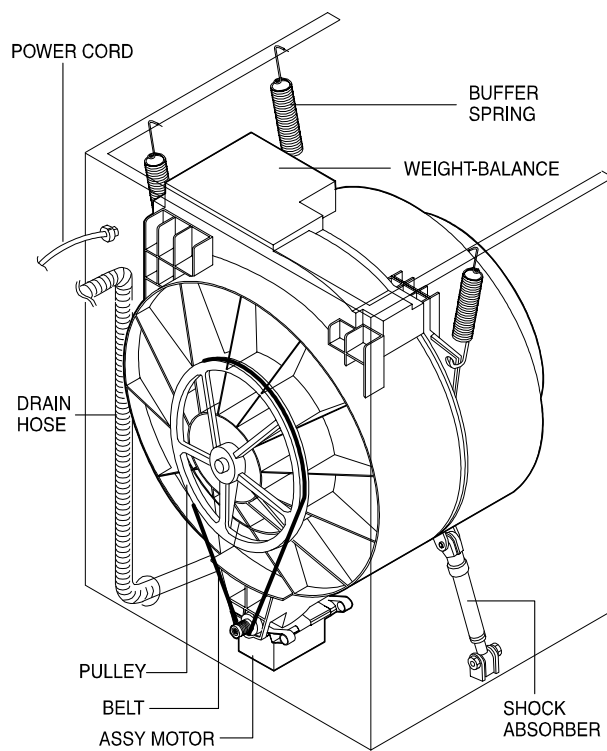
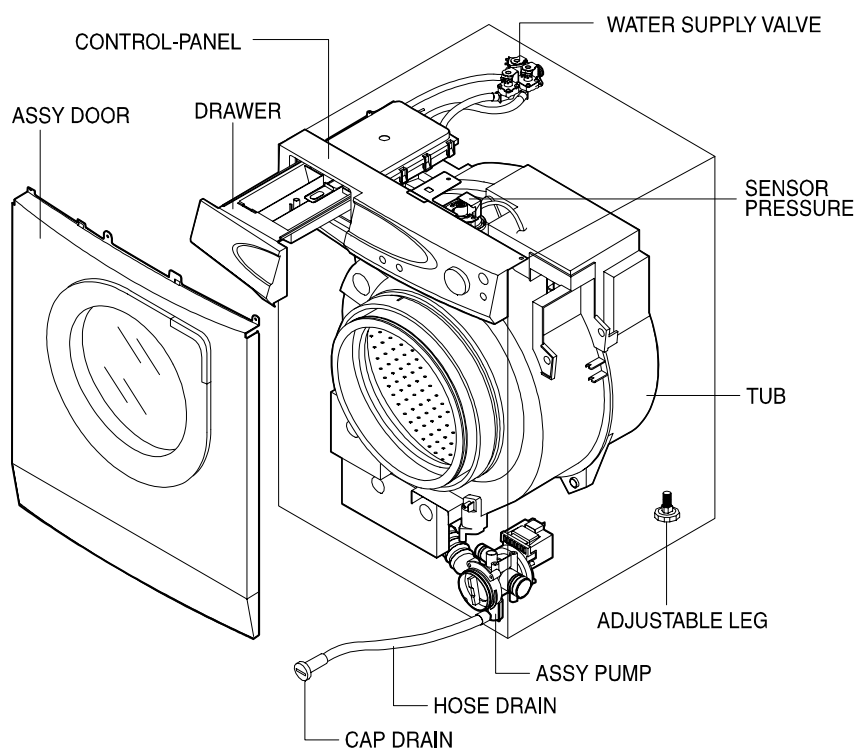
19. When the wash-heater is replaced, check it is inserted in the bracket-heater and screw the nut.

If the wash is not inserted in the bracket-heater properly, this may cause the noise and leakage since it is contacted to the drum.

1. Specifications

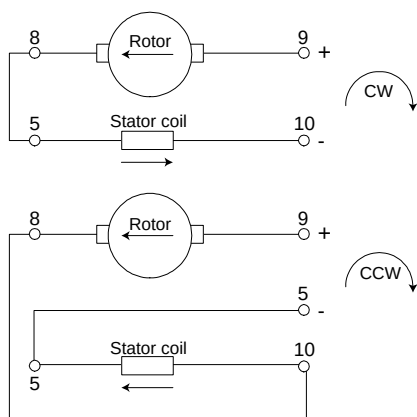
WASH TYPE	FRONT LOADING TYPE				
DIMENSIONS	GROSS		W 669 mm X D 656 mm X H 910 mm		
	NET		W 598 mm X D 550 mm X H 844 mm		
WATER PRESSURE	50 kPa ~ 800 kPa				
WEIGHT	GROSS		80 kg		
	NET		75 kg		
WASH and SPIN CAPACITY	5.0 kg (DRY LAUNDRY)				
POWER CONSUMPTION	WASHING		220 V		180 W
			240 V		180 W
	WASHING and HEATING		220 V		2000 W
			240 V		2400 W
	SPIN	MODEL	P8091	P1091	P1291
		220-240V	430W	500W	550W
	PUMPING		34 W		
WATER CONSUMPTION	49 l (STANDARD COURSE)				
SPIN REVOLUTION	MODEL		P8091	P1091	P1291
	rpm		800	1000	1200

2. Overview of the Washing Machine

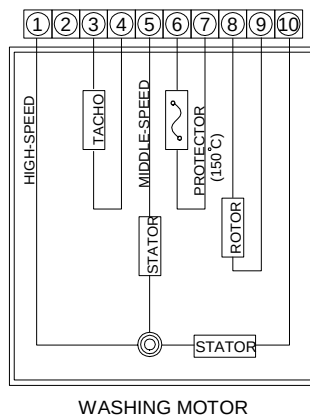


7. Designation of Main Components

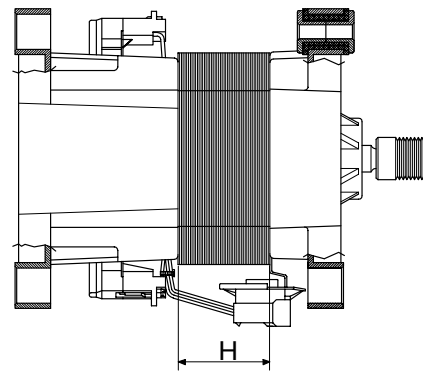
7-1 Normal / Reverse Revolution of Motor and R. P. M. Control



<Figure1>



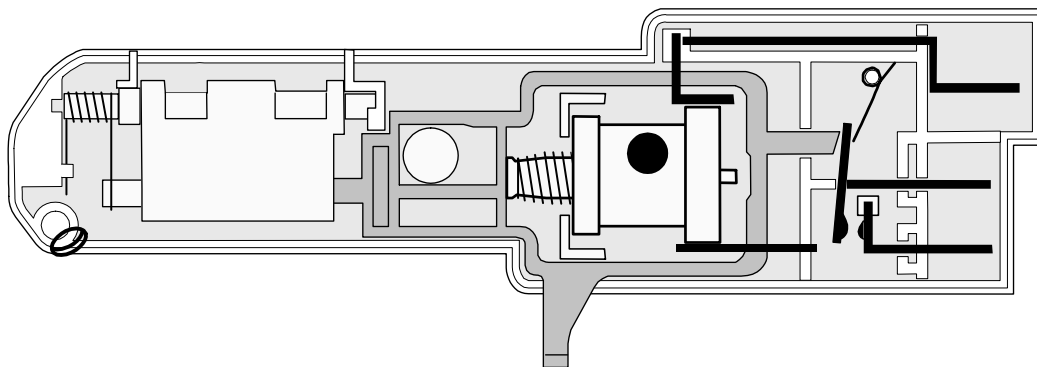
<Figure2>



<Figure3>

	STATOR(5.1)	STATOR(5.1)	ROTOR(8.9)	TACHO(3.4)	PROTECTOR (6.7)	"H" (mm)	Code-No.	Remarks
Resistance value	-	1.592Ω	2.094Ω	38.8Ω	0	39	DC31-00002E	P8091
	2.07Ω	0.90Ω	2.36Ω	42.7Ω		45	DC31-00002C	P1091 P1291
Rated value	220~240V/50Hz							

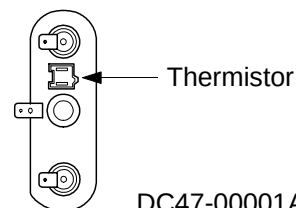
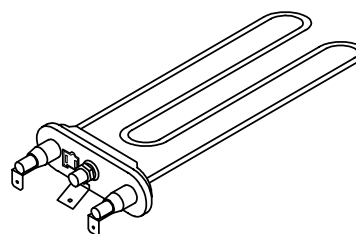
7-2 Door safety Device



DC64-00120E

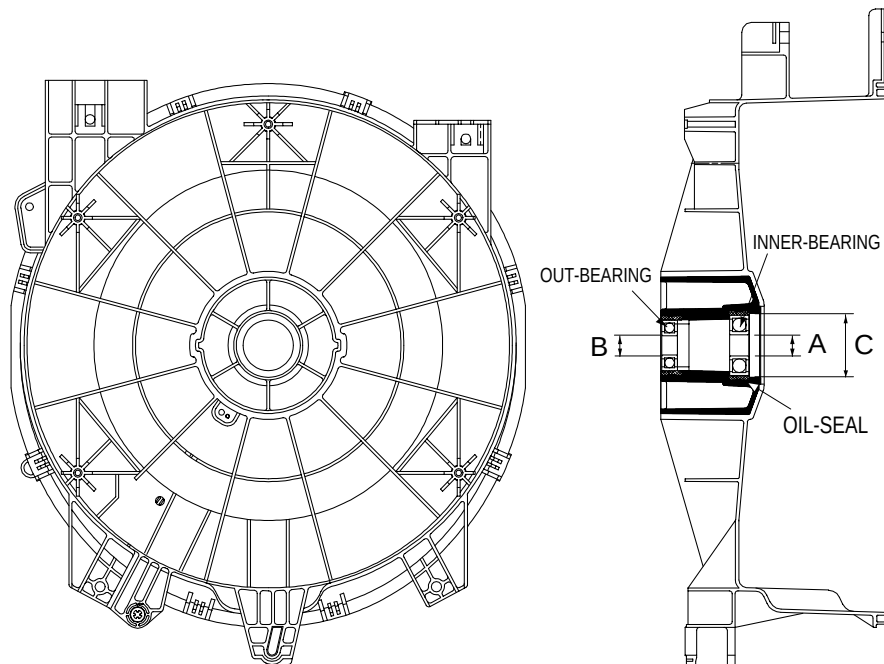
7-3 Heater

- 1) Capacity : AC 230V/2000W
- 2) Location : Bottom of TUB
- 3) Function : Raise the water temperature supplied at the wash process.
- 4) Resistance value : 23~29Ω
- 5) Thermal Fuse : 128°C



DC47-00001A

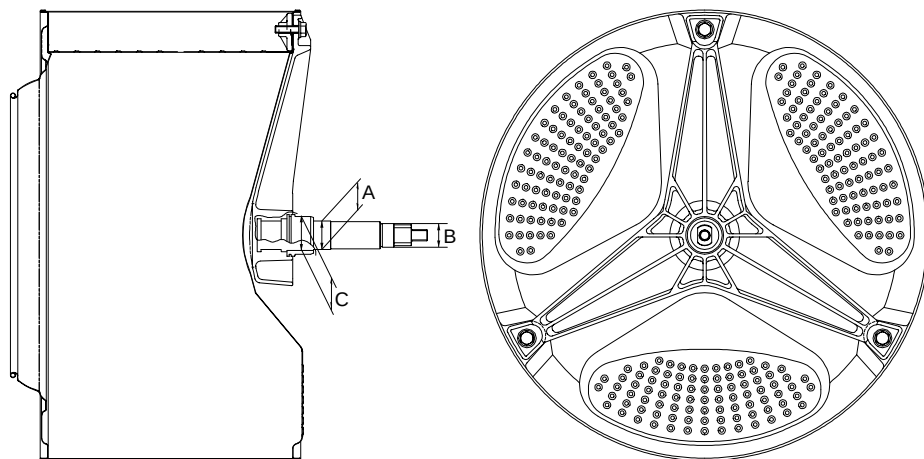
7-4 ASSY-TUB BACK



(unit : mm)

TYPE	INNER-BEARING(A)	OUT-BEARING(B)	OIL-SEAL(C)	Assy-Housing Bearing(D)	REMARKS
I	ø 30	ø 25	ø 43.9	DC97-00214B	P1091/P1291
II	ø 20	ø 17	ø 24.3	DC97-00214K	P8091

7-5 ASSY- DRUM



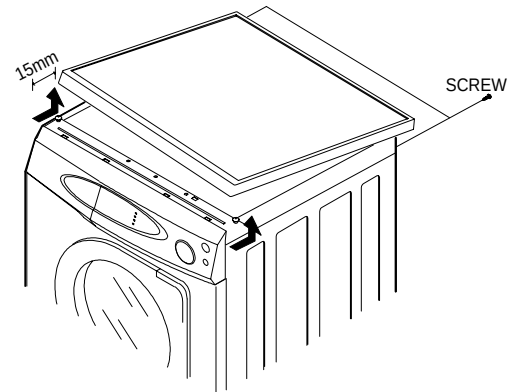
(unit : mm)

TYPE	(A)	(B)	(C)	CODE-NO.	REMARKS
I	ø 30	ø 25	ø 44.7	DC97-01463A	Lifter type P1091/P1291
II	ø 20	ø 17	ø 25	DC97-01463B	Lifter type P8091

9. Assemble and Disassemble

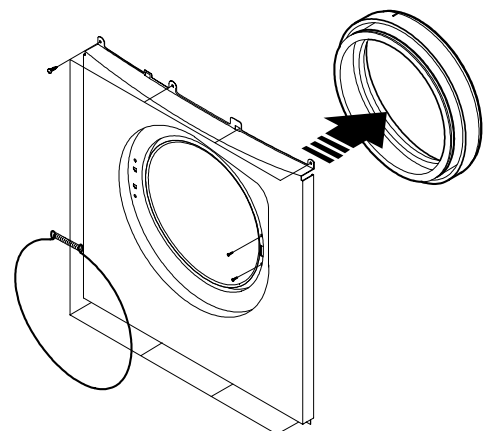
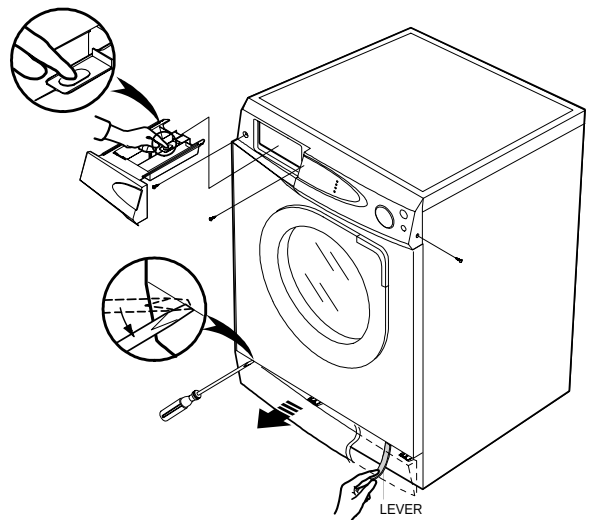
1. ASS' Y-COVER TOP

- 1) Remove two screws fixing the top-cover to back side.
- 2) Push the top-cover back about 15mm and pull it up.
- 3) It's possible to exchange and service the transformer, the pressure-sensor, the noise-filter and the water valve.



2. FRAME FRONT

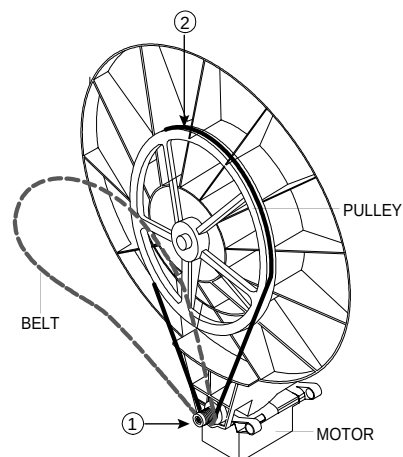
- 1) Remove the top-cover and the ass' y drawer.
- 2) Remove two screws fixing the control-panel to front side and the screw on right side.
- 3) Remove the cover-front(L) by using the (-)driver.
- 4) Pull the lever and open the ass' y-door.
- 5) Part the diaphragm and the wire diaphragm away from the frame-front.
- 6) Remove the eight screws fixing the frame-front.
- 7) It's possible to exchange and service the heater, the pump, the shock-absorber and the door lock s/w.



9. Assemble and Disassemble

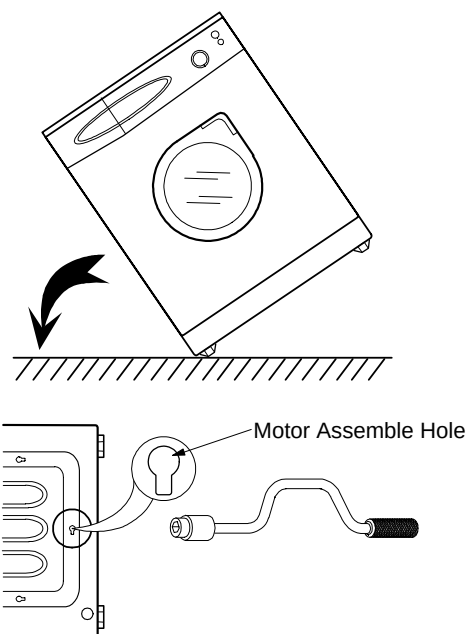
3. BELT

- 1) Remove the top-cover.
- 2) Disassemble and assemble the belt.
- 3) Check that the belt is located at center of the motor-pulley.
<When assembling the belt>
Hook the belt onto the motor pulley 1) and place it around the pulley 2).



4. MOTOR

- 1) Lay down the washer on left side.
- 2) Remove the wire housing from the motor.
- 3) Remove the bolt fixing the motor with the box drive on back side.
- 4) Remove the motor.



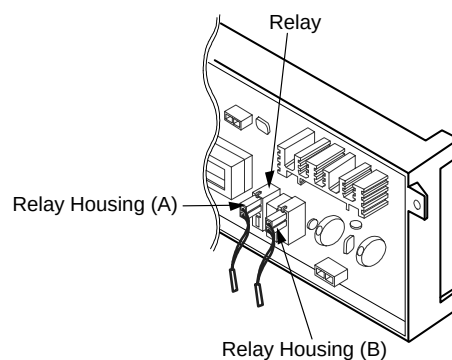
5. How to Assemble the RELAY Housing.

<CAUTION>

Insert the Relay Housing to the Relays on the opposite direction from each other.

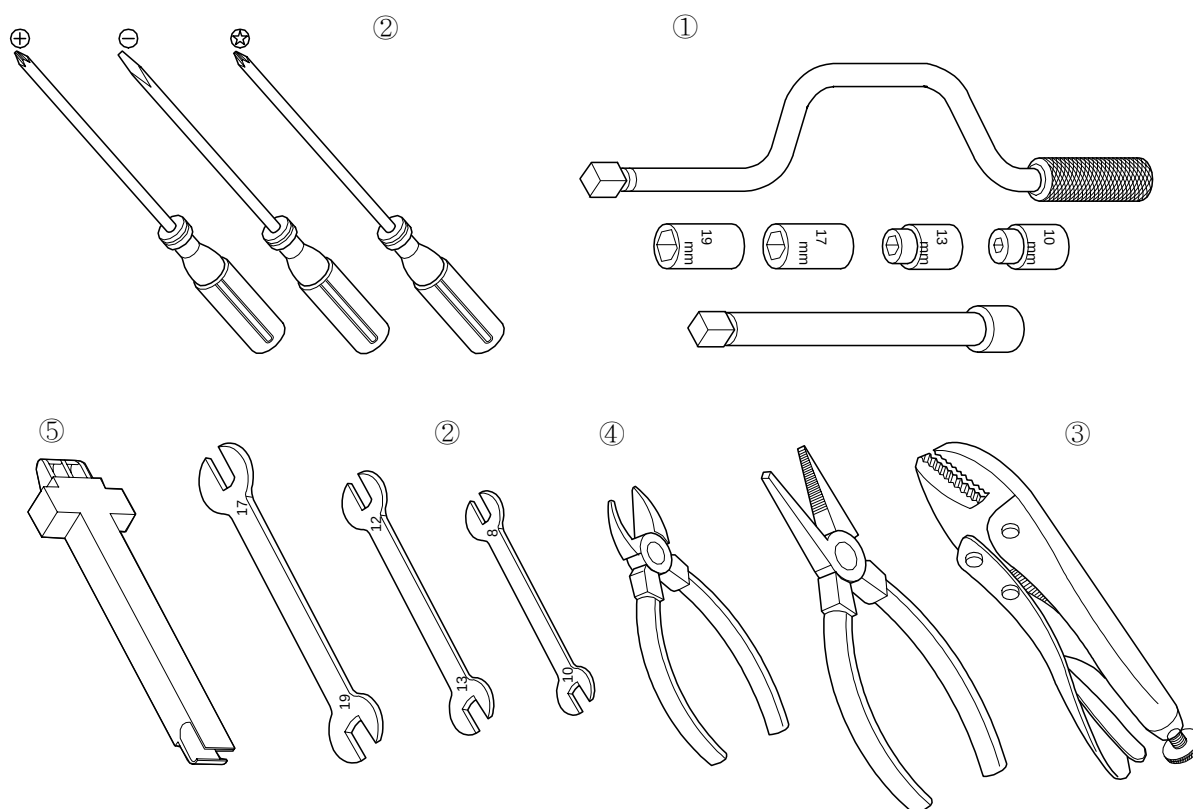
* Relay Housing Color *

A	B
WHITE	BLUE



10. Tools for Disassembly and Assembly

NO.	TOOL		
①	Box driver	10mm 13mm 17mm 19mm	Heater (1) Motor (1), Balance (5) 2 holes on each left and right of the shock absorber 1 Pulley hole
②	Double-ended spanner	10, 13 17,19mm	Replaceable for the box driver. Since the bolt runs idle when the box driver is used, use the box driver 17mm.
③	Vice pliers		Tool to protect the idle and abrasion of the bolt for the box driver.
④	Other(Driver, Nipper, Long nose)		General tools for the after service.
⑤	JIG for the Tub		1 (Disassemble and Assemble)



4. General Error Function

- When an error occurs, this function starts to keep generating error melody sounds and displays error indicators as shown in the followings per corresponding error by blinking in 0.5sec intervals until the error status is completely cleared out. In this case, all the driving devices are turned off until the error is cleared out.

1. WATER SUPPLY ERROR

- Water Supply Error occurs when water level frequency does not show changes more than 50Hz or water is not supplied up to the water level presetting for 20 min or more at the time of initial water supply, the error status can be cleared by turning POWER S/W OFF and resuming the POWER ON initial status.
- Display shows 'E1'.

2. WATER DRAIN ERROR

- Display shows 'E2'.
- In case the water level frequency is 25.5KHz or less in the initial phase of UNB-detecting cycle.
- Water Drain error can be cleared by turning POWER S/W OFF and resuming the POWER ON initial status.

3. OVER-FLOW ERROR

- Display shows 'E3'.
- Over-Flow error occurs when the water level is in abnormal operation. It can be cleared by turning POWER S/W OFF. Water is drained prior to POWER S/W OFF and it is forced to be drained for 2 min if a frequency of more than 25.24 KHz is detected.

4. DOOR OPEN ERROR

- Display shows 'dE'.
- Door Open error can be cleared by closing the door.

5. UNBALANCE ERROR

- Display shows 'E4'.
- Unbalance error is cleared by POWER S/W OFF and by resuming the POWER ON initial status.

6. WATER HEATER ERROR

- Display shows 'E5,E6'.
- In case the water temperature rises by 40°C or more in 5 min. or by 2°C less in 10 min after heating is started.
- It can be cleared by turning POWER S/W OFF.

7. ASS'Y PRESSURE S/W ERROR

* Generated Frequency Signal of WATER LEVEL(W/L) S/W (KHz)

Level	Low Level	High Level
Abnormal W/L Frequency	30.00 KHz	15.00 KHz

- If the same signal as the above table is detected for more than 5 seconds, it is a PRESSURE S/W Error.
- When the error occurs, water drain pump will operate for 3 min. and then turn off the water drain pump. Then the display shows 'E7' indicating a pressure s/w error indicator.

8. ABNORMAL WATER TEMPERATURE ERROR

Course	Water Temp
Synthetic	60°C or more
Delicate	45°C or more
Wool	45°C or more

- In case the water temperature is 60°C or more in the synthetic course, 50 °C or more in the delicate
- At the time of initial water supply, if the water temperature is not appropriate, water starts to be drained and it is forced to be drained for 2 min when the abnormal frequency of 25.24KHz is detected.
- Display shows 'E8'.
- This error can be cleared by POWER S/W OFF.

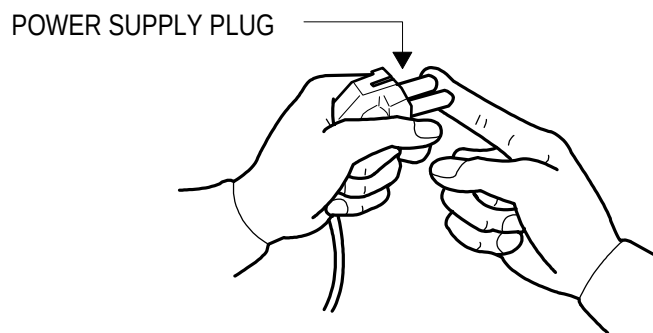
5. Trouble Diagnosis

- ◆ As the micom washing machine is configured of a complicated structure, there might be a need for a service call. The information below is prepared for exact trouble diagnosis and suitable repair guide.

Caution for the Repair and Replacement

Please follow instructions below for trouble diagnosis and parts replacement.

- 1) As some electronic components are damaged by the charged static electricity from the resin part of wash machine or the human body, prepare the human body earth or remove the potential difference of the human body and wash machine by contacting the power supply plug when the work contacting to PCB is executed.

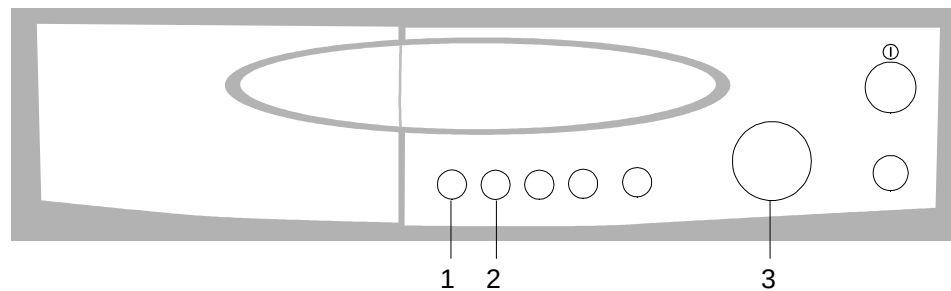


- 2) Since AC220~240V is applied to the triac T1 and T2 on P.C.B, the electric shock may occur by touching and be careful that the strong and weak electricity are not mixed.
- 3) If the P.C.B assembly is out of order, do not replace the component on P.C.B except TACT switch since the component is coated by the urethane.
- 4) As the P.C.B assembly is designed for easy handling, do not replace the P.C.B assembly by the wrong diagnosis and follow the procedure of trouble diagnosis when the micom is not operated normally.
- 5) As the parts on P.C.B are coated by the urethane, they can not be tested by the test bar of the meter. Check the trouble by the test mode method according to the procedure.

5-1. Trouble Diagnosis

No	Item	Cause and treatment
1	The power is not supplied	- Is the PCB connector connected well? - Is the voltage normal? - Is the power supply plug connected well? - Is the noise filter connected well? - Is the secondary output of the power supply transformation normal? - Is the fuse disconnected? (option) • If above points are not found, the PCB assembly is out of order. Replace it.
2	The water is not supplied.	- Is the knob open? - Did you push START/PAUSE button after selecting the course? - Is the water supply valve connected well? - Is the winding of the water supply valve continuous? - Is the connection and operation of the pressure switch normal? • If above points are not found, the PCB assembly is out of order. Replace it.
3	The wash does not start though the water supply is stopped.	- Is the connection and operation of the pressure switch normal? - Is the pressure switch hose damaged so that the air is leaked? - Is the pressure switch hose bent? - Check the operation of the water level switch. • If above points are not found, the PCB assembly is out of order. Replace it.
4	The drum does not rotate during washing.	- Is the belt connected well? - Is the winding of the motor continuous? (Rotor winding, stator winding, generator) - Is the motor protector normal? • If above points are not found, the PCB assembly is out of order. Replace it.
5	The wash is executed while the water is supplied.	- The PCB assembly is out of order. Replace it.
6	The drum rotates in one direction during washing. (The drum rotates in one direction for SPIN.)	- The PCB assembly is out of order. Replace it. (Inversion relay open trouble)
7	Drainage problem.	- Is the drainage hose bent? - Is the winding of the drainage pump continuous? - Is the drain filter clogged by waste? - If above points are not found, the PCB assembly is out of order. Replace it.
8	Dehydration problem.	- Unbalance is detected. - Put in the laundry uniformly and start again.
9	Abnormal noise during SPIN.	- Is the pulley nut loose? - Is the transport safety device removed? - Is the product installed on a level and stable surface? (Little noise may be generated during the high-speed SPIN.)
10	Leak breaker or current/leak breaker is down during washing.	<When the leak breaker and current breaker is installed separately> - When the leak breaker is down, check and sure it is grounded. - When the current is down, the current is leaked. <Is the breaker down when the leak/current breaker is combined?> - Check the rated capacity of the current and leak breaker. The current breaker may be down due to the lack of the current when the washing machine and other apparatus are used. In this case, execute the cold water wash to check whether the current capacity is lacking.
11	The heating is not executed.	- Is the wash heater terminal unplugged? - Is the wash heater normal? - If above points are not found, the PCB assembly is out of order. Replace it.

6. Test Mode



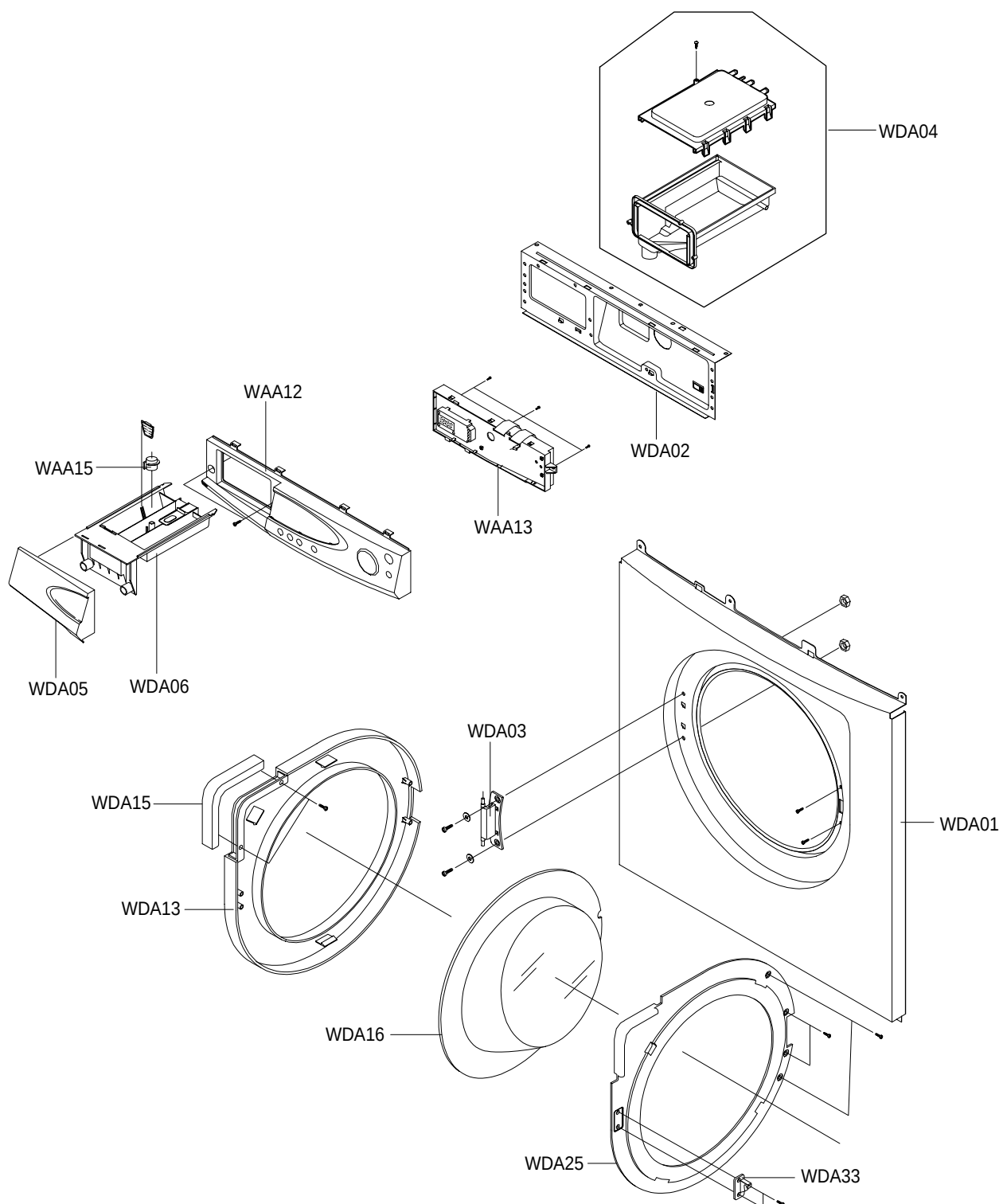
1. Driving Compartment Test Mode

- A. Hold down "2" and "1" keys simultaneously and then press ① (POWER S/W) on. (Display shows 'tE')
Hold down "1" and "2" keys simultaneously (each processing for 0.3sec) and then press ① (POWER S/W) on.
- B. The driving compartment can be tested when you press "3" key right after entering into the initial stage of the TEST MODE.

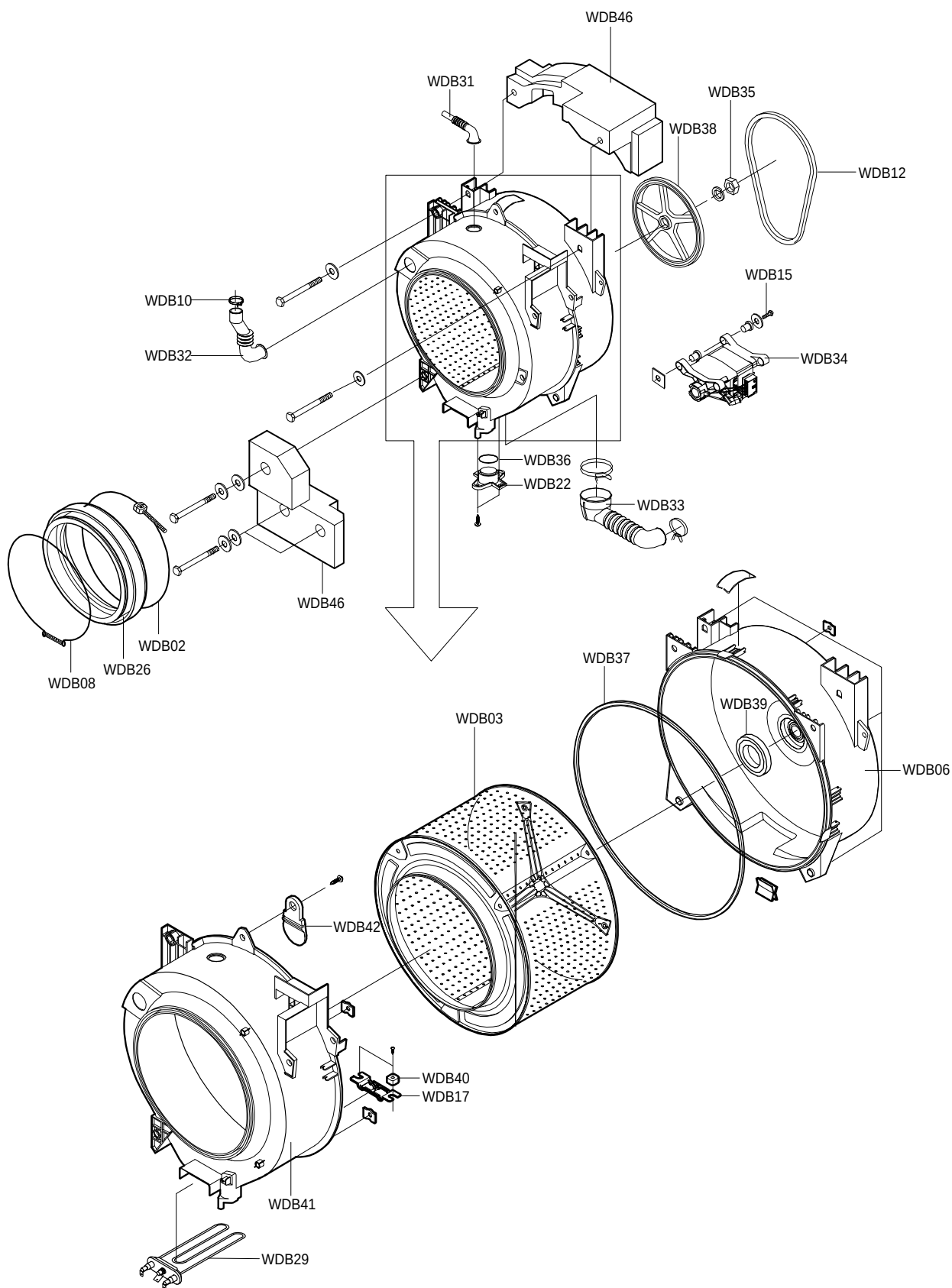
• Driving Compartment Test

Pre-wash VALVE ON(0.3sec) → OFF(0.3sec) → Main wash(0.3sec) → OFF(0.3sec) →
Rinse VALVE ON(0.3sec) → OFF(0.3sec) → Pump MOTOR ON(0.3sec) → OFF(0.3sec) →
MOTOR RELAY1 ON(0.3sec) → OFF(0.3sec) → MOTOR RELAY2(0.3sec) → OFF(0.3sec) →
MOTOR RELAY2 ON(0.3sec) → OFF(0.3sec) → HEATER RELAY ON(0.3sec) → OFF(0.3sec) →
DOOR OPEN (Function continues when door is closed)

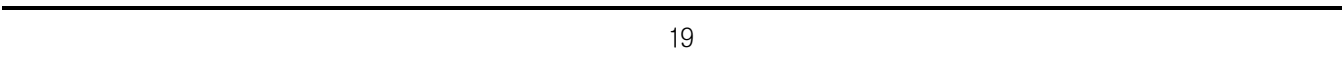
11. TOP(FRONT) - Exploded View



11. TUB - Exploded View



11. CASE - Exploded View



11. Parts List

LOCATION NO.	CODE NO.	DESCRIPTION;SPECIFICATION	Q'TY	REMARK
WAA11	DC96-00070D	ASSY-M.WIRE HARNESS;P1291/1191/1091/8091	1	P1291GW/P1091GW/P8091GW
WAA12	DC97-00003U	ASSY-PANEL CONTROL;P1291,CIS	1	P1291GW/P1091GW
WAA12	DC97-00003V	ASSY-PANEL CONTROL;P8091,CIS	1	P8091GW
WAA13	MF-P1291-00	ASSY PCB PARTS:P1291	1	P1291GW
WAA13	MF-P1091-00	ASSY PCB PARTS:P1091	1	P1091GW
WAA13	MF-P8091-00	ASSY PCB PARTS:P8091	1	P8091GW
WAA15	DC61-10687A	CAP-RINSE;PP,WHT,SWF-P12	1	
WAA37	DC32-30006P	SENSOR PRESSURE;DN-S14(P1291),TERMINAL-T	1	
WAA45	DC26-00005B	TRANS-FORMER;450MA,220~240VAC,11VDC,50,6 PC	1	
WAA46	DC97-02041A	ASSY-VALVE WATER(C);P1205J,ELBI VALVE/3W	1	
WAA46	DC62-30313D	VALVE-WATER;NYLON,SEW-760DR,ELBI/3WAY	1	
WAB15	DC96-00053C	ASSY-WIRE HARNESS;P1491-P1091(SUB),HIGH-	1	P1291GW/P1091GW
WAB15	DC96-00053D	ASSY-WIRE HARNESS;P8091-P6091(SUB),LOW-	1	P8091GW
WAB18	DC60-40133A	BOLT-PULSATOR;M8,L25,-,STS 304	3	
WAB19	DC61-10676A	CAP-TRAP;PP(TB53),-,SWF-P12	1	
WAB22	DC61-00041A	CUSHION-MOTOR;BUTYL,SWF-6V,ID16/OD20	2	
WAB27	DC62-10302A	HOSE-DRAIN;EPDM,ID5.5,BLK,L220,OD9.5	1	
WAB28	DC62-10022G	HOSE-PUMP;PP(BB110),ID21,WHT,L2200,-	1	
WAC04	DC62-10289B	HOSE-WATER(C);PVC+NYLON,ID10.2,GRY,L1500	1	
WAC07	DC97-00139B	ASSY-HOSE DRAIN(O);SWF-P12V,PP(BB110)220	1	
WAC08	DC91-12292A	ASSY-LEG;SWF-P12,-	4	
WAC10	DC96-00146A	ASSY-POWER CORD;P1291-P6091,250V/16A(PV)	1	
WAC11	DC96-00115A	ASSY-PUMP DRAIN;P1291-P1091,220-240V/50H	1	P1291GW/P1091GW
WAC11	DC96-00115B	ASSY-PUMP DRAIN;P8091/P6091,220-240/50/GRY	1	P8091GW
WDA01	DC97-00416A	ASSY-FRAME FRONT;SWF-P12,FRAME-FRONT	1	
WDA02	DC97-00417A	ASSY-FRAME PLATE(U);SWF-P12,FRAME-PLATE(	1	
WDA03	DC97-00100B	ASSY-HINGE;P1205J,STS430	1	
WDA04	DC91-12085A	ASSY-HOUSING DRAWER;SWF-P12,-	1	
WDA05	DC97-00004L	ASSY-PANEL FRONT;P1291,-	1	P1291GW
WDA05	DC97-00004M	ASSY-PANEL FRONT;P1091,-	1	P1091GW
WDA05	DC97-00004N	ASSY-PANEL FRONT;P8091,-	1	P8091GW
WDA06	DC61-30348A	BODY-DRAWER;PP,WHT,SWF-P12	1	
WDA13	DC61-10682A	COVER-DOOR;ABS,WHT,SWF-P12	1	P1291GW/P1091GW/P8091GW
WDA15	DC64-20013D	DECORATION-LID;ABS,-,SEW-660DW,CR	1	P1291GW
WDA15	DC64-20013B	DECORATION-LID;ABS,GRY,SWF-P10/SEF-P8	1	P1091GW/P8091GW
WDA16	DC61-00013A	DOOR-GLASS;GLASS,NTR,SWF-P12	1	
WDA25	DC61-40346A	HOLDER-GLASS;ABS,WHT,SWF-P12,-	1	
WDA26	DC62-10068A	HOSE-DRAWER;SOFT-PVC,ID10,NTR,L350,-	0.69	
WDC28	DC66-30160A	LEVER;PE,L335,SWF-P12(ORG)	1	
WDA35	DC61-00035E	PANEL-DRAWER;ABS(W9737),PEARL/WHT,P1291	1	P1291GW
WDA35	DC61-00035F	PANEL-DRAWER;ABS(W9737),PEARL/WHT,P1091	1	P1091GW
WDA35	DC61-00035G	PANEL-DRAWER;ABS(W9737),PEARL/WHT,P8091	1	P8091GW
WDB02	DC91-12077A	ASSY-CLAMP DIAPHRAGM;SWF-P12,TUB	1	
WDB03	DC97-01463A	ASSY-DRUM;SWE-1400,NEW DRUM/LIFTER TYPE	1	P1291GW/P1091GW
WDB03	DC97-01463B	ASSY-DRUM;P801(800RPM),LEFTER TYPE/NEW-DRUM	1	P8091GW
WDB06	DC97-00214B	ASSY-TUB BACK;P1291/SWF-P12,BACK/1000RPM	1	P1291GW/P1091GW
WDB06	DC97-00214K	ASSY-TUB BACK;SWF-P8/P6091,LOW-RPM/NO.3	1	P8091GW
WDB08	DC91-12078A	ASSY-WIRE DIAPHRAGM;SWF-P12,FRAME-FRONT	1	

11. Parts List

LOCATION NO.	CODE NO.	DESCRIPTION;SPECIFICATION	Q'TY	REMARK
WDB12	DC66-10139B	BELT-TRANSMISSION;RUBBER,POLY-V J5,-,SWF	1	
WDB17	DC61-40344A	BRACKET-HTER;STS430,T1,SWF-P12,-	1	
WDB26	DC61-20219A	DOOR-DIAPHRAGM;EPDM,-,-,-,-,-,GRY,SWF-	1	
WDB29	DC47-00001A	HEATER;- ,230V,2000W,230V2000W,-,P6091,-,	1	
WDB31	DC62-10303A	HOSE-AIR;EPDM,ID24,BLK,L130,SWF-P12/OD4	1	
WDB32	DC62-10305A	HOSE-DRAWER TUB;EPDM,ID35,BLK,L158,SWF-P	1	
WDB33	DC62-10304A	HOSE-FILTER TUB;EPDM,ID65,BLK,L151,SWF-P	1	
WDB34	DC31-00002C	MOTOR-DRUM;MCC 45/64 148/SEC1,220~240V,5	1	P1291GW/P1091GW
WDB34	DC31-00035H	MOTOR-DRUM;HXGN21.02,SFW-P8,-,50Hz	1	P8091GW
WDB37	DC62-40183A	PACKING-TUB;EPDM,BLK,SWF-P12	1	
WDB39	DC62-00008A	SL-OIL;NBR(SD35),BLK,NBU(PI15)	1	
WDB40	DC61-60496A	SPACER-HEATER;PBT,SWF-P12,-	2	
WDB41	DC61-30346A	TUB-FRONT;FRPP(GR30%),IVORY,SWF-P12	1	
WDB42	DC62-20311A	VANE-CHECK;EPDM,BLK,SWF-P12,-	1	
WDB46	DC66-60153A	WEIGHT-BALANCER;CONCRETE,SWF-P12,UPPER	1	
WDB46	DC66-60154A	WEIGHT-BALANCER;CONCRETE,SWF-P12,LOWER	1	
WDC01	DC97-00851A	ASSY-COVER TOP;SWF-P12,WOOD/WHT	1	
WDC02	DC97-00730J	ASSY-DOOR;SEW-670DW,SILVER/BUTTON-TYPE	1	P1291GW
WDC02	DC97-00730M	ASSY-DOOR;P1005J,LEVER/KOREA/GRY	1	P1091GW/P8091GW
WDC03	DC99-00060A	ASSY-PAINT FRAME;P1091,COLD/P-HOLE-LOWER	1	
WDC06	DC61-40345A	BRACKET-PRESSURE;GI or GA,T1.0,SWK-P12,-	1	
WDC08	DC61-10673A	CAP-DRAIN;PP(TB53),WHT,SWF-P12	1	
WDC12	DC61-10672A	COVER-FRONT(L);SWF-P12,PP(BJ-730),-,WH	1	
WDC14	DC66-60149A	DAMPER-SHOCK;- ,SWF-P12,80N	2	
WDC17	DC64-00120E	DOOR-LOCK S/W;760DR,NYLON,-,WHT,-,VDE/	1	P1291GW/P1091GW/P8091GW
WDC19	DC29-00004A	FILTER-EMI;FA-2137T-2,P/PV-PJT,250V,13A,	1	
WDC25	DC62-10311A	HOSE-PRESSURE;EPDM,ID13.5,BLK,-,SWF-P12/	1	
WDC28	DC66-00096A	LEVER-DOOR;ZnDC,-,W20,L40,-,P1405J,-	1	P1291GW/P1091GW/P8091GW
WDC31	DC31-00007A	PUMP-DRAIN;DC31-00007A,220~240V/50HZ,-,C	1	
WDC33	DC61-70216C	SPRING-HANGER;HSWR,CD3.5,-,L175,-,P129	2	

11. Screw/Bolt List

CODE NO.	DESCRIPTION	SPECIFICATION	Q'TY	ASSEMBLY LOCATION
DC60-40132B	BOLT-FLANGE	M8,L210,ZPC2(YEL),SS41C	1	WEIGHT/U
DC60-40144A	BOLT-HEX	M10,L41,ZPC2(YEL),SM10C/DAMPER	2	DAMPER+FRAME
DC60-40142A	BOLT-HEX	SM10C/FIXER,HEX,M7,L88.4,-,ZPC2(YEL),-, -	1	-
DC60-40140A	BOLT-HEX	WEIGHT-UL/SM10C,HEX,M8,L147,-,ZPC2(YEL),-, -	1	WEIGHT/L
DC60-40140A	BOLT-HEX	WEIGHT-UL/SM10C,HEX,M8,L147,-,ZPC2(YEL),-, -	1	WEIGHT/U
DC60-40141A	BOLT-HEX	SM10C/DAMPER,HEX,M8,L66,-,ZPC2(YEL),-, -	2	DAMPER+TUB
DC60-40005A	BOLT-HEX	M4,L60,ZPC2(YEL),SS41C,-,-,-	1	-
DC60-40133A	BOLT-PULSATOR	M8,L25,-,STS 304	3	-
DC60-40138A	BOLT-W.MOTOR	SM10C,HEX,M8,L62,-,ZPC2(YEL),-, -	1	MOTOR
DC60-40138A	BOLT-W.MOTOR	SM10C,HEX,M8,L62,-,ZPC2(YEL),-, -	2	WEIGHT/L
DC61-00201A	BRACKET-NUT	SBHG-R,T3,P1291,-,NO-PAINT/MOTOR,-,-,-	1	MOTOR
DC61-40348B	BRACKET-NUT	SBHG-R,T3,P1291,NO-PAINT	2	TUB-BACK
DC61-40348B	BRACKET-NUT	SBHG-R,T3,P1291,NO-PAINT	5	TUB-FRONT
DC61-00118A	CLAMP-HOSE	LYLON6/6,ID27,OD30,P1291,-	1	H-DRAIN(O)
DC61-00133A	CLAMP-HOSE	PP(BJ-730),ID24.5,OD29.5,P1291,HOSE+PLUG	1	FRAME+HOSE(O)
DC61-60063B	CLAMP-HOSE	SK5,-,YEL	1	HOSE-PRESSURE
DC61-60359D	CLAMP-HOSE	HSWR,-,-,SEW-745DW,ID8.5/OD10.5	1	HOSE-PRESSURE
DC61-60497A	CLAMP-HOSE	HSWR,SWF-P12,ID70/OD75.8(TUB)	1	HOSE-FILTER TUB
DC61-00219C	CLIP-HOSE	SK-5,WLSL1100A,ZPC2,ID35,OD37.4	1	PUMP+HOSE-FILTER TUB
DC61-60499B	CLIP-TUB	HSWR,P1291,NO/PAINT	8	TUB
DC61-60520A	CLIP-TUB	SK5,SWF-P12,PLATE-TYPE	2	TUB
DD60-50018A	NUT-FLANGE	-,M5XP0.8,FZY,MSWR10,-	2	HINGE
DC61-70216C	SPRING-HANGER	HSWR,CD3.5,-,L175,-,-,P1291,OD25.1	1	LEFT
DC61-70216C	SPRING-HANGER	HSWR,CD3.5,-,L175,-,-,P1291,OD25.1	1	RIGHT
DC60-60040A	WASHER-NYLON	-,ID10.5,OD32,T2,-,PBSP-1/2H	1	FIXER
DC60-60040A	WASHER-NYLON	-,ID10.5,OD32,T2,-,PBSP-1/2H	3	WEIGHT/L
DC60-60025C	WASHER-PLAIN	PVC,ID5.5,OD10,T1,-,-,WHT(SWF-P12)	2	HINGE
DC60-60044B	WASHER-PLAIN	SBC,ID8.4,OD30,T3,-,-,-	1	FIXER
DC60-60044A	WASHER-PLAIN	-,ID10.5,OD30,T3,-,STS304	2	DAMPER+TUB
DC60-60044B	WASHER-PLAIN	SBC,ID8.4,OD30,T3,-,-,-	1	MOTOR
DC60-60044B	WASHER-PLAIN	SBC,ID8.4,OD30,T3,-,-,-	3	WEIGHT/L
DC60-60044B	WASHER-PLAIN	SBC,ID8.4,OD30,T3,-,-,-	2	WEIGHT/U
DC60-60049A	WASHER-SPRING	-,ID10.5,OD18,T2.5,-,SIR	1	PULLEY