

Service Manual

Washing Machine

Model: DWD-HB143/HB144**
DWD-HC123**/HC124**
DWD-GN123****

✓ 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>).

Dongbu Daewoo Electronics

May. 2016

Contents

1. SPECIFICATIONS2

2. INSTALLATION4

 Removing transit bolts4

 Installation place requirement.....5

 BS Plug Safety Details (For U.K. User)5

 Connecting inlet hose6

 Installation of drain hose7

 Level adjustment.....8

3. MAINTENANCE9

 Cleaning your washer9

 Cold condition9

 Cleaning the water inlet filter.....10

 Cleaning the drain pump filter.....10

 Cleaning the detergent case.....11

 Cleaning the washing drum11

4. DIRECTION FOR DISASSEMBLY12

5. EXPLODE VIEW AND PARTS LIST.....17

6. FUNCTIONS OF THE CONTROL PANEL32

7. FUNCTIONS OF THE CONTROLLER.....34

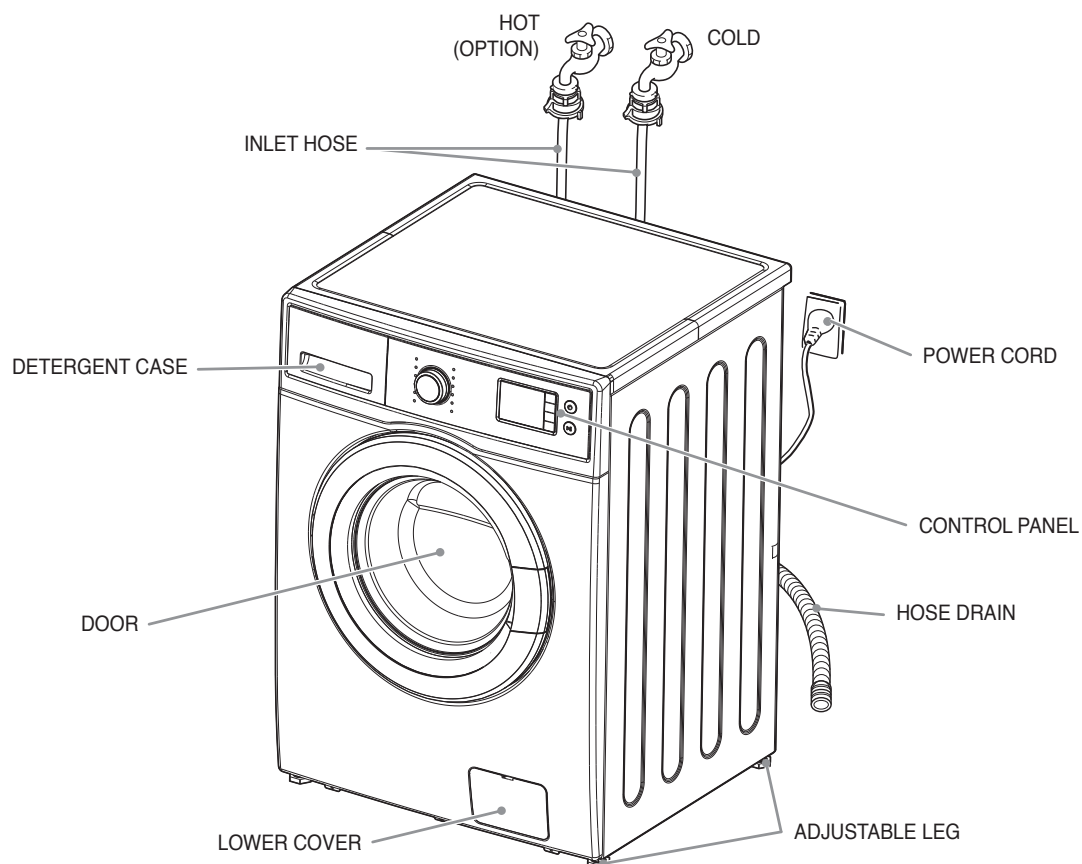
8. FUNCTION OF THE CONVENIENT SERVICE.....36

9. TROUBLESHOOTING GUIDE38

10. WIRING DIAGRAM42

1. SPECIFICATIONS

■ DWD-HB143**/DWD-HC123**/DWD-GN123**

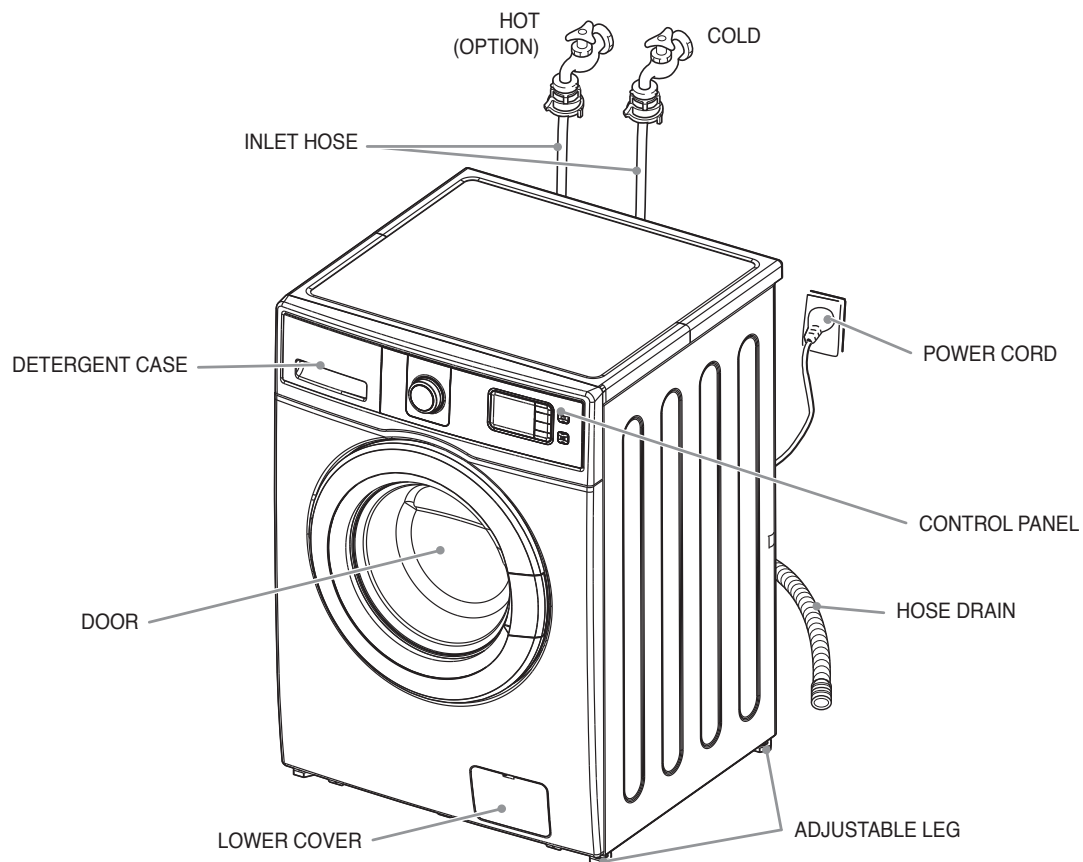


MODEL	DWD-HB143**	DWD-HC123**	DWD-GN123**
Manufacturer	Dongbu Daewoo Electronics		
Country of Origin	The Republic of Korea		
Type	DD MOTOR	UNIVERSAL MOTOR	
Spin Speed(RPM)	MAX 1400	MAX 1200	
Voltage/Frequency	220~240V / 50Hz		
Power Input	2200W		
Wash Heater	2000W		
Dimension(mm)	595 X 850 X 540		
Maximum mass of textile(kg)	7 ~ 8kg		
Unit Weight(net/gross)	60.8kg/64.6kg	61.3kg/64.8kg	62kg/66kg
Standard Water Consumption	60L		
Operating Water Pressure	0.03Mpa ~ 0.8Mpa (0.3kgf/cm ² ~ 8kgf/cm ²)		
IP CODE	IPX4		

■ Accessories

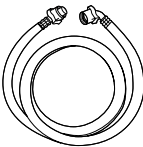


Inlet hose	Manual	Cap holder (3EA)

■ DWD-HB144**/DWD-HC124**



MODEL	DWD-HB144**	DWD-HC124**
Manufacturer	Dongbu Daewoo Electronics	
Country of Origin	The Republic of Korea	
Type	DD MOTOR	UNIVERSAL MOTOR
Spin Speed(RPM)	MAX 1400	MAX 1200
Voltage/Frequency	220~240V / 50Hz	
Power Input	2200W	
Wash Heater	2000W	
Dimension(mm)	595 X 850 X 540	
Maximum mass of textile(kg)	7 ~ 8kg	
Unit Weight(net/gross)	60.8kg/64.6kg	61.3kg/64.8kg
Standard Water Consumption	60L	
Operating Water Pressure	0.03Mpa ~ 0.8Mpa (0.3kgf/cm ² ~ 8kgf/cm ²)	
IP CODE	IPX4	

■ Accessories

Inlet hose	Manual	Cap holder (3EA)
		

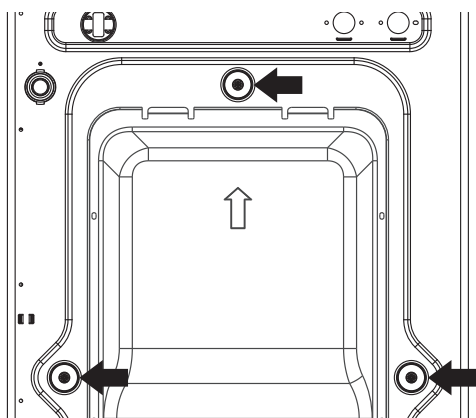
2. INSTALLATION

■ Transit bolts

The appliance is fitted with transit bolts to prevent internal damage during transport.

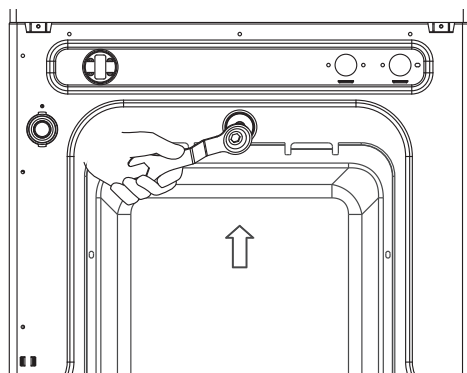
■ Removing transit bolts

1. Before operating the washer, remove the transit bolts(3ea) along with the rubber.

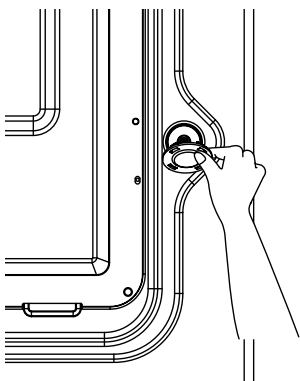


2. Unscrew the 3 bolts with the 10mm hex wrench or spanner or cross-tip screwdriver. Keep the 3 bolts for a later time.

- When the appliance is transported, transit bolts will be re-used.

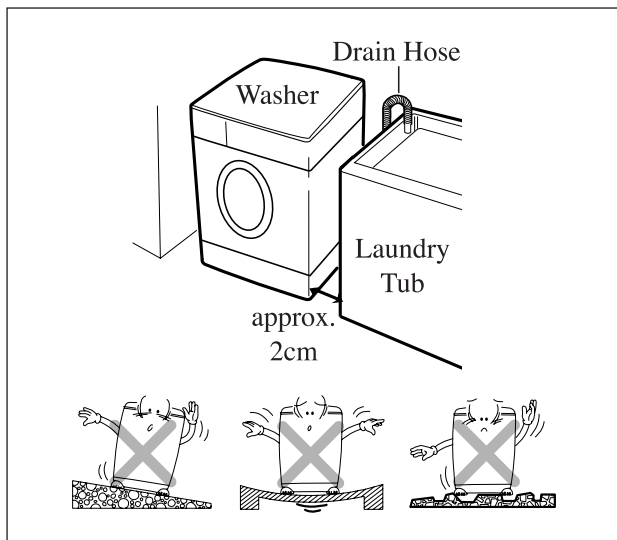


3. Close the holes with Cap holder supplied.



CAUTION : If the bolts are not removed, it may cause heavy vibration, noise and malfunction.

■ Installation place requirement



Level floor :

Allowable slope under entire washer is 1°.

Power outlet :

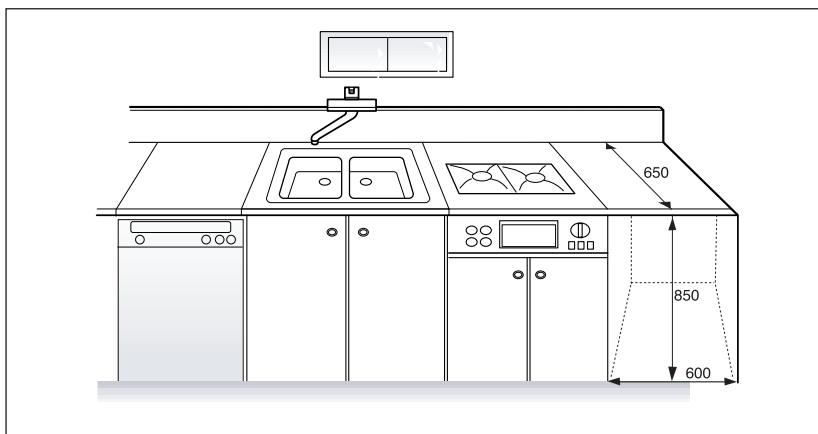
Must be with 1.5 meters of entire side of location of washer. Do not overload the outlet with more than one appliance.

Additional Clearance :

For wall, door and floor modeling is required.
(10cm : rear / 2cm : right & left side)

Do not place or store laundry products on top of washer at any times.

They can damage the finish or controls.



■ BS Plug Safety Details (For U.K. User)

IMPORTANT

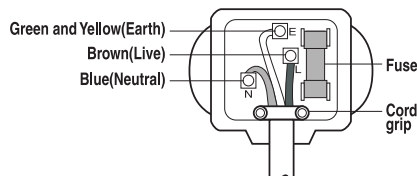
THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

GREEN AND YELLOW : EARTH

BLUE : NEUTRAL

BROWN : LIVE

This appliance must be earthed



As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Green and Yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol \oplus or coloured Green or Green and Yellow.

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Red.

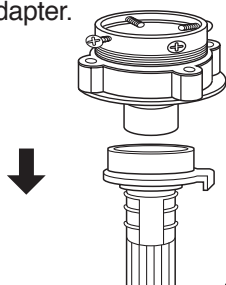
If a 13 amp (BS 1363) plug is used, fit a 13amp BS 1362 fuse.

■ Connecting inlet hose

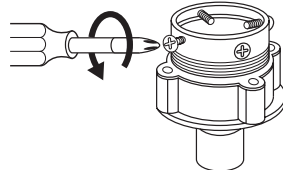
In using only one water tap or in case of only one water inlet valve, connect the inlet hose to the cold water inlet valve.
Option : Be careful not to confuse hot water inlet and cold water inlet.

• • • • FOR ORDINARY TAP

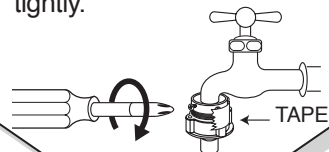
- ① Pull down the collar of the inlet hose to separate it from the water tap adapter.



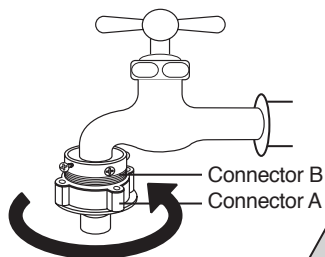
- ② Loosen the four screws properly in order to fit into water tap.



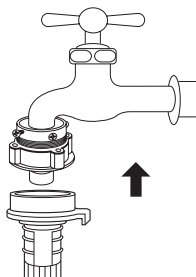
- ③ Fit the water tap adapter into the water tap and tighten the four screws evenly while pushing up the adapter so that the rubber packing can stick to the water tap tightly.



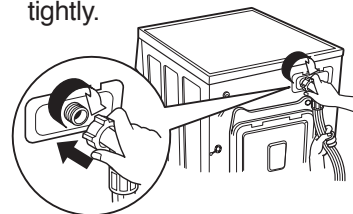
- ④ Remove the tape, and screw connector B into connector A tightly.



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



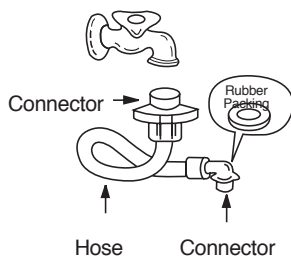
- ⑥ Connect the inlet hose adapter of the hose to the water inlet of the washer by turning it clockwise to be fixed tightly.



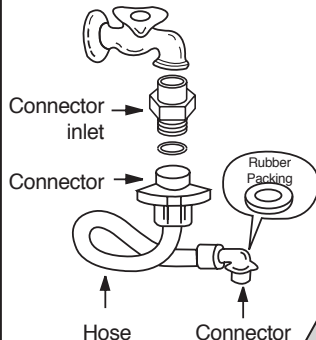
• Please check the rubber packing present inside the inlet hose adapter of the hose.

• • • • FOR SCREW-SHAPED TAP

- ① Connect the inlet hose to the water tap adapter by pulling down the collar of the hose end.



- ② Connect the connector- inlet supplied if necessary.

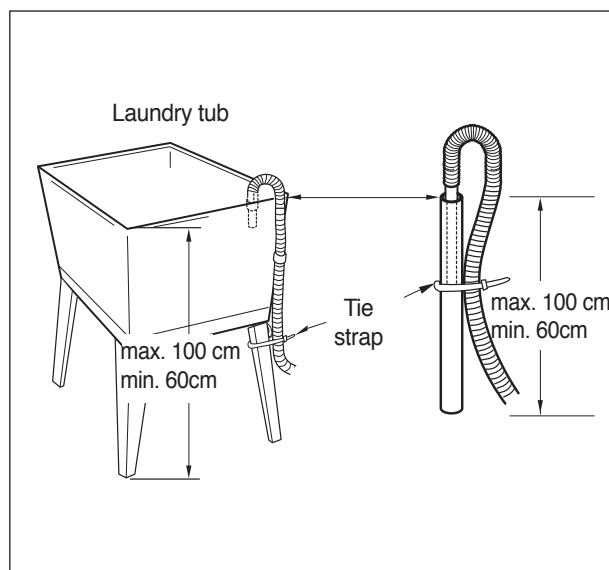
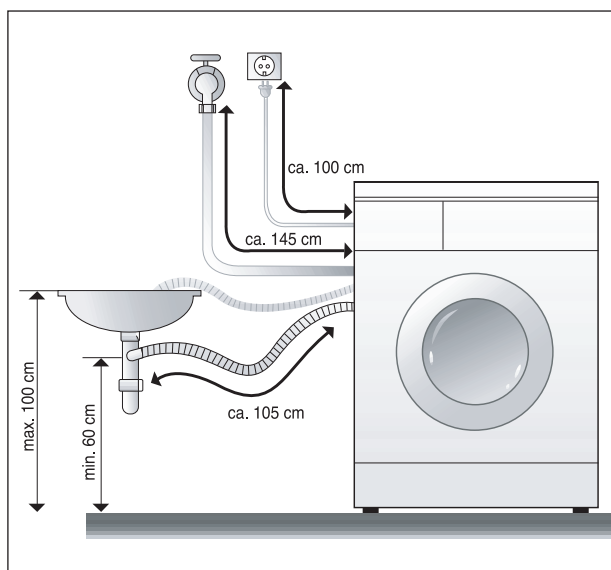


- ③ Connect the inlet hose adapter to the water inlet of the washer and turn it to be fixed.



• Check the packing in the inlet.

■ Installation of drain hose



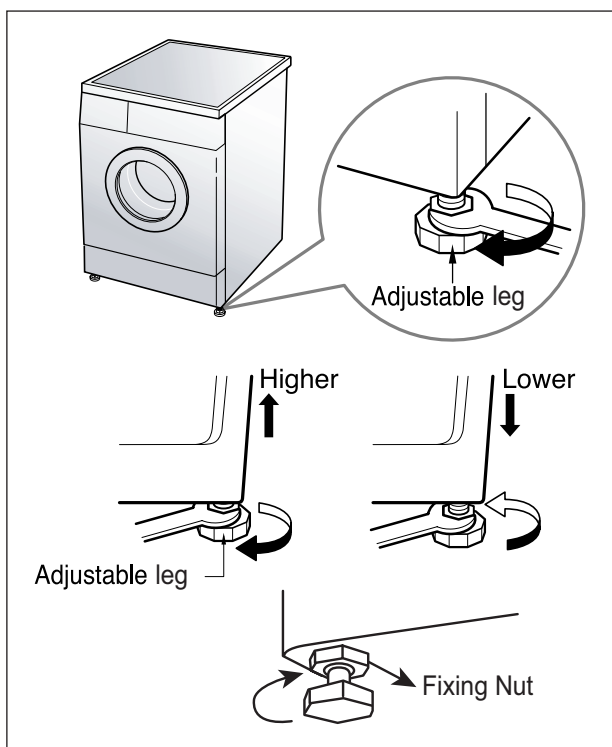
- The drain hose should not be placed higher than 100cm above the floor.
- Proper securing of the drain hose will protect the floor from damage due to water leakage.
- When the drain hose is too long, do not force back in to the washer. This cause abnormal noise.

■ Level adjustment

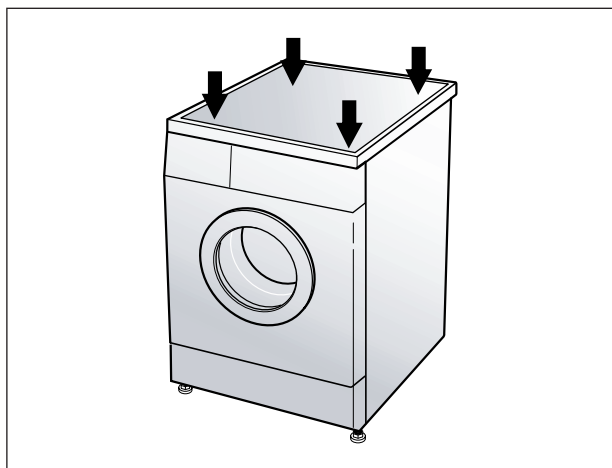


1. The level adjustment of the washing machine prevents excessive noise and vibration.
Install the washing machine on a solid and even floor surface, if possible, in a corner of the room.

Note: The wooden floor may cause excessive vibration.



2. If the floor is uneven, adjust the adjustable leg as the following.
(Do not insert pieces of wood etc. under legs.)
 - Please check whether there is any gap between four adjustable legs and the floor.
 - Turn adjustable legs by the enclosed spanner in order to adjust the level of the washing machine.
 - Make it sure that there is no swaying of the washing machine and check that the washing machine is even completely. (use a spirit level)
 - After the level adjustment is finished, turn fixing nuts up tightly so that the washing machine maintains the adjustment.



- ✳ Diagonal Check
When pushing down the edges of the washing machine top plate diagonally, the machine should not move up and down at all.
(Please, check both of two directions)
If machine rocks when pushing the machine top plate diagonally, adjust legs again.

✱ Before cleaning the washer interior, unplug the electrical power cord avoid electrical shock hazards.

■ Cleaning your washer

1. Exterior

Proper care of your washer can extend its life.

The outside of the machine can be cleaned with warm water and a neutral non abrasive household detergent.

Immediately wipe off any spills. Wipe with damp cloth.

Try not to hit surface with sharp objects.

- Do not use methylated spirits, diluents or similar products.

2. Interior

Dry around the washer door opening, flexible gasket and door glass.

Run washer through a complete cycle using hot water.

Repeat process if necessary.

- Remove hard water deposits using only cleaners labeled as washer safe.

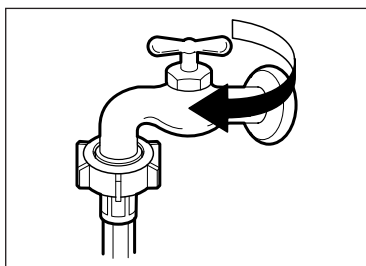
■ Cold condition

If the washer is stored in an area where freezing may occur or moved in freezing temperature, follow these instructions to prevent damage to the washer.

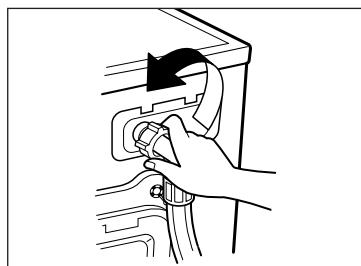
1. Turn off water supply tap.
2. Disconnect hoses from water supply and drain water from hoses.
3. Plug electrical cord into a properly grounded electrical outlet.
4. Add 1 gallon(3.8L) of nontoxic recreational vehicle(RV) antifreeze into empty wash drum.
Close the door.
5. Set spin cycle and let washer spin for 1 minute to drain out all water.
6. Unplug electrical power cord, dry the drum interior, and close the door.
7. Remove detergent case and dry excessive water from the compartments.
8. Store washer in an upright position.
9. To remove antifreeze from washer after storage, run empty washer through a complete cycle using detergent. Do not add wash load.

■ Cleaning the water inlet filter

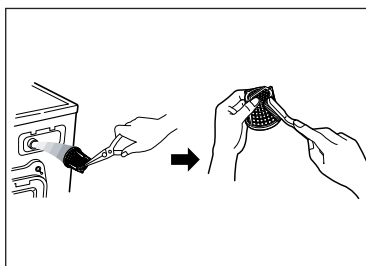
- "IE" error message will blink on the control panel when water does not enter the detergent drawer.
- If your water is very hard or contains traces of lime deposit, the water inlet filter may become clogged.
- It is therefore a good idea to clean it from time to time.



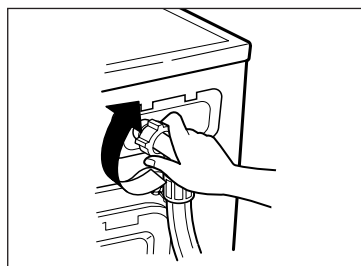
1. Turn off the water tap.



2. Unscrew the water inlet hose.



3. Clean the filter using a hard bristle brush.



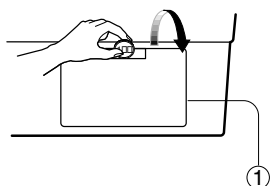
4. Tighten up the inlet hose.

■ Cleaning the drain pump filter

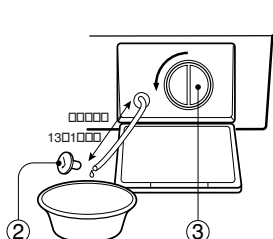
- The drain filter collects threads and small objects left in the laundry.
- Check regularly that the filter is clean to ensure smooth running of your machine.

CAUTION Be careful when draining if the water is hot.

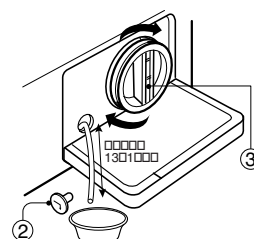
1. Open the lower cover(①) by using a coin. Turn the cap hose(②) to pull out the hose. Pull out the hose maximally. (About 13~14cm.)



2. Unplug the cap hose(②), allowing the water to flow out. At this time use a vessel to prevent water flowing on to the floor. When water does not flow any more, turn the pump filter(③) open to the left.



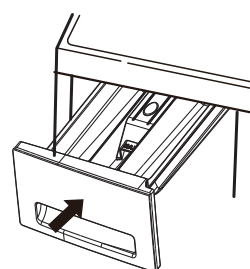
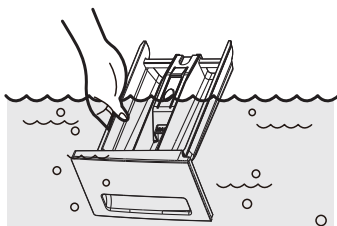
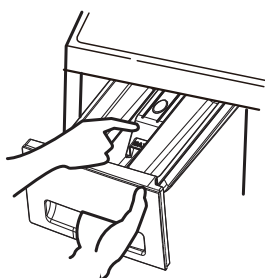
3. Remove any foreign material from the pump filter(③). After cleaning, turn the pump filter clockwise and insert the cap hose(②) to the original place. Close the lower cover.



■ Cleaning the detergent case

✱ After a while detergents and fabric softeners leave a deposit in the detergent case.

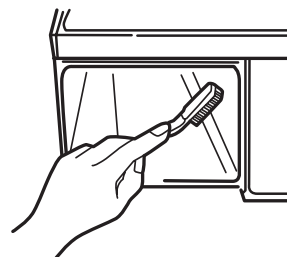
- It should be cleaned from time to time with a jet of running water.
- If necessary it can be removed completely from the machine by pressing the catch downwards and by pulling it out.
- To facilitate cleaning, the upper part of the fabric softener compartment can be removed.



Inlet box recess

✱ Detergent can also accumulate inside the recess which should be cleaned occasionally with an old toothbrush.

- Once you have finished cleaning, replace the detergent case and run a rinse cycle without laundry.



■ Cleaning the washing drum

- If you live in a hard water area, limescale may continuously build up in places where it cannot be seen and thus not easily removed.
 - Over time the build up of scale clogs appliances, and if it is not kept in check these may have to be replaced.
 - Although the washing drum is made of stainless steel, specks of rust can be caused by small metal articles (paper clips, safety pins) which have been left in the drum.
 - If you use descaling agents, dyes or bleaches, make sure they are suitable for washing machine use.
- ✱ Descaler may contain chemicals that may damage part of your washing machine.
- ✱ Remove any spots with a stainless steel cleaning agent.
- ✱ Never use steel wool.

4. DIRECTION FOR DISASSEMBLY

DOOR LOCK SWITCH

1) Open the door and remove the gasket clamp.



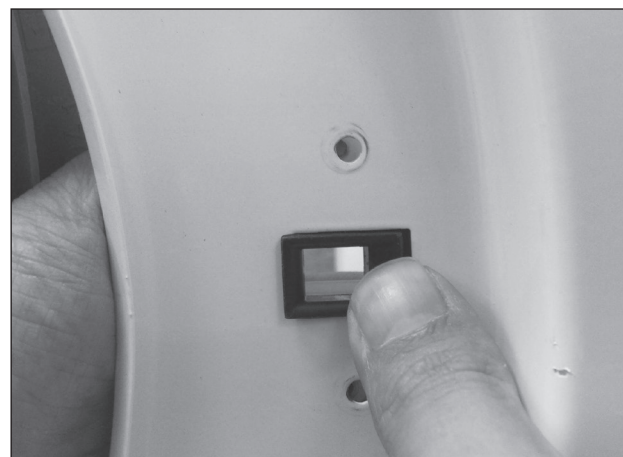
2) Remove the gasket from the front cabinet.



3) Remove the door lock switch.



4) Remove two screws, and push the door lock switch to the right direction.



HEATER AND THERMISTOR

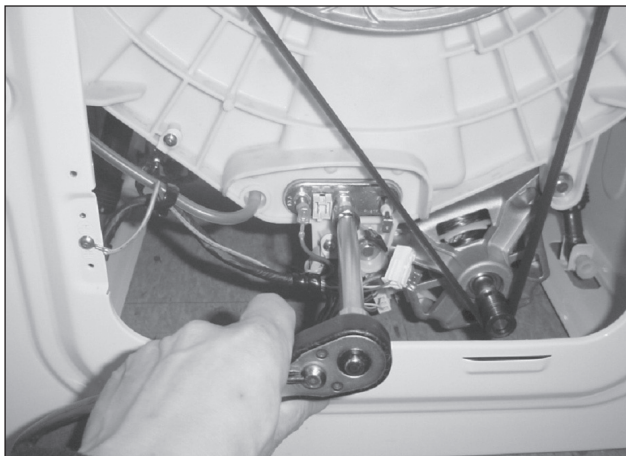
1) Remove four screws on the back cover, and remove the back cover.



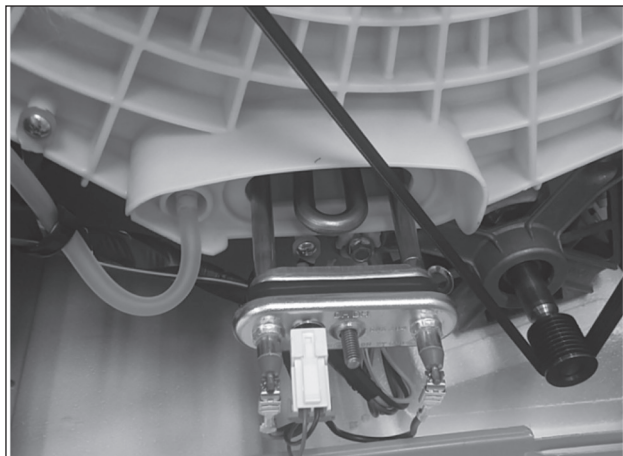
2) Remove connectors and the earth terminal.



- 3) Remove the nut by using a box wrench, and remove the earth terminal.



- 4) Loosen the nut by using a box wrench, and pull out the heater.

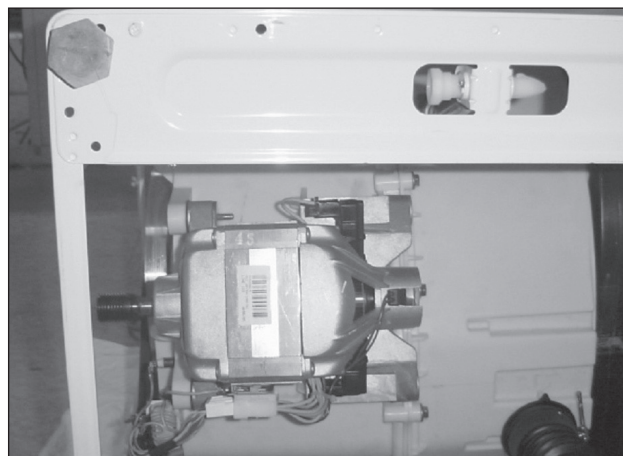


UNIVERSAL MOTOR

- 1) Remove the belt from the pulley.



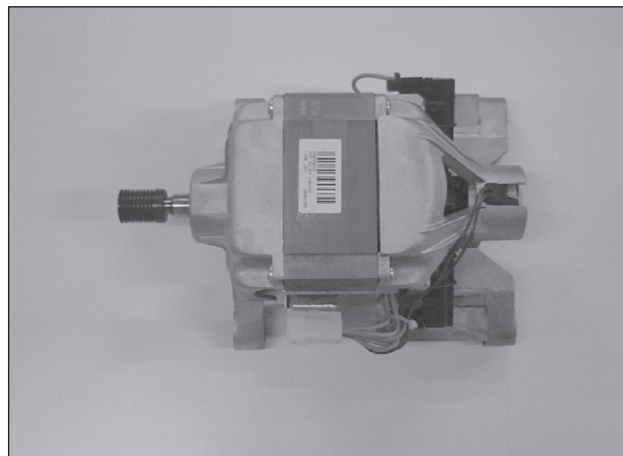
- 2) Lay the right side of the washer on the floor, and remove the connector.



- 3) Remove two bolts and two nuts mounting the motor by using a box wrench.



- 4) Remove the motor from the tub.



BLDC MOTOR

1) Remove the nut using the 17mm hex wrench.



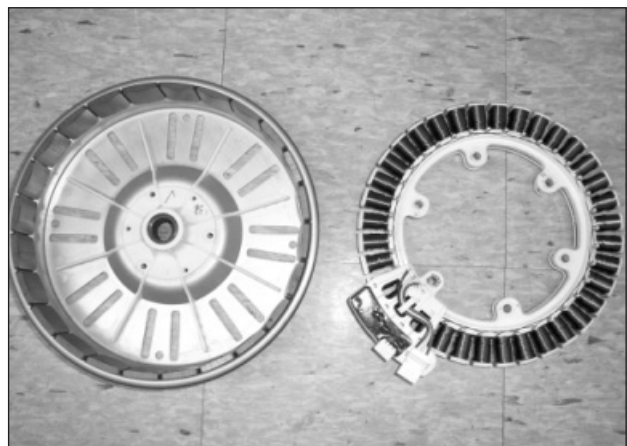
2) Pull out the ROTOR.



3) Remove six screws using the 10mm hex wrench and connectors from the STATOR.



4) Separate the STATOR from the TUB.

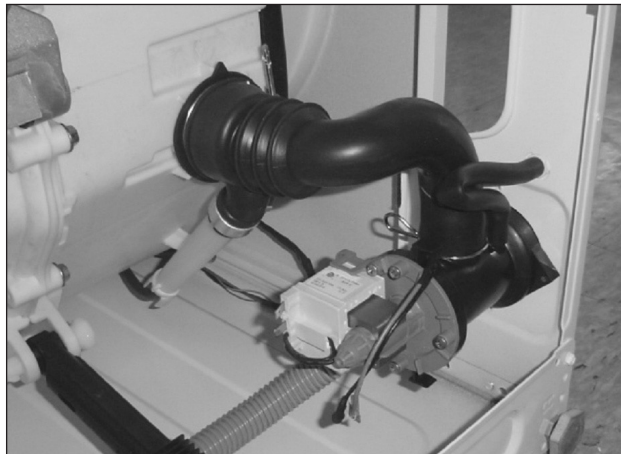


DRAIN PUMP

1) Lay the right side of the washer on the floor, and remove the lower panel by pressing six snap fits.



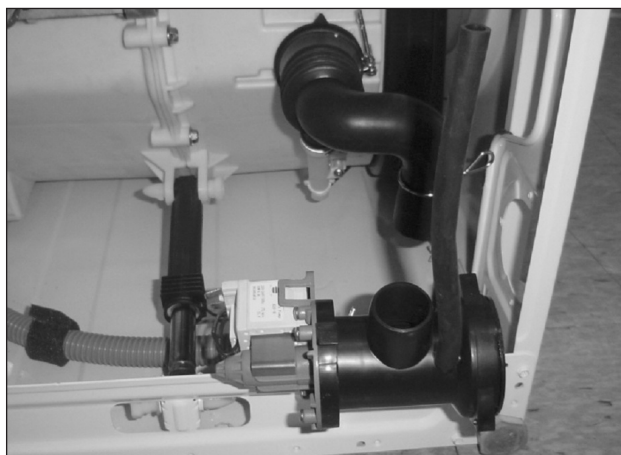
2) Remove connectors.



3) Remove the screw, and remove the drain pump from the lower frame.



4) Remove the drain hose.



5) Remove the inner drain hose, and remove the drain pump.

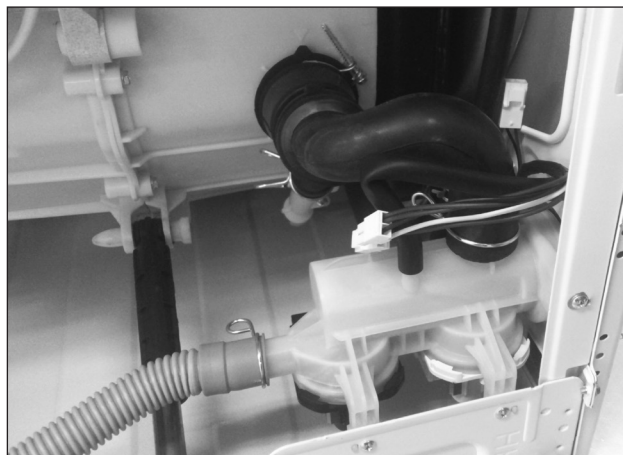


DRAIN PUMP

1) Lay the right side of the washer on the floor.



2) Remove connectors.



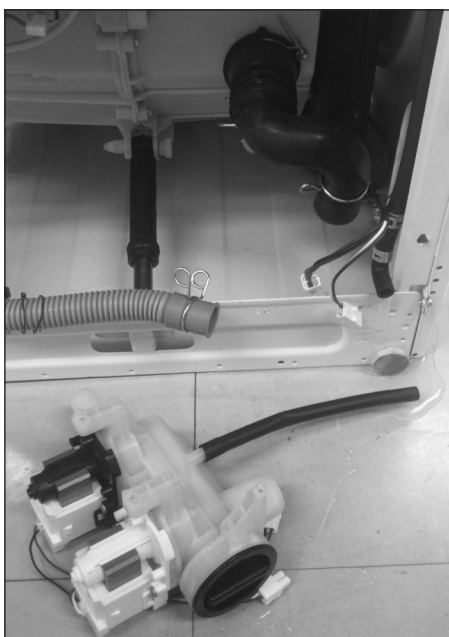
3) Remove the screws.



4) Remove the drain hose and the hose water supply.

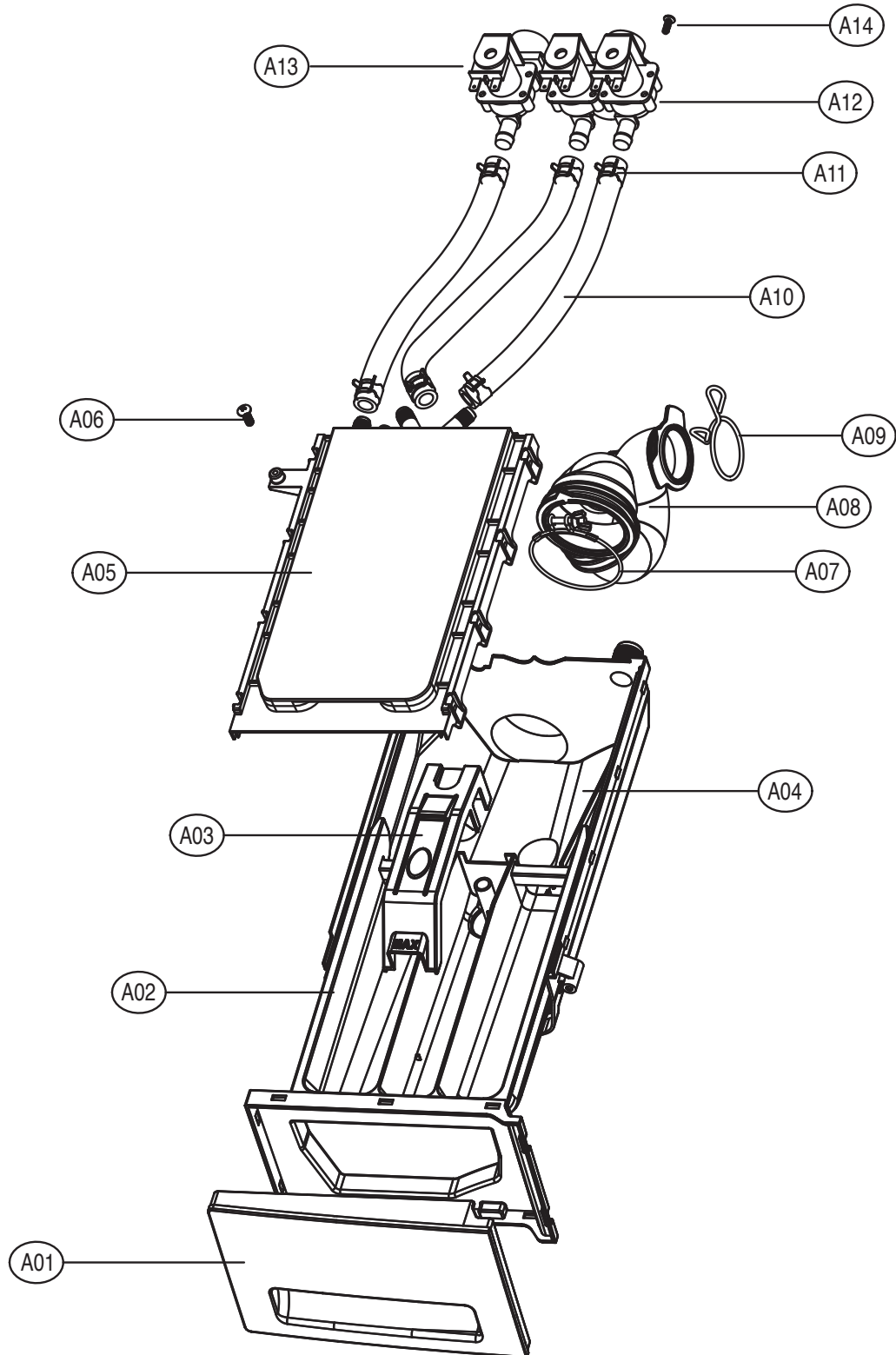


5) Remove the inner drain hose, and remove the drain pump.



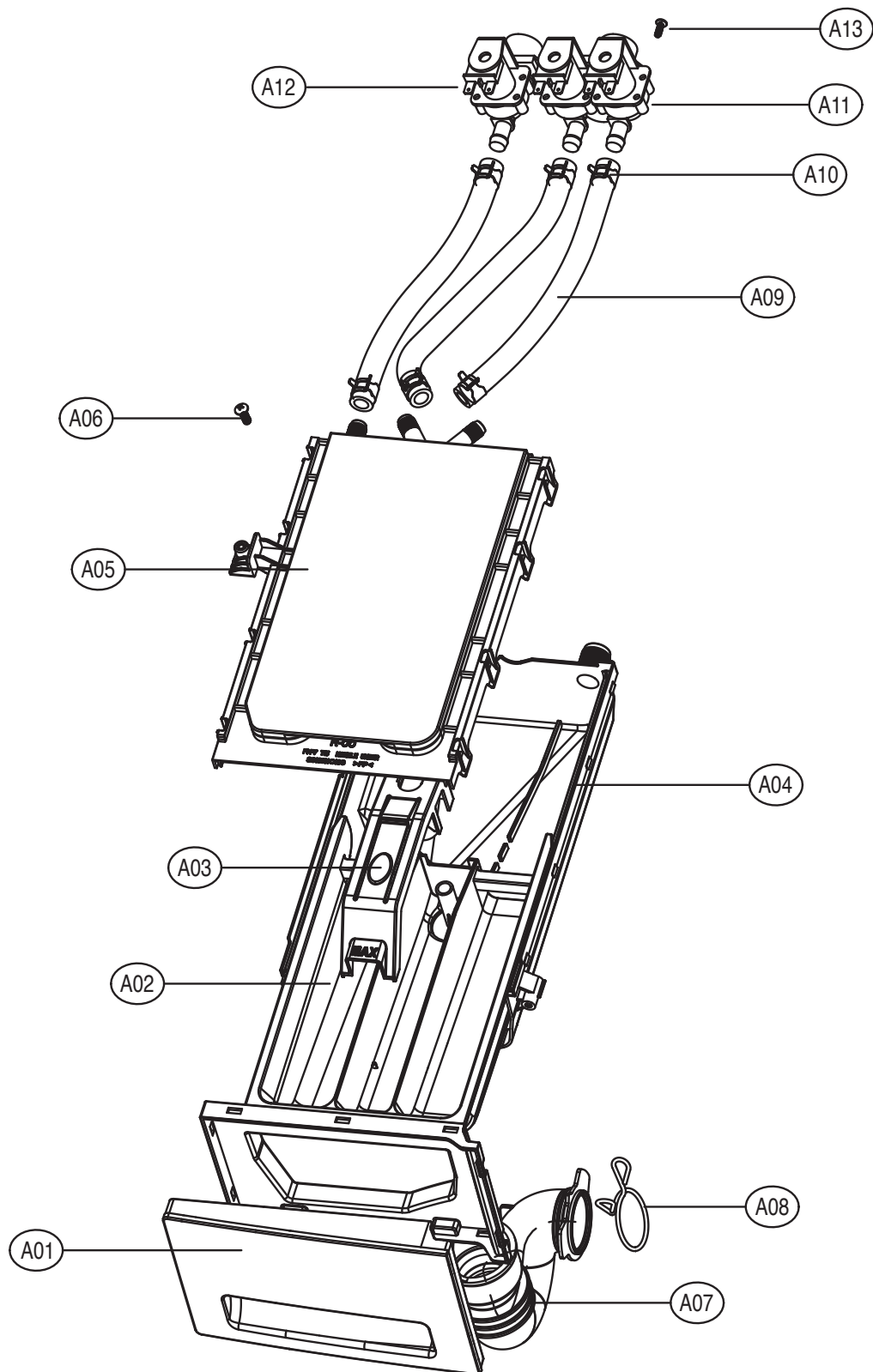
5. EXPLODE VIEW AND PARTS LIST

■ INLET BOX AS (DD MOTOR TYPE)



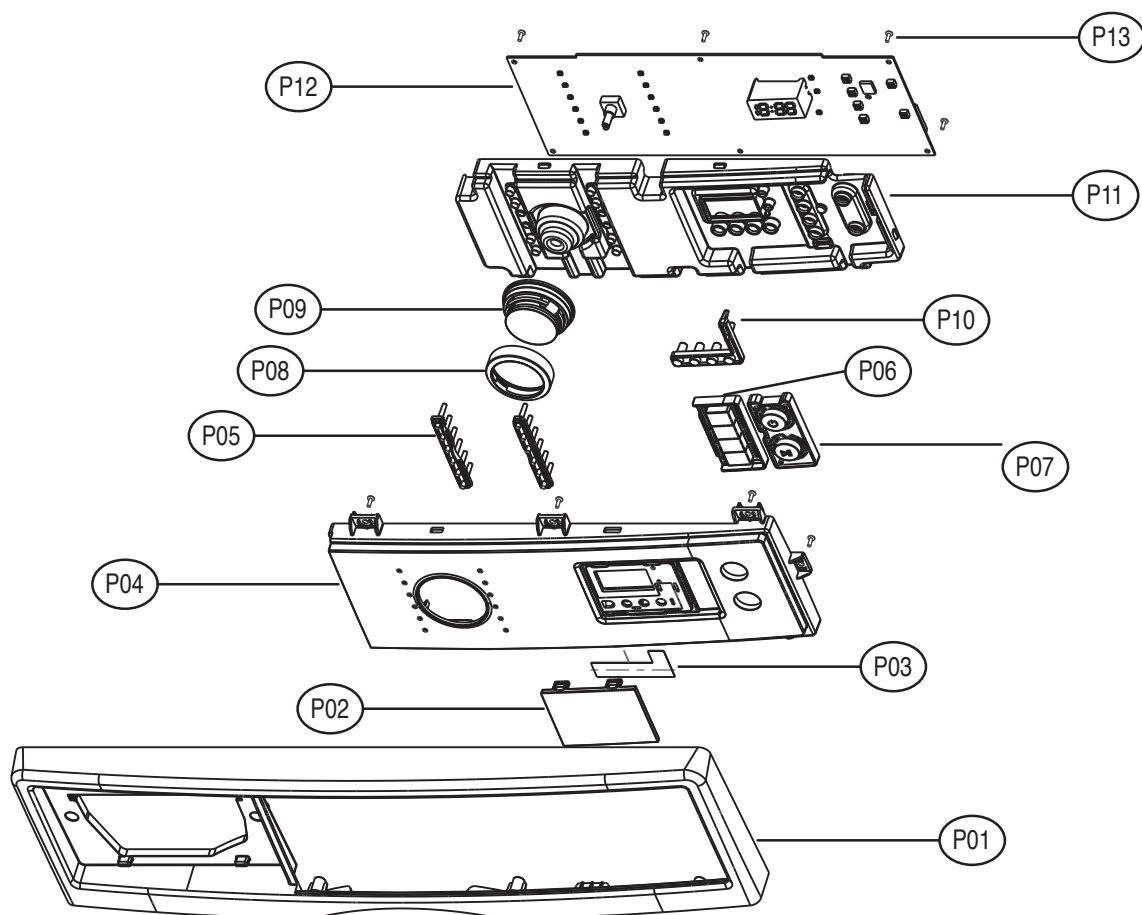
NO.	PART NAME	PART CODE	SPECIFICATION	Q'TY	REMARK
A01	CASE HANDLE	36110-0063300	HIPS, D-H'S	1	
A02	CASE DETERGENT	36110-0063400	PP, D-H'S	1	
A03	CAP SOFTENER	36109-0001800	PP	1	
A04	INLET BOX	36176-0000100	PP	1	
A05	NOZZLE AS	36183-0001001	NOZZLE AS DWD-800W, COLD ONLY	1	
A05-1	NOZZLE *T	36183-0000800	PP	1	
A05-2	NOZZLE *U	36183-0000901	PP	1	
A06	SCREW TAPPING	90007-0007400	T2S TRS 4X20 MFZN	1	
A07	CLAMP AS	36111-0000700	ID=60, WIRE+GUIDE+BOLT+NUT	1	
A08	HOSE INLET	36131-0004500	EPDM U-TRAP	1	
A09	CLAMP HOSE *I	36111-0000200	HSW3, D2.6, MFZN, ID=38	1	
A10	HOSE WATER SUPPLY	36131-0014801	EPDM, ID9.5, OD14.5, L=225	2(3)	COLD(+HOT)
A11	CLAMP HOSE	36111-0002400	100H, ID=13.8 W=10.0 0.9T	4(6)	COLD(+HOT)
A12	VALVE INLET AS	66150-0005200	220-240V 2-WAY PP/BRACKE	1	COLD
A13	VALVE INLET	66150-0005100	220-240V,50/60Hz, 1WAY	1	HOT
A14	SCREW TAPTITE	90007-0008900	TT3 TRS 4X8 MFZN	4	

■ INLET BOX AS (UNIVERSAL MOTOR TYPE)



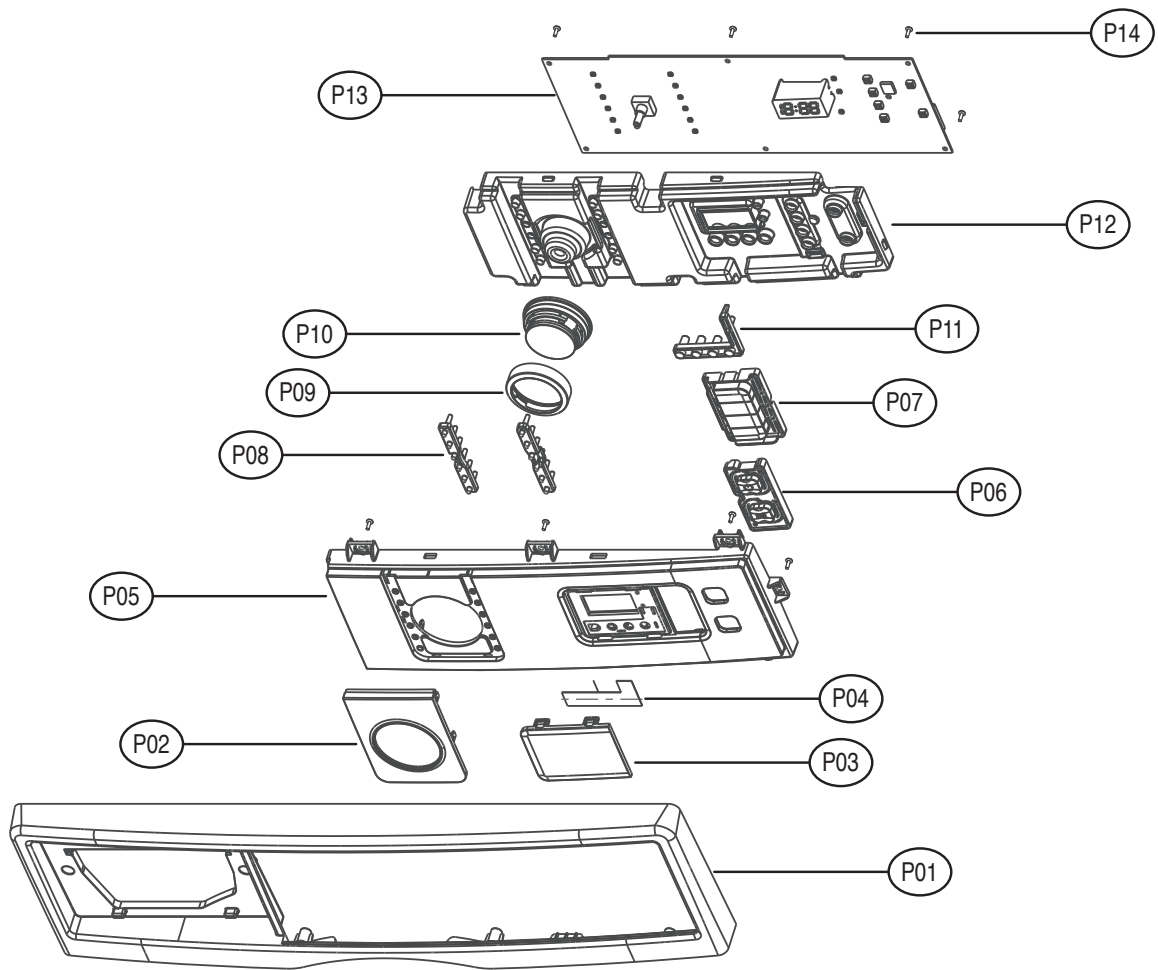
NO.	PART NAME	PART CODE	SPECIFICATION	Q'TY	REMARK
A01	CASE HANDLE	36110-0063301	HIPS, D-H'S	1	
A02	CASE DETERGENT	36110-0063400	PP, D-H'S	1	
A03	CAP SOFTENER	36109-0001800	PP	1	
A04	INLET BOX	36176-0002900	PP	1	
A05	NOZZLE AS	36183-0001001	NOZZLE AS DWD-800W, COLD ONLY	1	
A05-1	NOZZLE *T	36183-0000800	PP	1	
A05-2	NOZZLE *U	36183-0000901	PP	1	
A06	SCREW TAPPING	90007-0007400	T2S TRS 4x20 MFZN	1	
A07	HOSE INLET	36131-0009800	EPDM U-TRAP	1	
A08	CLAMP HOSE *I	36111-0000200	HSW3, D2.6, MFZN, ID=38	1	
A09	HOSE WATER SUPPLY	36131-0014801	EPDM, ID9.5, OD14.5, L=225	2(3)	COLD(+HOT)
A10	CLAMP HOSE	36111-0002400	100H, ID=13.8 W=10.0 0.9T	4(6)	COLD(+HOT)
A11	VALVE INLET AS	66150-0005200	220-240V 2-WAY PP/BRACKE	1	COLD
A12	VALVE INLET	66150-0005100	220-240V,50/60Hz, 1WAY	1	HOT
A13	SCREW TAPTITE	90007-0008900	TT3 TRS 4X8 MFZN	4	

■ PANEL FRONT AS(DWD-HC123**/HB143**/GN-123**)



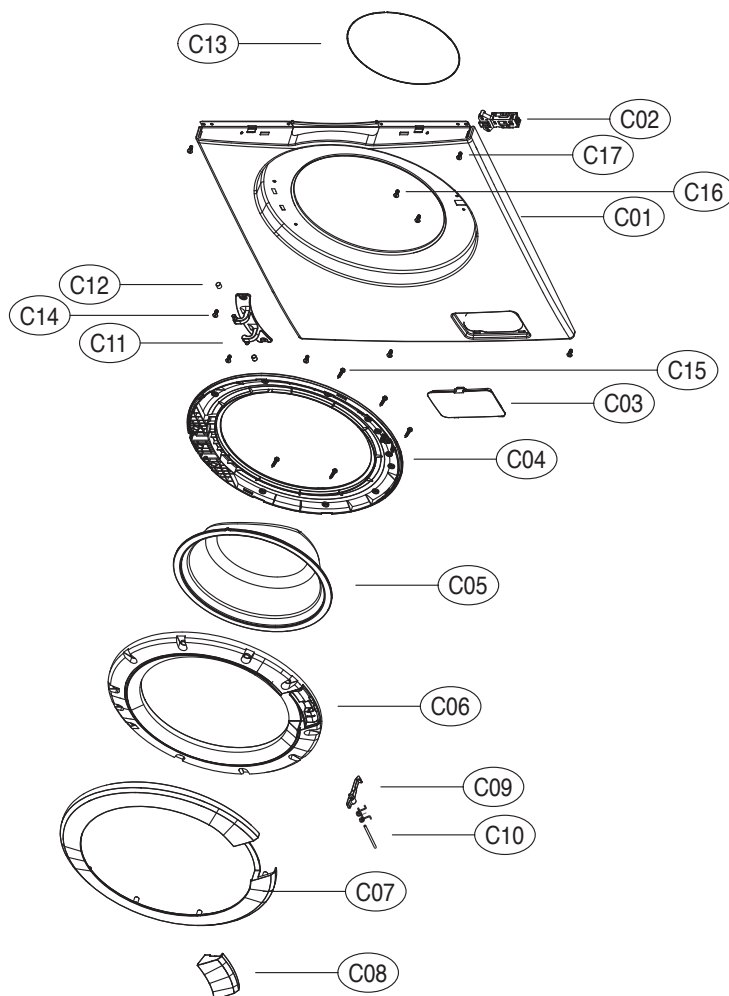
No.	PART NAME	PART CODE	SPECIFICATION	Q'TY	REMARK
P01	DECO PANEL *F	36115-0020301	ABS, HG0760/G62156/GY-349A, PERSIA	1	
P02	WINDOW DISPLAY	36151-0011100	ABS, LG/558A/8L720/GY9901AT, PERSIA 7kg, H3	1	
P03	DECORATOR FILM	36167-0070000	PE, T0.4X66.6X30.6, PERSIA, Both Tape	1	
P04	PANEL *F	36139-0056501	ABS, HG0760/G62156/GY349A, SPRAY, PRINT PERSIA, UNI, 7kg, H3	1	
P05	WINDOW COURSE LED	36151-0011200	ABS, TR558/8H323/GY-5503AT, PERSIA 7kg, H3	1	
P06	BUTTON OPTION	36159-0022300	ABS, HG0760/G62156/GY-349A, PERSIA 7kg, H3	1	
P07	BUTTON P.S	36159-0022201	ABS, HG0760/G62156/GY-349A, PERSIA, 7kg, H3	1	
P08	DECO KNOB DIAL	36115-0012401	ABS (GY-5104A) D-H2's	1	
P09	KNOB DIAL	36132-0010602	ABS, HG0760/G62156/GY-349A	1	
P10	WINDOW FUNCTION	36151-0011300	ABS, TR558/8H323/GY-5503AT, PERSIA, H3, H4	1	
P11	CASE PCB *F	36110-0063200	HIPS/HEP/F-744/1001/WHT/V0, PERSIA, H3, H4	1	
P12	PCB SET ASSY	40302-1073300	PERSIA UNI, EURO, 7K, 220V, 1200, C, BB, PP	1	
		40302-1084300	H3-H4,UNI,UAE,7K,220V,1200,C,BB,PP,CP	1	
P13	SCREW TAPPING	90007-0006600	T2S TRS 4X14 MFZN	6	

■ PANEL FRONT AS(DWD-HC124**/HB144**)



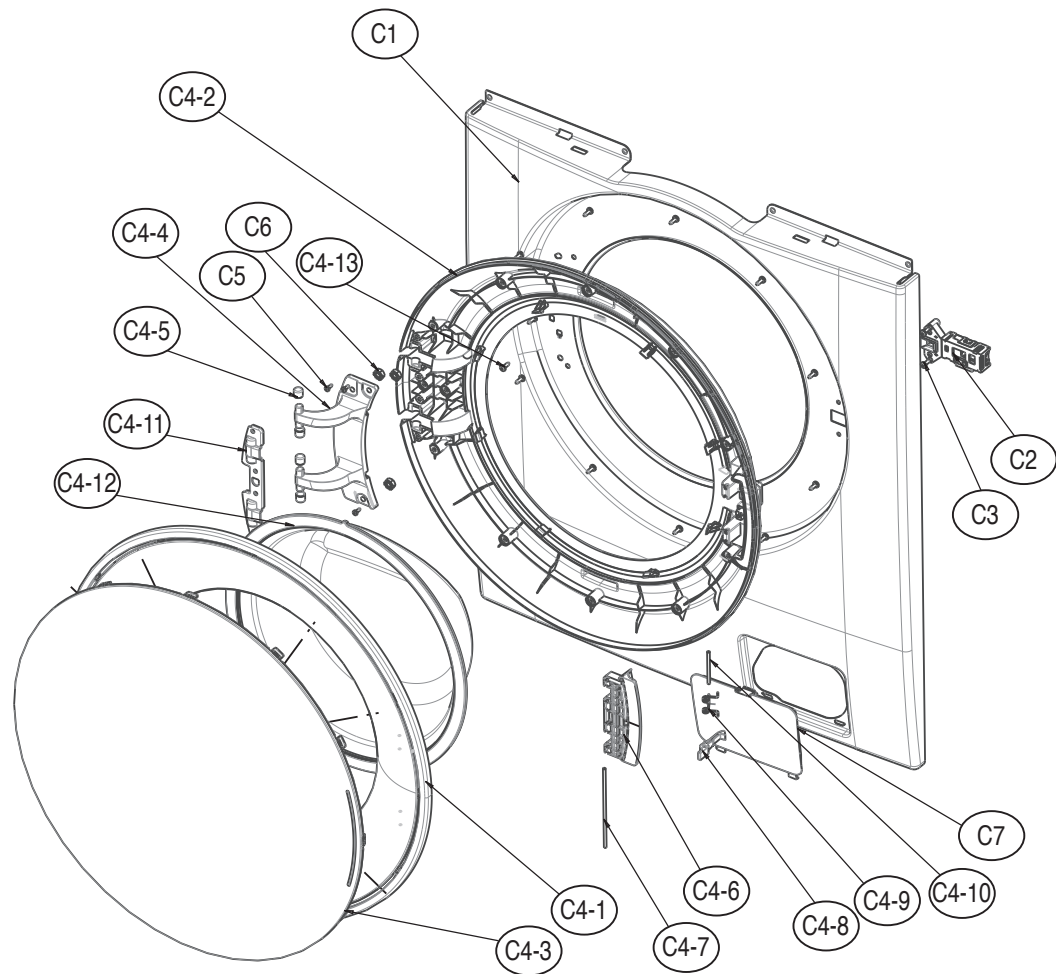
No.	PART NAME	PART CODE	SPECIFICATION	Q'TY	REMARK
P01	DECO PANEL *F	36115-0020300	ABS, HG0760/W94006/WH-1802A, PERSIA	1	
P02	WINDOW COURSE	36151-0011700	ABS, TR558A/8L720/GY-9901AT, PERSIA, 8kg, H4	1	
P03	WINDOW DISPLAY	36151-0011500	ABS, LG/558A/8L720/GY9901AT, PERSIA, 8kg, H4	1	
P04	DECORATOR FILM	36167-0070000	PE, T0.4X66.6X30.6, PERSIA, Both Tape	1	
P05	PANEL *F	36139-0056600	ABS, HG0760/W94006/WH-1802A, SILK PRINT, PERSIA, 8kg, H4	1	
P06	BUTTON P.S	36159-0022700	ABS, HG0760/W94006/WH-1802A, PERSIA, 8kg, H4	1	
P07	BUTTON OPTION	36159-0022800	ABS, HG0760/K2937/BK084A, PERSIA, 8kg, H4	1	
P08	WINDOW COURSE LED	36151-0011600	ABS, TR558/8H323/GY-5503AT, PERSIA, 8kg, H4	1	
P09	DECO KNOB DIAL	36115-0012400	ABS+AL, D-H2	1	
P10	KNOB DIAL	36132-0010600	ABS, HG0760/K2937/BK084A, PERSIA, H3,H4	1	
P11	WINDOW FUNCTION	36151-0011300	ABS, TR558/8H323/GY-5503AT, PERSIA, H3, H4	1	
P12	CASE PCB *F	36110-0063200	HIPS/HEP/F-744/1001/WHT/V0, PERSIA, H3,H4	1	
P13	PCB FRONT ASSY	40302-1074100	PERSIA DD FRONT,EURO,220V,1400,8K,C,N-CP	1	
P14	SCREW TAPPING	90007-0006600	T2S TRS 4X14 MFZN	12	

■ CABINET FRONT AS_1ST



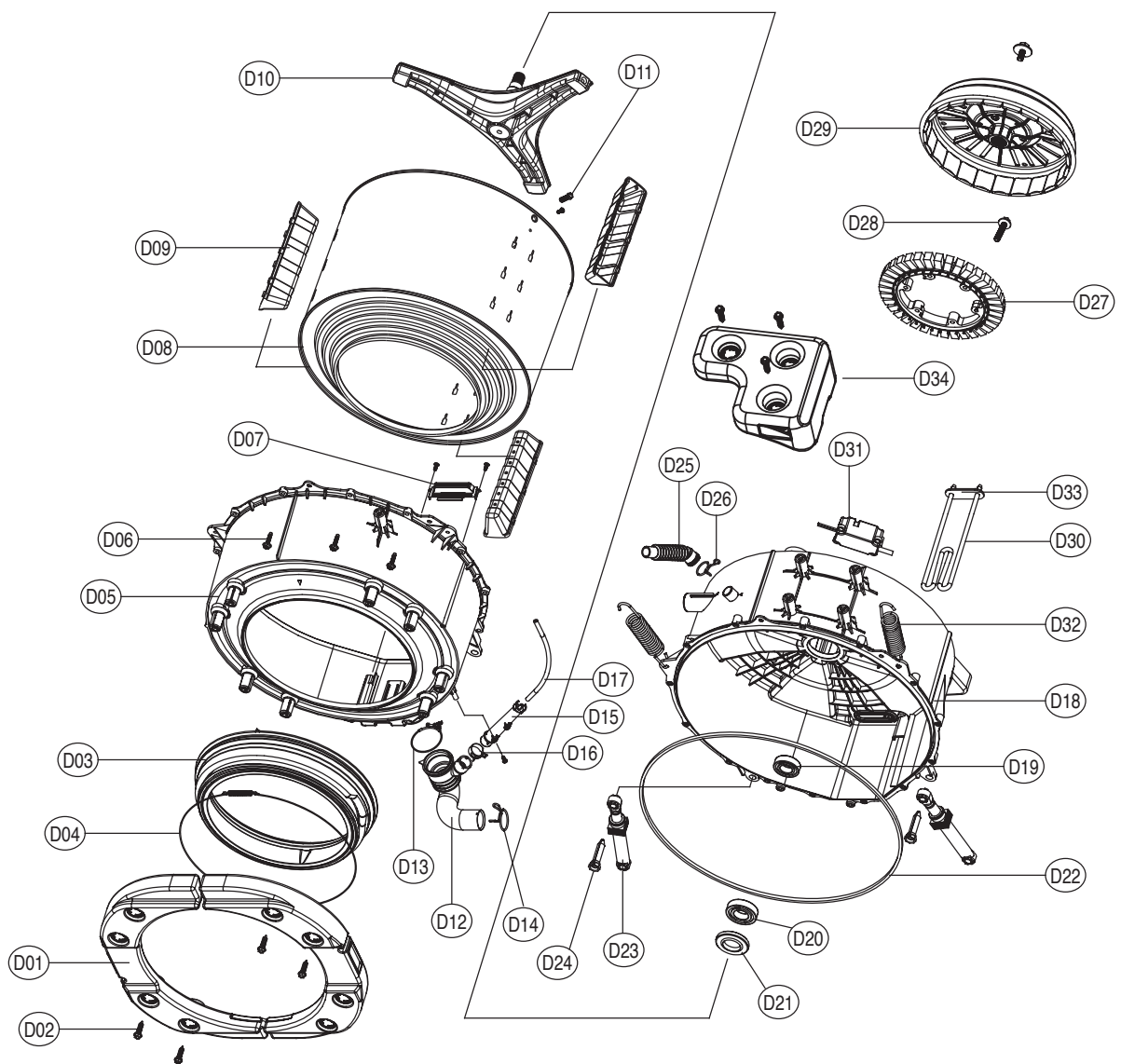
No.	PART NAME	PART CODE	SPECIFICATION	Q'TY	REMARK
C01	CABINET *F	36108-0004200	CABINET FRONT SUB BASE AS D-H'S CABINET F+BRACKET	1	
C02	SWITCH DOOR LOCK	66148-0001300	SWITCH DOOR LOCK CONCORE, KM, 3P/ 250V 16A BI-METAL	1	
C03	COVER PUMP	36113-0007004	ABS, HG0760/W94006/WH-1802A, PERSIA	1	
C04	FRAME DOOR *I	36121-0010201	PP, H's, FRAME DOOR *I	1	
C05	DOOR GLASS	36116-0018100	GLASS PI300, M,F	1	
C06	FRAME DOOR *O	36121-0010301	ABS, BK-084A, PERSIA PJT, H's 1st Door	1	
C07	DECO FRAME DOOR	36115-0009101	ABS, D-H'S,	1	
C08	HANDLE DOOR	36125-0003901	ABS, D-H'S	1	
C09	HOOK DOOR	36130-0001100	ZNDC, D-H'S	1	
C10	PIN HANDLE	36184-0000202	PIN HANDLE SUS304, D3, L53	1	
	SPRING HOOK	36145-0006400	SPRING HOOK D-H1	1	
C11	HINGE DOOR	36128-0001600	ALDC, D-H'S	1	
C12	CAP HINGE DOOR	36109-0001700	POM	2	
C13	CLAMP DOOR AS	36111-0002000	HSW3, D1.4, GS, M/F	1	
C14	SCREW TAPPING	90007-0002700	ZN-NI, F/L M/S(SE) 5*12	2	
C15	SCREW TAPPING	90007-0005100	T1S FLT 4*20 STS430 NATURAL	13	
C16	SCREW TAPPING	90007-0006400	T2S TRS 4X14 STS	2	
C17	SCREW TAPPING	90007-0006600	T2S TRS 4X14 MFZN	5	

■ CABINET FRONT AS_2ND



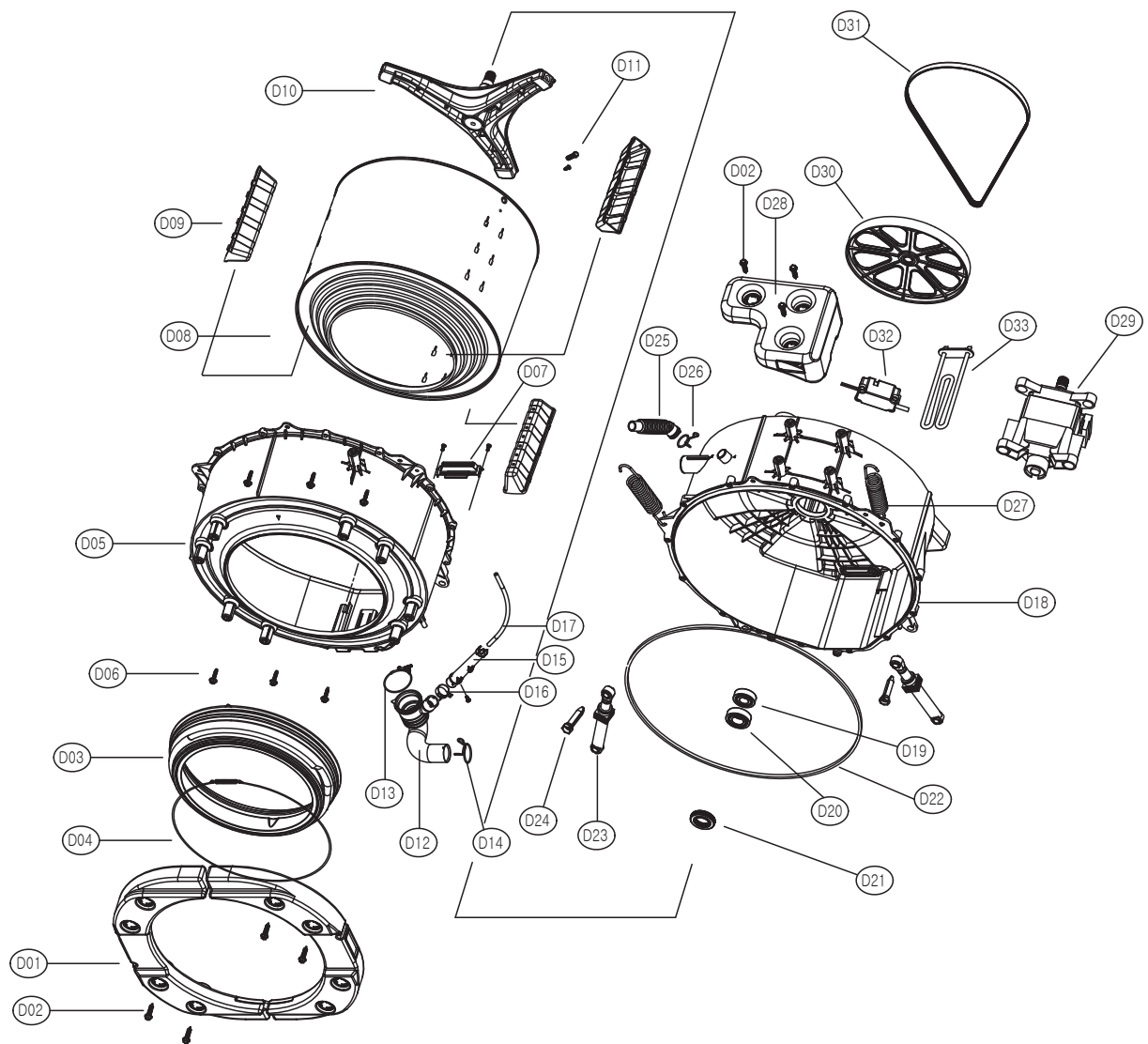
NO	PART NAME	CODE	SPECIFICATION	Q'TY	REMARK
C1	CABINET *F	36108-0004208	T0.7,H-3,H-4,BIG DOOR(D-H'S착탈)	1	
C2	SWITCH DOOR LOCK	66148-0001300	CONCORE,KM,3P/250V 16A BI-METAL	1	
C3	SCREW TAPPING	90007-0006400	T2S TRS 4X14 MFZN,SUS	2	
C4	DOOR AS	36116-0034500	BIG DOOR_BLACK	1	
C4-1	FRAME DOOR *O	36121-0021500	489.6 x 50.5	1	
C4-2	FRAME DOOR *I	36121-0021600	489.4 x 50.4	1	
C4-3	PROTECTOR GLASS	36185-0005600	469.4 x 30.1	1	
C4-4	HINGE DOOR P	36128-0003200	45.9 x 113.3	1	
C4-5	CAP HINGE	36109-0009700	10 x 8.5	4	
C4-6	HANDLE DOOR	36125-0009500	BIG DOOR_	1	
C4-7	PIN HANDLE	36184-0000900	D=3.0 L=106	1	
C4-8	HOOK DOOR	36130-0003300	15 x 43.5	1	
C4-9	SPRING HOOK	36145-0006400	D-H1	1	
C4-10	HOOK SHAFT	36130-0000500	D=3.0 L=43 TEMPERING	1	
C4-11	HINGE BRACKET P	36128-0003400	T1.2 X 175.0 X 38	1	
C4-12	DOOR GLASS	36116-0032300	PI 361 EURASIA	1	
C4-13	SCREW TAPPING	90007-0006400	T2S TRS 4X14 MFZN,SUS	16	
C5	SCREW TAPPING	90007-0002700	F/L M/S(SE) 5*12	3	
C6	NUT HEX	90003-0001700	F/L M/S(SE) 5*12	3	
C7	COVER PUMP	36113-0007001	ABS	1	

■ TUB ASS'Y (DD TYPE)



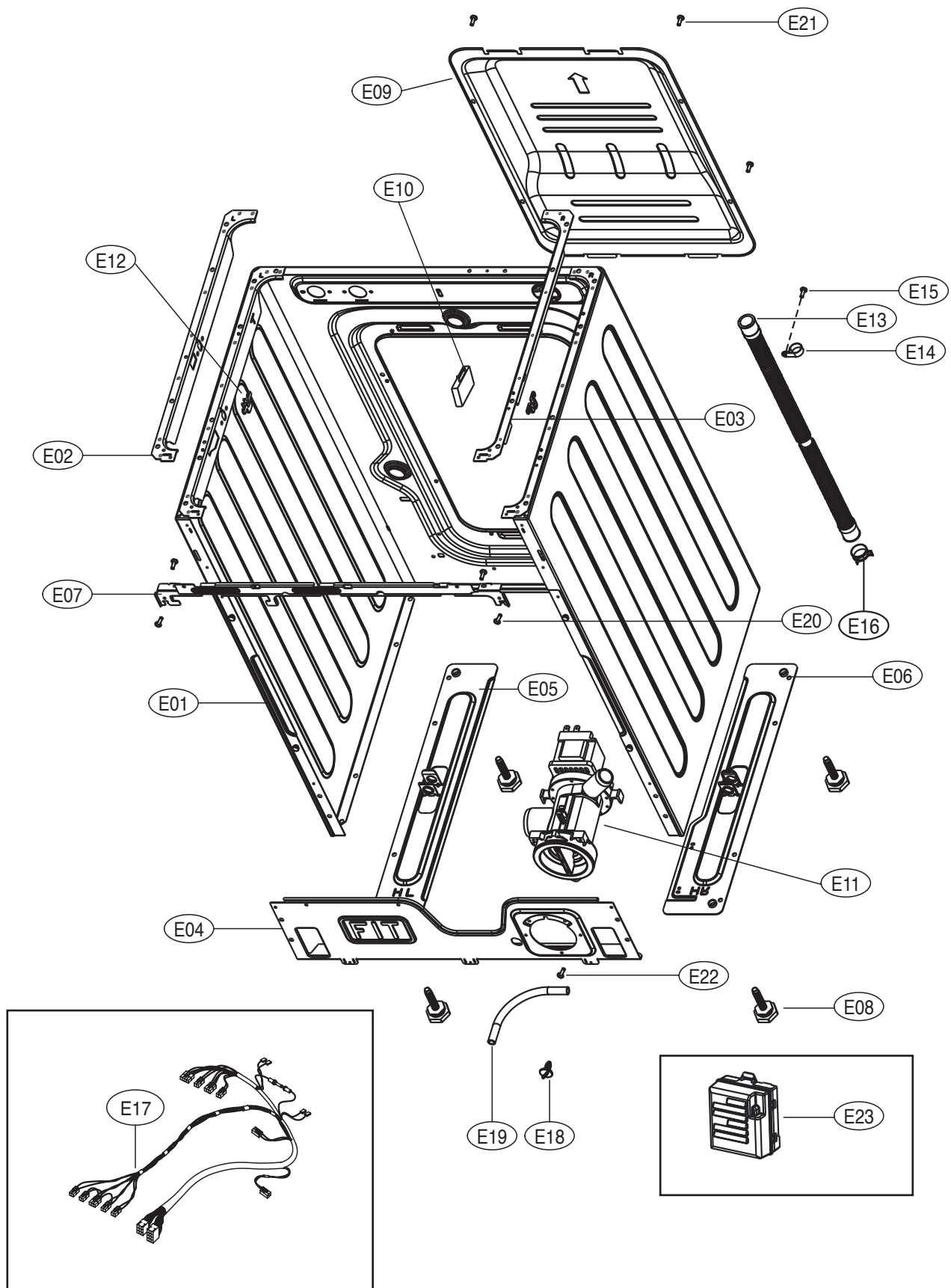
No.	PART NAME	PART CODE	SPECIFICATION	Q'TY	REMARK
D01	BALANCER WEIGHT AS	36154-0001702	BALANCER WEIGHT F L/R D-FB,FC'S 6.5KG	2	
D02	SPECIAL SCREW	36198-0002900	SPECIAL SCREW SWCH 8.5X30	11	
D03	GASKET	36123-0001300	GASKET EPDM	1	
D04	CLAMP GASKET AS	36111-0001801	CLAMP GASKET AS HSW3, F'S WIRE L1060	1	
D05	TUB *F	36196-0002501	TUB *F FRPP FH7304GM	1	
D06	SPECIAL SCREW	36198-0003200	SPECIAL SCREW SWCH 6.5X30	14	
D07	FIXTURE HEATER	36119-0000701	FIXTURE HEATER SUS 304 0.7T 440X45	1	
D08	DRUM SUB AS	36170-0003802	STAR DRUM, CENTER GS, PERSIA	1	
D09	LIFTER WASH	36179-0000502	LIFTER WASH PP D-F'S NANO	3	
D10	SPIDER AS	36190-0000403	SPIDER AS 1400RPM, SERRATION	1	
D11	SPECIAL SCREW	36198-0003000	STS 430 8X25	3	
D12	HOSE DRAIN	36131-0004600	HOSE DRAIN EPDM	1	
D13	CLAMP AS	36111-0000701	CLAMP AS ID=61, WIRE+GUIDE+BOLT, GS	1	
D14	CLAMP HOSE *I	36111-0000200	CLAMP HOSE *I HSW3, D2.6, MFZN D38	1	
D15	AIR TRAP	36152-0000700	AIR TRAP PP	1	
D16	CLAMP HOSE	36111-0001901	CLAMP HOSE DI=26	1	
D17	HOSE AIR	36131-0005100	HOSE AIR ID=4,OD=8, L=580	1	
D18	TUB *R	36196-0002601	TUB REAR FRPP FH7304GM D-FD	1	
D19	BEARING *O	36155-0000400	BEARING OUTER F,L,E,U,6205ZZ	1	
D20	BEARING *I	36155-0000300	BEARING INNER F,L,E,U,6206ZZ	1	
D21	SEAL WATER	36189-0000800	WATER SEAL NBR	1	
D22	GASKET TUB	36123-0001500	GASKET TUB EPDM L1600	1	
D23	DAMPER FRICTION	36166-0000302	120N CIMA ST=170-260 DL=197.5 LOW NOISE	2	
D24	DAMPER PIN	36166-0000400	DAMPER PIN AKS D=14.5	2	
D25	HOSE VENT	36131-0004400	HOSE VENT EPDM	1	
D26	CLAMP HOSE	36111-0001901	CLAMP HOSE DI=26	1	
D27	MOTOR BLDC STATOR	66182-0003608	AL,DON1000W 18T 36POLE,NMT,PBT CLASS B,L/W	1	
D28	SPECIAL BOLT AS	36198-0003301	(STATOR) SWCH M8+SILOCK,35MM,DONGSEO	6	
D29	MOTOR BLDC ROTOR	66182-0003702	UNIT ROTOR BLDC DON1000W SR-FERRITE12,18T,NMT	1	
D30	HEATER WASH	66127-0001304	230V 2000W DHDH-600XY INCOLOY800 FUSE 2EA SAUDI	1	
D31	UNIT BUBBLE PUMP AS	66149-0006801	220-240V DBK-240DB RP CHSHION	1	
D32	SPRING SUSPENSION	36145-0002800	D6K FU,D=3.2 L=158,K=0.554 SILVER COATING	2	
D33	THERMISTOR WASH	66194-0000100	UL. R25=11.981K R80=1.704K	1	
D34	BALANCER *T	36154-0004800	PP, D-FB'S NEW 4KG	1	

■ TUB ASS'Y (UNIVERSAL TYPE)



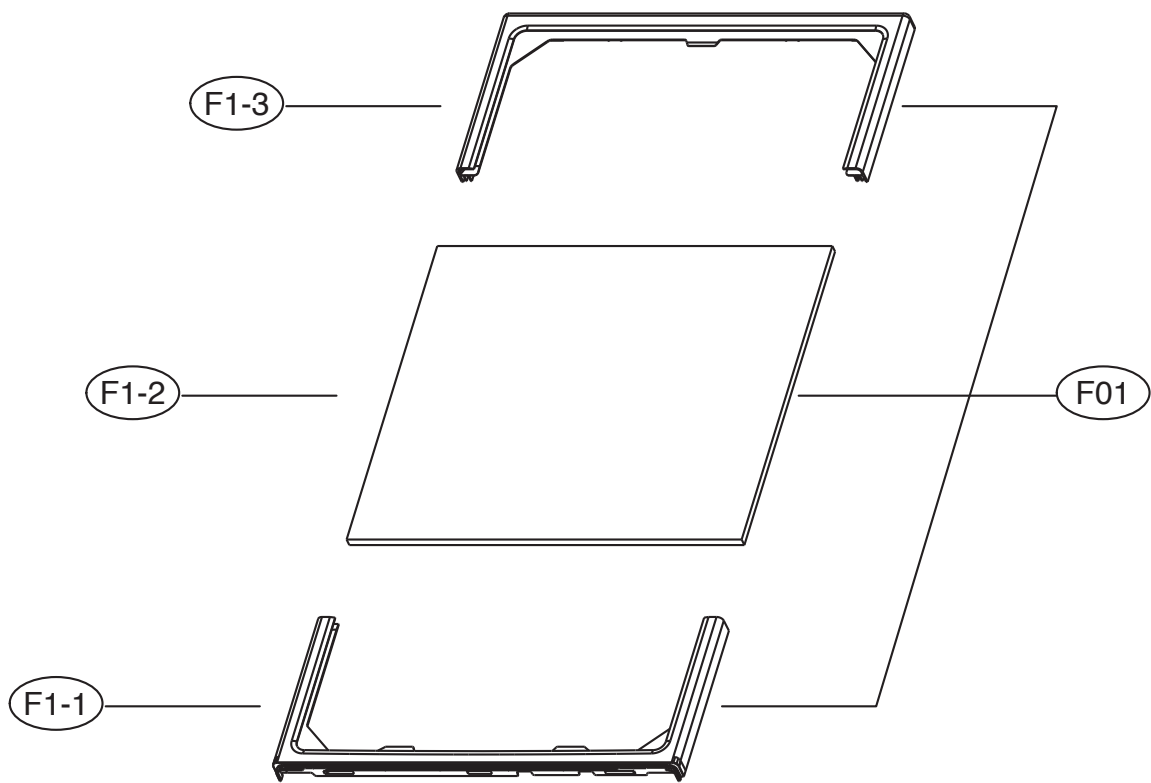
No.	PART NAME	PART CODE	SPECIFICATION	Q'TY	REMARK
D01	BALANCER WEIGHT AS	36154-0001702	BALANCER WEIGHT F L/R D-FB,FC'S 6.5KG	2	
D02	SPECIAL SCREW	36198-0002900	SPECIAL SCREW SWCH 8.5X30	11	
D03	GASKET	36123-0004700	GASKET EPDM, FT1081	1	
D04	CLAMP GASKET AS	36111-0001801	CLAMP GASKET AS HSW3, F'S WIRE L1060	1	
D05	TUB *F	36196-0004100	TUB *F FRPP, FT1081	1	
D06	SPECIAL SCREW	36198-0005300	SPECIAL SCREW SWRCH18A 5.6*30	12	
D07	FIXTURE HEATER	36119-0000701	FIXTURE HEATER SUS 304 0.7T 440X45	1	
D08	DRUM SUB AS	36170-0003802	STAR DRUM, CENTER GS, PERSIA	1	
D09	LIFTER WASH	36179-0000502	LIFTER WASH PP D-F'S NANO	3	
D10	SPIDER AS	36190-0001200	SPIDER AS D-FT1081	1	
D11	SPECIAL SCREW	36198-0003000	STS 430 8X25	3	
D12	HOSE DRAIN	36131-0004600	HOSE DRAIN EPDM	1	
D13	CLAMP AS	36111-0000701	CLAMP AS ID=61, WIRE+GUIDE+BOLT, GS	1	
D14	CLAMP HOSE	36111-0000202	CLAMP HOSE HSW3,YW,D2.6,ID36,W44.5, L35	1	
D15	AIR TRAP	36152-0000700	AIR TRAP PP	1	
D16	CLAMP HOSE	36111-0001901	CLAMP HOSE DI=26	1	
D17	HOSE AIR	36131-0005100	HOSE AIR ID=4,OD=8, L=580	1	
D18	TUB *R	36196-0004200	TUB REAR FRPP, FT1081	1	
D19	BEARING *O	36155-0000400	BEARING OUTER F,L,E,U,6205ZZ	1	
D20	BEARING *I	36155-0000300	BEARING INNER F,L,E,U,6206ZZ	1	
D21	SEAL WATER	36189-0000800	WATER SEAL NBR	1	
D22	GASKET TUB	36123-0001500	GASKET TUB EPDM L1600	1	
D23	DAMPER FRICTION	36166-0000302	120N CIMA ST=170-260 DL=197.5 LOW NOISE	2	
D24	DAMPER PIN	36166-0000400	DAMPER PIN AKS D=14.5	2	
D25	HOSE VENT	36131-0004400	HOSE VENT EPDM	1	
D26	CLAMP HOSE	36111-0001901	CLAMP HOSE DI=26	1	
D27	SPRING SUSPENSION	36145-0002800	D6K FU,D=3.2 L=158,K=0.554 SILVER COATING	1	
D28	BALANCER WEIGHT *T AS	36154-0005400	BALANCER WEIGHT *T PP , D-FC'S , 6KG	1	
D29	MOTOR UNIVERSAL	66182-0003206	TONLON 240VDC 2P PI340 PERSIA DUM66-45P	1	
D30	PULLEY	36186-0001200	PULLEY ALDC, D-FU	1	
D31	BELT V	36157-0000200	BELT V FU/4PJ1120/BUTADIENE/ GATES	1	
D32	UNIT BUBBLE PUMP AS	66149-0006801	220-240V DBK-240DB RP CHSHION	1	
D33	HEATER WASH	66127-0001304	230V 2000W DHDH-600XY INCOLOY800 FUSE 2EA SAUDI	1	

■ CABINET AS



No.	PART NAME	PART CODE	SPECIFICATION	Q'TY	REMARK
E01	CABINET	36108-0000909	PCM, WH-1802C, 0.7*825.7*1630.8, PERSIA, NON-VYNYL, DD	1	
E02	FRAME *T *L	36121-0009301	FRAME TOP *L FT, SGCC 1.2T, G/S	1	
E03	FRAME *T *R	36121-0009401	FRAME TOP *R SGCC 1.2T, FT1081, G/S	1	
E04	FRAME LOWER	36121-0010100	D-HT'S, SGCC 1.0T, G/S	1	
E05	BASE *U *L	36103-0004400	BASE UNDER *L D-HT'S, SGCC 1.6T, G/S	1	
E06	BASE *U *R	36103-0004500	BASE UNDER *R D-HT'S, SGCC 1.6T, G/S	1	
E07	FRAME UPPER	36121-0020500	SGCC, T1.2X627.0X72.0(P), PERSIA, PRO/CAM	1	
E08	LEG ADJUST AS	36178-0001900	SWCH10A 26x8.7 + BUTYL FOOT 35mm	4	
E09	COVER *B AS	36113-0030500	COVER *B + CUSHION, PERSIA	1	
E10	UNIT EMI FILTER AS	66149-0000611	K25-6 RUIKAI EURASIA 7mH, 0.47uF, 2200pF 471D, 430k	1	
E11	UNIT DRAIN PUMP AS	66149-0007601	AL.220-240/50 B20-6, BPX2-15L 6KG	1	
E12	STOPPER SPRING	36146-0000200	POM, DWD-100DR	2	
E13	HOSE DRAIN *O	36131-0008909	D-F'S, DWD-90WNB L1980	1	
E14	CLAMP HOSE	36111-0003001	CLAMP HOSE NYLON, DA-16N, ID21.9 D-MU80	1	
E15	SCREW TAPPING	90007-0006400	T2S TRS 4X14 STS	1	
E16	CLAMP HOSE	36111-0001901	DI=26	1	
E17	HARNESS AS	66126-0040101	Single PUMP, BUBBLE, EMI , UNIVERSAL Washer	1	
E18	CAP WATER REMAIN	36109-0002000	PP	1	
E19	HOSE WATER REMAIN	36131-0005200	EPDM,ID=8.5, L200	1	
E20	SCREW TAPPING	90007-0006600	T2S TRS 4X14 MFZN	4	
E21	SCREW TAPPING	90007-0006600	T2S TRS 4X14 MFZN	4	
E22	SCREW TAPPING	90007-0006600	T2S TRS 4X14 MFZN	3	
E23	WM PCB INVERTER ASSY	40302-1082100	PERSIA, INV PCB AS, 220V	1	

■ PLATE T AS












No.	PART NAME	PART CODE	SPECIFICATION	Q'TY	REMARK
F01	PLATE *T AS	36141-0005808	PERSIA PJT	1	
F1-1	FRAME PLATE *F	36121-0020401	ABS, HG0760/G62156/GY-349A	1	
F1-2	PLATE *T	36141-0003101	PLATE *T MFC, SILVER 12TX577X504	1	
F1-3	FRAME PLATE *R	36121-0001201	ABS SPRAY	1	

6. FUNCTIONS OF THE CONTROL PANEL




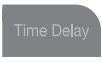

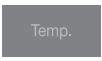
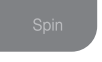

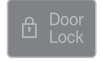
■ DWD-HB143**/HC123** (The 3rd Panel)



 Power	Press this switch to turn the power on or off.
 Start/Pause	Operation and temporary stop is repeated as it is pressed. When you want to change program in operating; Press the 'Start/Pause' button → Select the program that you want to change → Press the 'Start/Pause' button again.
	You can select the course you want, and each lamp is turned on when that course is selected.
Time Delay 	It can be used to pre-engage time for wash. Reservation can be made from 1 hours to 19 hours. This option is enabled with every course program.
Rinse+ 	Rinse+ <ul style="list-style-type: none"> • Is used to add a rinse, which may assist in removing traces of detergent residue. • By selecting Rinse+ function, the rinse time and the rinse water are increased.
Temp. 	It can be used to adjust temperature of water according to types of the load to be washed. As the button is pressed, temperature of water is selected by 0°C → 20°C → 40°C → 60°C → 95°C
Spin 	By pressing the spin button, the spin speed can be chosen. Rinse Hold • Is selected by pressing the spin button repeatedly. This function leaves clothes in the machine; suspended in the water after a rinse without entering into spin. • To proceed through to a drain or spin, after the Rinse Hold function is completed, use spin button. example)  If you select the Rinse hold, the light comes on display. Spin Only • If you want only spin, you can operate spin only.
	If the door is locked, the light comes on the display.

■ DWD-HB144**/HC124** (The 4th Panel)



 Power	Press this switch to turn the power on or off.
 Start/Pause	Operation and temporary stop is repeated as it is pressed. When you want to change program in operating; Press the 'Start/Pause' button → Select the program that you want to change → Press the 'Start/Pause' button again.
	You can select the course you want, and each lamp is turned on when that course is selected.
	It can be used to pre-engage time for wash. Reservation can be made from 1 hours to 19 hours. This option is enabled with every course program.
	Rinse+ <ul style="list-style-type: none"> • Is used to add a rinse, which may assist in removing traces of detergent residue. • By selecting Rinse+ function, the rinse time and the rinse water are increased.
	It can be used to adjust temperature of water according to types of the load to be washed. As the button is pressed, temperature of water is selected by 0°C → 20°C → 40°C → 60°C → 95°C
	By pressing the spin button, the spin speed can be chosen. Rinse Hold • Is selected by pressing the spin button repeatedly. This function leaves clothes in the machine; suspended in the water after a rinse without entering into spin. • To proceed through to a drain or spin, after the Rinse Hold function is completed, use spin button. example)  If you select the Rinse hold, the light comes on display. Spin Only • If you want only spin, you can operate spin only.
	If the door is locked, the light comes on the display.

7. FUNCTIONS OF THE CONTROLLER

General Course Sequence Chart[DWD-HB143**/HB144**/HC123**/HC124**]

PROCESS		SELECTABLE		WASHER																								
				Cotton				Synthetics		Hand Wash		Wool		Intensive		Rinse +Spin		Sports Wear		Quick Wash		Baby Care		Drum Clean		Duvet		
COURSE			TIME(min)	Low	CHE	Mid	CHE	Mid	CHE	Low	CHE	Low	CHE	Mid	CHE	Mid	CHE	Low	CHE	Low	CHE	Mid	CHE	Mid	CHE	Mid	CHE	
PRE WASH	Load Sensing	NO		7.2sec	-	CK	NO	CK	-	CK	-	CK	-	CK	-	CK	-	CK	-	CK	-	CK	-	CK	-	CK	-	CK
	Water Supply	Time(min)																										
		25.13 KHz	mid	2											2									2				
	Pre Wash	Time(min)																										
		-		10											10													
				15																				15				
	Drain	Time(min)																										
		25.73 KHz		2											2									2				
B Spin	Time(min)																											
	-		2												2								2					
Spin	Time(min)																											
	400 RPM		2, 3																									
	800 RPM		3												3													
Pre Wash Time				0:00		0:00		0:00		0:00		0:00		0:19		0:00		0:00		0:00		0:19		0:00		0:00		
WASH	Load Sensing	NO		7.2sec	O		O		O	-		-		-		-		-		-		-		-		-		
	Water Supply	Time(min)																										
		25.20 KHz	low	1																	1							
		25.20 KHz	low	2	2						2		2						2				2					
		25.13 KHz	mid	2			2		2					2										2			2	
		24.67 KHz	high	2																								
	Wash1 (Before-Heating)	Time(min)																										
		-		5	15		15		5		5			5				5				5		5		5		
		Time(min)																										
	Wash2 (Heating)	-		10									10						10									
		-		15	15																							
		-		20			20		20						20													
		-		85																				85				
	Wash3 (After-Heating)	Time(min)																										
		-		3																	3							
		-		5							5		5															
-		10																										
-		15																				15						
-		20					20																20		20			
-		30												30														
Wash Time				1:37		1:42		0:47		0:12		0:17		0:57		0:00		0:27		0:04		1:47		0:27		0:27		
RINSE	Rinse Count			3		3		3		3		2		3		1		2		1		4		2		2		
	Drain	Time(min)																										
		25.73 KHz		1																	1							
				2	2		2		2		2		2		2				2				2		2		2	
	B Spin	Time(min)																										
		2		2	2		2		2		2		2		2				2				2		2		2	
	Spin	Time(min)																										
		400 RPM		2, 3							3		2											3		3		
		800 RPM		3	3		3		3						3												3	
	Water Supply	Time(min)																										
		24.67 KHz	mid	2	2		2		2		2		2		2		2		2		2		2		2		2	
	Rinse	Time(min)																										
-			3	3		3		3		3		3		3		3		3				3		3		3		
Drain	Time(min)																											
	25.73 KHz		1																									
Rinse Shower	Time(min)																											
	1		1																									
SPIN	Rinse Time			0:36		0:36		0:36		0:36		0:22		0:36		0:05		0:22		0:05		0:48		0:24		0:24		
	Drain	Time(min)																										
		25.73 KHz		1																	1							
				2	2		2		2		2		2		2		2		2				2		2		2	
	B Spin	Time(min)																										
		-		2	2		2		2		2		2		2		2		2		2		2		2		2	
	Spin	Time(min)																										
		400 RPM		3, 5							5		3						5				5		5			
		600 RPM		7																								
		800 RPM		2, 7	7		7		7						7		7				2					7		
		1000 RPM		10																								
		1200/1400 RPM		12																								
Crease Care	-		1	1		1		1						1		1						1			1			
Spin Time				0:12		0:12		0:12		0:09		0:07		0:12		0:12		0:09		0:05		0:10		0:09		0:12		
Total Time				2:25		2:30		1:35		0:57		0:46		2:04		0:17		0:58		0:14		3:04		1:00		1:03		
CHECK																												

Specialized Course Sequence Chart[DWD-HB143**/HB144**/HC123**/HC124**]

PROCESS	SELECTABLE			EUROPE				PERU		CHILE		MEXICO		MIDDLE EAST		SAUDI				CHINA		OTHER COUNTRIES		
				40°C		60°C		Prue Wash		Smart Wash		Eco Logico		Batik Care		Abaya		Thobe		Spin		Eco Whites		
	COURSE		TIME(min)	Mid	CHE CK	Mid	CHE CK	Mid	CHE CK	Mid	CHE CK	Low	CHE CK	Low	CHE CK	Low	CHE CK	Low	CHE CK	Low	CHE CK	Low	CHE CK	
PRE WASH	Load Sensing	NO		7.2sec	-	CK	-	CK	-	CK	-	CK	-	CK	-	CK	-	CK	-	CK	-	CK	-	CK
	Water Supply	Time(min)																						
	Pre Wash	25.13 KHz	mid	2					2															
		Time(min)																						
		-		10					10															
	Drain	-		15																				
		Time(min)																						
	B Spin	25.73 KHz		2					2															
		Time(min)																						
Spin	-		2					2																
	Time(min)																							
	400 RPM		2, 3																					
	800 RPM		3					3																
Pre Wash Time				0:00		0:00		0:19		0:00		0:00		0:00		0:00		0:00		0:00		0:00		
WASH	Load Sensing	NO		7.2sec	O		O		-		-		-		-		-		-		-		-	
	Water Supply	Time(min)																						
		25.20 KHz	low	1																				
		25.20 KHz	low	2									2											
		25.13 KHz	mid	2	2		2		2		2			2		2		2				2		
		24.67 KHz	high	2																				
	Wash1 (Before-Heating)	Time(min)																						
	Wash2 (Heating)	-	5	25		25		5		5		5		5		5		5				5		
		Time(min)																						
		-	10																					
		-	20	20						15		20												
		-	25																			30		
	Wash3 (After-Heating)	-	35			35																		
		Time(min)																						
		-	3																					
		-	5								5					5								
-		10										10				10								
-		15																						
-		20																						
-	25						25				20									20				
-	185	185		185																				
Wash Time				3:52		4:07		1:32		0:27		0:47		0:17		0:12		0:17		0:00		0:57		
RINSE	Rinse Count			3		2		3		2		2		2		2		2		0		3		
	Drain	Time(min)																						
		25.73 KHz	2	2		2		2		2		2		2		2		2				2		
	B Spin	Time(min)																						
		2	2	2		2		2		2		2		2		2		2				2		
	Spin	Time(min)																						
		400 RPM	2, 3											3		3		3						
		800 RPM	3	5		5		3		3		3										3		
	Water Supply	Time(min)		25.1		25.1																		
24.67 KHz		mid	2	2		2		2		2		2		2		2		2				2		
Time(min)																								
Rinse	-																							
	-																							
	-	3	3		3		3		3		3		3		3		3				3			
Rinse Time				0:42		0:28		0:36		0:24		0:24		0:24		0:24		0:24		0:00		0:36		
SPIN	Drain	Time(min)																						
		25.73 KHz	2	2		2		2		2		2		2		2		2		2		2		
	B Spin	Time(min)																						
		2	2	2		2		2		2		2		2		2		2		2		2		
	Spin	Time(min)																						
		400 RPM	3, 5											5		5		5						
		600 RPM	7																					
		800 RPM	2, 7								7		7								7		7	
		1000 RPM	10						10															
1200/1400 RPM		12	12		12																			
Crease Care	-	1	1		1		1		1		1		1		1		1		1		1			
Spin Time				0:17		0:17		0:15		0:12		0:12		0:10		0:10		0:10		0:12		0:12		
Total Time				4:51		4:52		2:42		1:03		1:23		0:51		0:46		0:51		0:12		1:45		
CHECK																								

8. FUNCTION OF THE CONVENIENT SERVICE

■ The test mode of the operation

You can check the PCB AS and the operation of the washing machine simply.

• The method to test and operate

- ① Press the Power button.
- ② Press the 'Spin' button 3 times while press the 'Temp.' button.
At this time, the version is displayed on the Custom LED
- ③ Whenever the 'Temp.' button is pressed, the washing machine is operated as following.
LC(Lock Switch Close) → H(Hot Valve) → C(Cold Valve) → P(Pre-Wash Valve)
→ bb(Bubble) → CP(Circulating pump) → dr(Drain Pump)
→ --(Temporary Pause) → r(Motor Right Rotating)
→ --(Temporary Pause) → L(Motor Left Rotating)
→ --(Temporary Pause)

■ The check mode of the water level frequency

You can check the water level frequency of the current state and the frequency by the variation of the water level.

• The method to test and operate

- ① Press the Power button.
- ② Press the 'Temp.' button 3 times while press the 'Spin' button.
- ③ The water level frequency of the current state displays on "18:88 LED".

ex) **5 6 2** = 25.62kHz

: It display three number except the first number of 25.62kHz

- ④ Whenever the Temp button is pressed, the washing machine is operated as following.
Cold Valve Off (Initial state)
→ Cold Valve On
→ Hot Valve On
→ Pre-Wash Valve On
→ Bubble Pump On
→ Drain Pump On
→ ... (repetition)

■ The spinning test mode

You can continually spin the washing machine with constant speed.

• The method to test and operate

- ① Press the Power button.
- ② Press the 'Time Delay' button 3 times while press 'Temp.' button.
- ③ '400' displays on '18:88 LED'. 400 means the spinning rpm.
You can adjust the spinning rpm by pressing Spin button.
And this value increases by 50 up to 1400.
- ④ When press Start button, the washing machine continually operates with given spinning rpm.

■ The durability test mode

You can repetitively operate the washing machine with one course.

• The method to test and operate

- ① Press the Power button.
- ② Press the 'Rinse+' button 3 times while press 'Temp.' button.
- ③ 'd3' displays on '18:88 LED'. You can select the course by using Program Dial, 'Temp.' button, 'Spin' button, 'Rinse+' button and 'Time Delay' button.
- ④ When press Start button, the washing machine repetitively operates with selected course.

9. TROUBLESHOOTING GUIDE

This washing machine is equipped with automatic safety function which detect and diagnose faults at an early stage and react appropriately.

When the machine does not function properly or does not function at all, check the following points.

SYMPTOM	CAUSE	SOLUTION
Rattling and clanking noise.	Foreign objects such as coins or safety pins maybe in the drum or pump.	Stop washer and check drum and filter.
Thumping sound.	Heavy wash loads may produce a thumping sound. This is usually normal.	If sound continues, washer is probably out of balance. Stop and redistribute wash load.
Vibrating noise.	Have all the transit bolts and packing been removed?	If not removed during installation, refer to installation guide for removing transit bolts.
	Are all the feet resting firmly on the ground?	Wash load may be unevenly distributed in drum. Stop washer and rearrange wash load.
Water leaks.	Inlet hoses or drain hose are loose at tap or washer.	Check and tighten hose connections.
	House drain pipes are clogged.	Unclog drain pipe. Contact plumber if necessary.
Oversudsing.		Too much detergent or unsuitable detergent may cause excessive foaming which may result in water leaks.
Water does not enter washer or it enters slowly.	Water supply is not adequate in area.	Check another tap in the inlet house.
	Water supply tap is not completely open.	Fully open tap.
	Water inlet hose is kinked.	Straighten hose.
	The filter of the water inlet is clogged.	Check the filter of the water inlet.
Water in the washer does not drain or drains slowly.	Drain hose is kinked or clogged.	Clean and straighten drain hose.
	The drain filter is clogged.	Clean the drain filter.

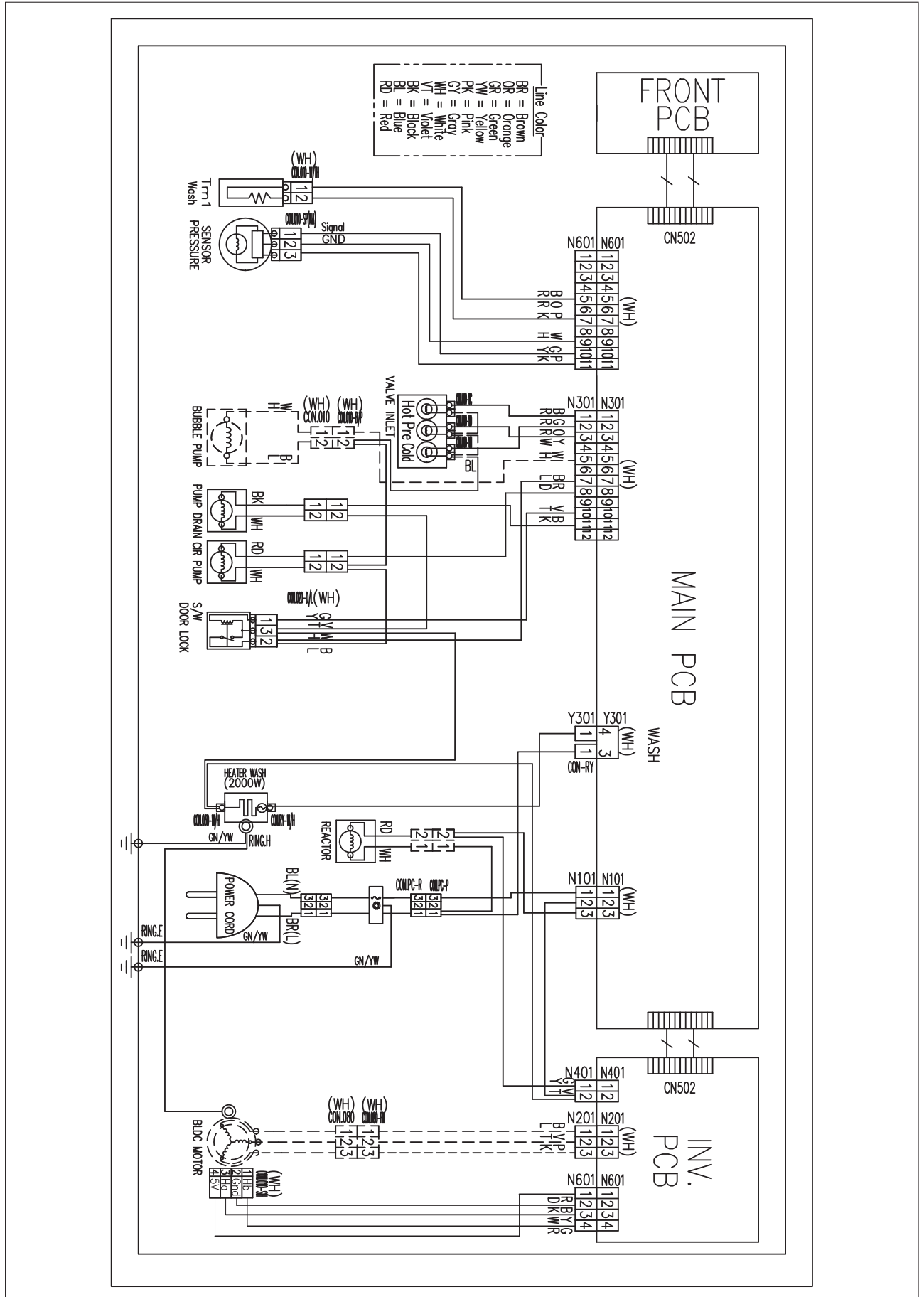
SYMPTOM	CAUSE	SOLUTION
Washer does not start.	Electronical power cord may not be plugged in or connection may be loose.	Make sure plug fits tightly in wall outlet.
	House fuse blown, circuit breaker tripped, or a power outage has occurred.	Reset circuit breaker or replace fuse. Do not increase fuse capacity. If problem is a circuit overload, have it corrected by a qualified electrician.
	Water supply tap is not turned on.	Turn on water supply tap.
Washer will not spin.	Check that the door is firmly shut.	Close the door and press the Start/Pause button. After pressing the Start/Pause button, it may take a few moments before the clothes washer begins to spin. The door must lock before spin can be achieved.
Door does not open.		Once started, the door can not be opened for safety reasons. Wait two minutes before opening the door to give the electric locking mechanism time to release.
Wash cycle time delayed.		The washing time may vary by the amount of laundry, water pressure, water temperature and other usage conditions. If the imbalance is detected, the wash time shall be increased.
The washer will stop during spinning . Spinning is insufficient.	PFE error due to much detergent and unsuitable detergent.	If PFE error mode was displayed on the control part, in order to solve this problem, first turn off the power of the washing machine, second turn on the power pressing Power button, third press SPIN button and last press Start/Pause button.

MESSAGE	ERROR	CAUSE	SOLUTION
IE	WATER INLET ERROR	The water tap is closed.	Open the water tap.
		The filter of the valve inlet is clogged.	Clean the filter of the valve inlet.
		The valve inlet is an inferior product or broke down.	Change the valve inlet.
		The water level sensor (sensor pressure) is an inferior product or broke down.	Change the water level sensor (sensor pressure).
		The drain motor works during water supply.	Change the drain motor.
		The PCB ASS'Y does not check the water level.	Change the PCB ASS'Y.
OE	DRAIN ERROR	The drain hose is kinked or clogged.	Clean and straighten the drain hose.
		The drain motor is an inferior product.	Change the drain motor.
		The valve inlet works during drain.	Change the valve inlet.
		The water level sensor is an inferior product.	Change the water level sensor.
		The PCB ASS'Y does not check the water level.	Change the PCB ASS'Y.
UE	UNBALANCE ERROR	The laundry is concentrated to one side of the drum during spin.	Rearrange the laundry.
LE	DOOR OPEN ERROR	The Start/Pause button is pressed while the door is opened.	Close the door.
		The switch door lock is an inferior product.	Change the switch door lock.
		The PCB ASS'Y does not check the door lock.	Change the PCB ASS'Y.
E2	OVERFLOW ERROR	The water is supplied continuously due to an inferior valve inlet.	Change the valve inlet.
		The valve inlet is normal, but the water level sensor (sensor pressure) is inferior.	Change the water level sensor (sensor pressure).
		The drain motor does not work. (The drain motor is an inferior product or broke down.)	Change the drain motor.
E4	LEAKAGE ERROR	Water leaks from the tub or the hose drain.	Check the leak of the tub or the hose drain. Then change the tub or the hose drain.
E5	HIGH VOLTAGE ERROR	The laundry is jammed between the gasket and the drum.	Rearrange the laundry.
		The PCB ASS'Y is an inferior product.	Change the PCB ASS'Y.
E6	EMG ERROR	The laundry is jammed between the gasket and the drum.	Rearrange the laundry.
		The motor is an inferior product.	Change the motor.
		The PCB ASS'Y is an inferior product.	Change the PCB ASS'Y.
E8	MOTOR ERROR	The motor is not normally connected.	Check the connector of the motor.
		The motor does not work. (The motor is an inferior product or broke down.)	Change the motor.
E9	SENSOR PRESSURE ERROR	The water level sensor is an inferior product.	Change the water level sensor.
H2	THERMISTOR WASH ERROR	The thermistor wash is an inferior product or broke down.	Change the thermistor wash.
		The thermistor wash is not connected normally.	Check the connector of the thermistor wash.
H4	THERMISTOR WASH OVERHEATING ERROR	The heater worked without the water in the tub.	Check the water level.
		The thermistor wash is an inferior product or broke down.	Change the thermistor wash.

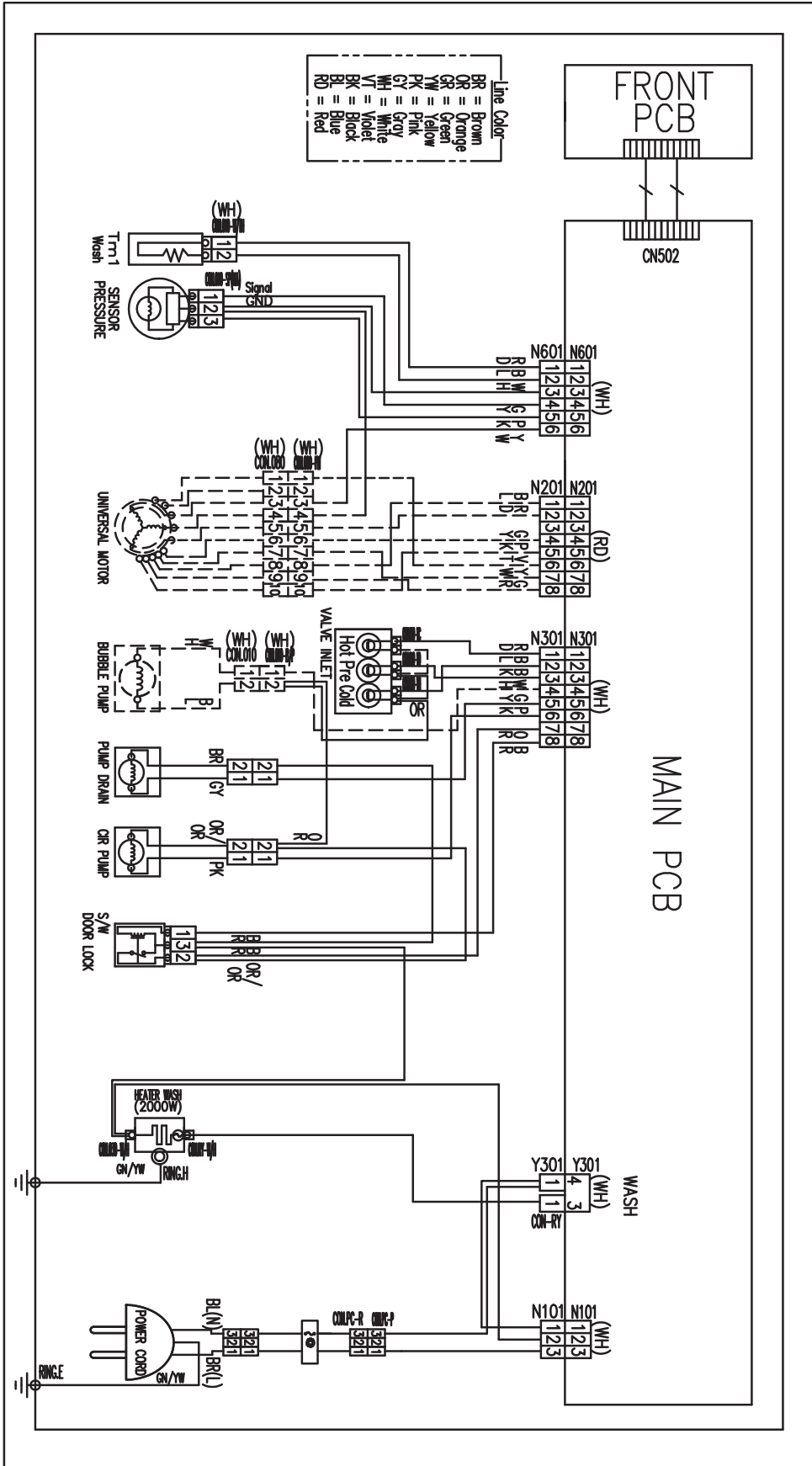
MESSAGE	ERROR	CAUSE	SOLUTION
H5	WATER TEMP. ERROR	The water temp. is over 45°C in delicate & wool course. (The thermistor wash is an inferior product or broke down.)	Change the thermistor wash.
H6	HEATER WASH ERROR	The heater wash dose not work. (The water temp. doesn't rise over 2°C during 15min.)	Change the heater wash.
H8	HEATER WASH OVERHEATING ERROR	The heater worked without the water in the tub.	Check the water level and the heater wash.
lb	IGBT ERROR	The PCB ASS'Y is an inferior product.	Change the PCB ASS'Y.
PFE	PUMP FILTER ERROR	The drain pump filter is clogged.	Clean the drain pump filter.
		The drain pump does not work during spin.	Change the drain pump.
		The large amount of detergent was used.	Use the proper amount of detergent.
		The drain hose is placed higher than 1m above the floor.	Place the drain hose 1m below the floor.
HP	HIGH POWER ERROR	HP ERROR occurs when the input power is more than 280V	Hp error disappears below the 270v input voltage.

10. WIRING DIAGRAM

- DD MOTOR TYPE



- UNIVERSAL MOTOR TYPE



Dongbu Daewoo Electronics

**DONGBU DAEWOO
ELECTRONICS CORP.**

Dongbu Financial Center, 432, Teheran-ro,
Gangnam-gu, Seoul 135-523, Korea

PRINTED DATE: May. 2016

S/M NO. :

ABOUT THIS MANUAL

VISION CREATIVE, INC.

서울 종로구 통의동
6번지 이룸빌딩 4층

담 당	신준수 님
M O D E L	DWD-HB143**/HB144** DWD-HC123**/HC124** DWD-GN123** (S/M)
접 수	2016.05.11
M E M O	총 45p (A4)
<p>16.05.11-표지, 표지뒤, 1p, 2p, 3p, 4p, 6p, 11p, 12p, 25p, 26p _ 11p 16.05.16-1p, 2p, 3p, 27p, 28p _ 5p 16.06.01-25p, 26p, 27p, 28p, 29p, 30p, 35p, 36p (페이지 추가) _ 8p 16.06.09-1p, 2p, 3p, 15p, 16p, 17p~18p (페이지 추가), 37p, 38p _ 9p 16.06.13-15p, 16p, 17p, 18p, 19p, 20p _ 6p 16.06.16-19p, 20p, 21p, 22p, 23p, 24p, 25p, 26p _ 8p 16.06.17-1p, 22p~23p (페이지 추가), 24p, 25p _ 5p 16.06.20-1p, 12p, 13p, 14p~15p(페이지 추가), 17p, 18p, 19p, 20p, 21p, 22p, 23p, 24p, 25p, 26p, 27p, 28p, 29p, 30p _ 19p 16.06.28-31p, 32p _ 2p 16.07.05-31p, 32p _ 2p (최원익 님) 16.07.11-30p _ 1p (최원익 님) 16.08.01-2p, 3p, 4p _ 3p (최원익 님) 16.08.02-목차, 2p, 21p, 23p, 24p (페이지 추가) _ 5p (조민수 님) 16.08.03-표지 (모델명 추가 DWD-GN123**), 2p, 21p, 24p _ 4p (조민수 님) 16.11.14-29p, 30p _ 2p</p>	

NO NEED PRINT