

S/M No. :

Service Manual

Drum Washing Machine

Model: DWD-L1212

✓ 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>).

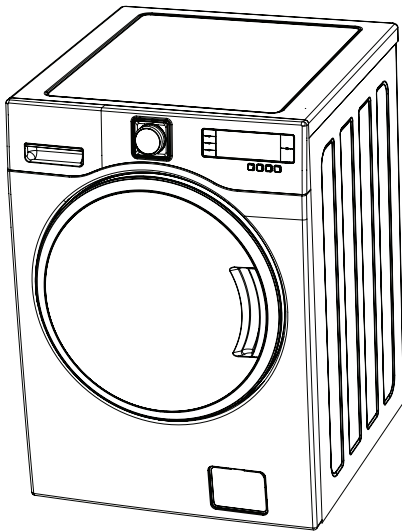
DAEWOO 
ELECTRONICS

Oct. 2009

2. WASHER SPECIFICATION

1. Product Specification

■ 1st Model

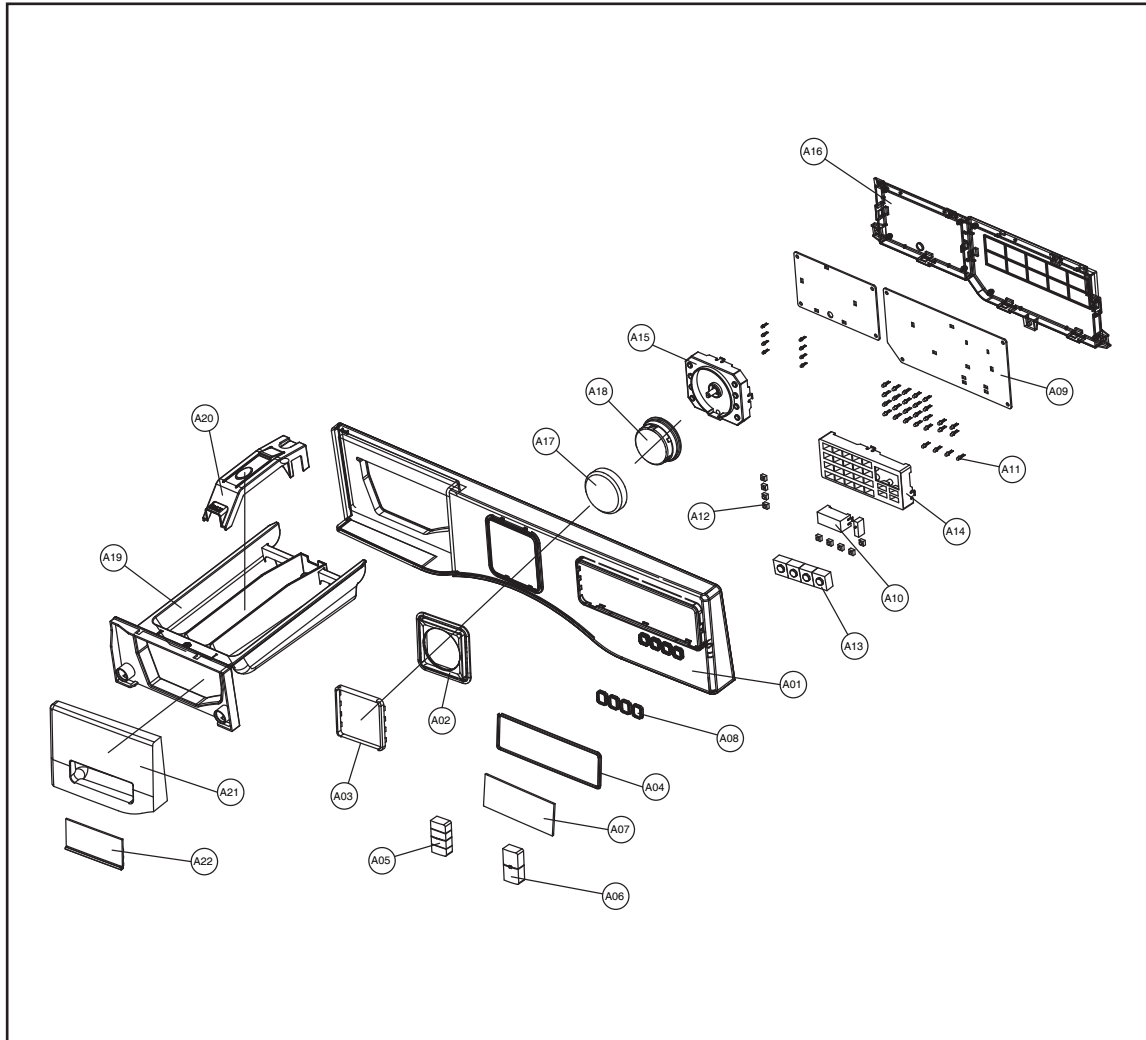


MODEL		DWD-L1212		
Dimension (mm)	600 X 645 X 850			
Maximum mass of textile (kg)	9 Kg			
Unit Weight (net/gross)		71/75		
Standard Water Consumption	65 ℓ			
Spin Speed (RPM)	DWC(DWD)-LU12XX : MAX 1200			
Operating Water Pressure	0.03MPa ~ 0.8MPa (0.3kgf/cm ² ~ 8kgf/cm ²)			

3. PARTS LIST BY ASS'Y

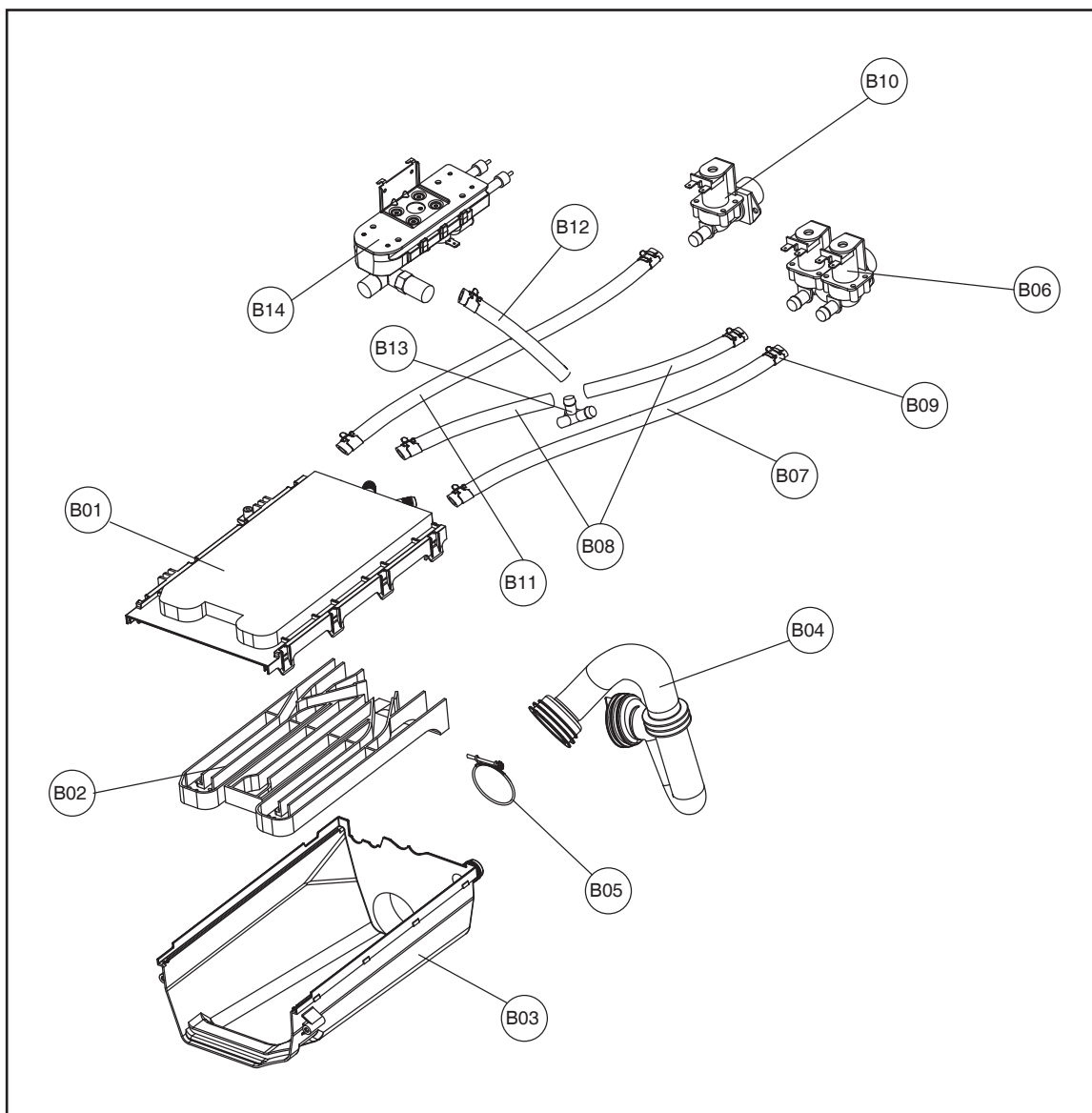
1. PANEL AS

■ 1st Model



No.	PARTS NAME	CODE	SPECIFICATIONS	Q'TY	REMARK
A01	PANEL *F	36142T2000	ABS	1	
A02	DECORATOR WINDOW COURSE	NO DISPONIBLE	ABS	1	
A03	WINDOW COURSE	NO DISPONIBLE	C-LU1011	1	
A04	DECORATOR WINDOW DISPLAY	NO DISPONIBLE	ABS	1	
A05	BUTTON FUNCTION	3616644000	ABS	1	
A06	BUTTON PS	3616644100	ABS	1	
A07	WINDOW DISPLAY	3615509300	C-LU1011	1	
A08	BUTTON LED	NO DISPONIBLE	C-LU1011	1	
A09	PCB BOARD	PEDIR PCB AS	L SERIES FRONT PCB BOARD	1	□ □ □ PCB AS:□ □ PRPSSWL001
A10	CUSTOM LED	PEDIR PCB AS	C-LU1011	1	
A11	LED LAMP	PEDIR PCB AS	9MM FORMING TYPE , D=3MM	36	
A12	SW TACT	PEDIR PCB AS	2PIN, 6*6*5	9	
A13	HOLDER LED OPTION	PEDIR PCB AS	HIPS	1	
A14	HOLDER LED FUNCTION	PEDIR PCB AS	HIPS	1	
A15	HOLDER LED COURSE	PEDIR PCB AS	HIPS	1	
A16	CASE PCB F	PEDIR PCB AS	HIPS	1	
A17	BUTTON DIAL OUTER	3616643800	ABS	1	
A18	BUTTON DIAL INNER	3616643900	ABS	1	
A19	CASE DETERGENT	36111T1J00	PP	1	CASE □ DETERGENT □ AS:
A20	CAP SOFTENER	3610916600	PP	1	
A21	CASE HANDLE	3611149200	ABS	1	
A22	DECORATOR CASE HANDLE	3611696200	ABS	1	

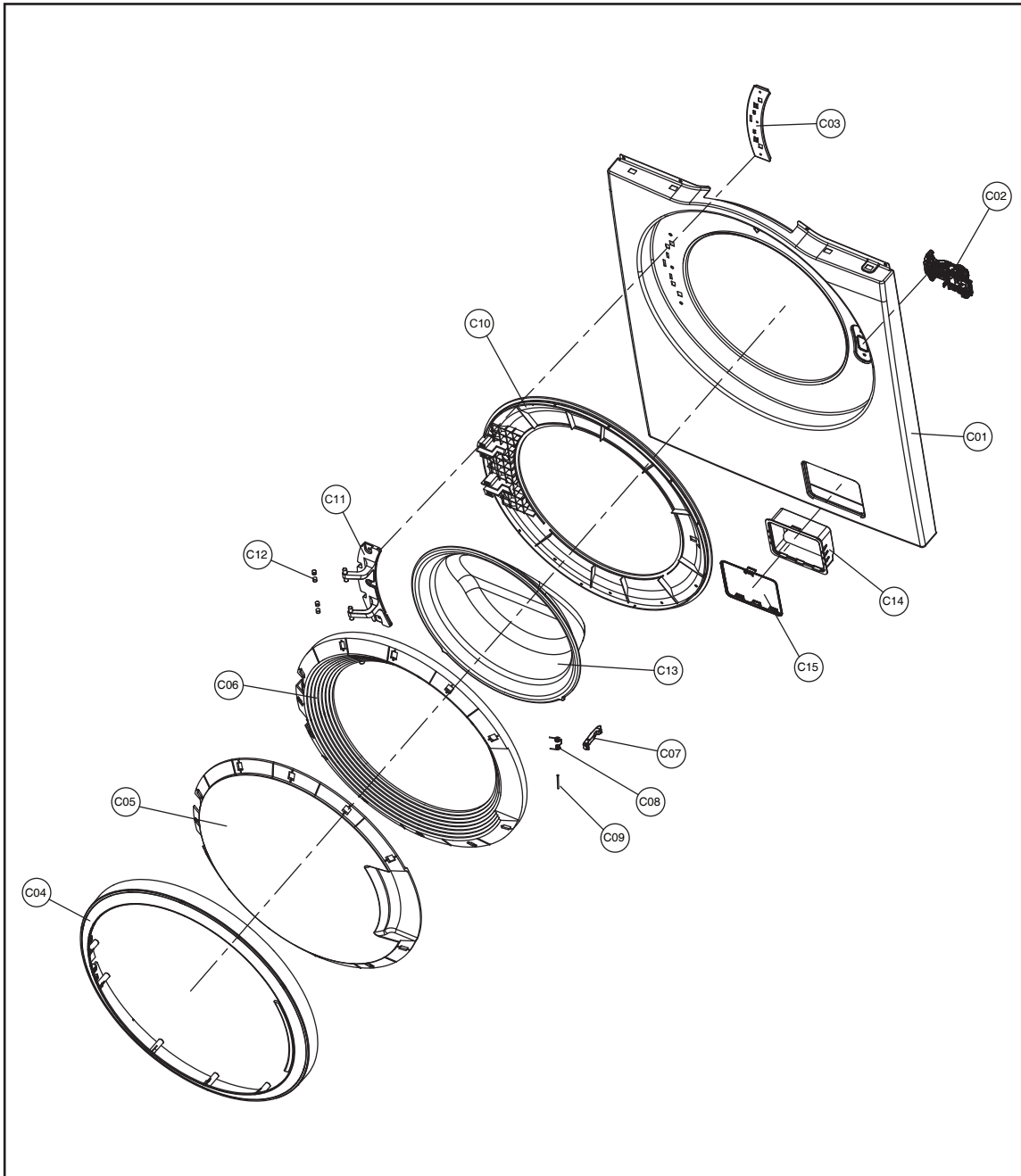
3. INLET BOX AS



No.	PARTS NAME	CODE	SPECIFICATIONS	Q'TY	REMARK
B01	NOZZLE *T	3618111100	PP	1	
B02	NOZZLE *U	3618111000	PP	1	
B03	BOX INLET	3610526500	PP	1	
B04	HOSE INLET	3613274600	EPDM	1	
B05	CLAMP AS	3611203200	ID=60, WIRE+GUIDE+BOLT+NUT	1	
B06	VALVE INLET	3615416820	220-240V.VDE.BITRON.	1	
B07	HOSE WATER SUPPLY	3613270900	EPDM ID9.5 OD14.5, WASHING	1	
B08	HOSE WATER SUPPLY	3613270900	EPDM ID9.5 OD14.5, PRE.WASH	2	
B09	CLAMP HOSE	3611205800	100H, ID=13.8 W=10.0 0.9T	10	
B10	NO DISPONIBLE PARA ESTE MODELO				
B11	NO DISPONIBLE PARA ESTE MODELO				
B12	HOSE WATER SUPPLY	3613270900	EPDM ID9.5 OD14.5, STEAM	1	
B13	PIPE JOINT I	3614413100	PP	1	
B14	Unit Steam AS	36189M2U00	L-SERIES STEAM UNIT 900W	1	option

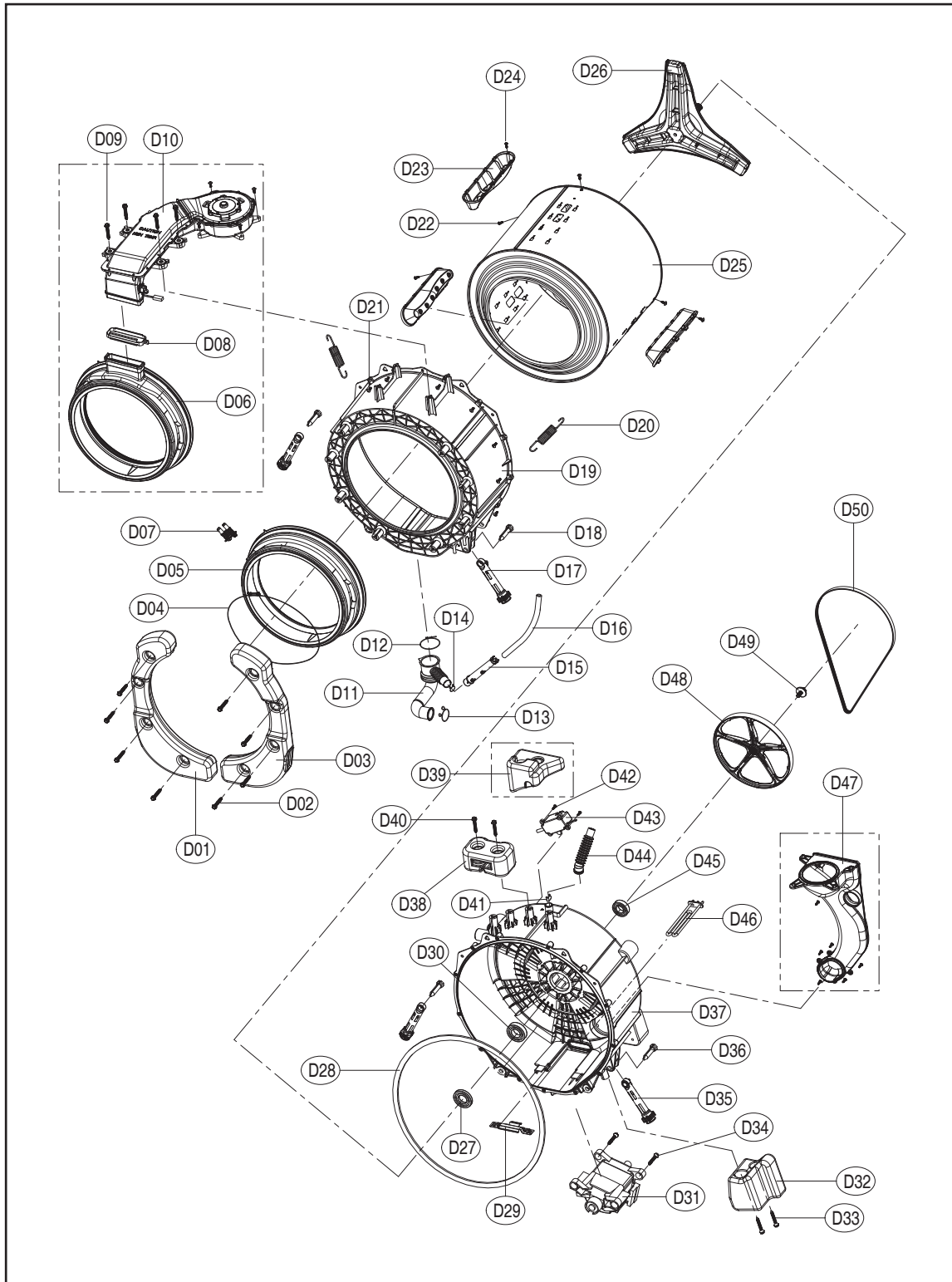
4. CABINET F ASSY

■ 1st Model



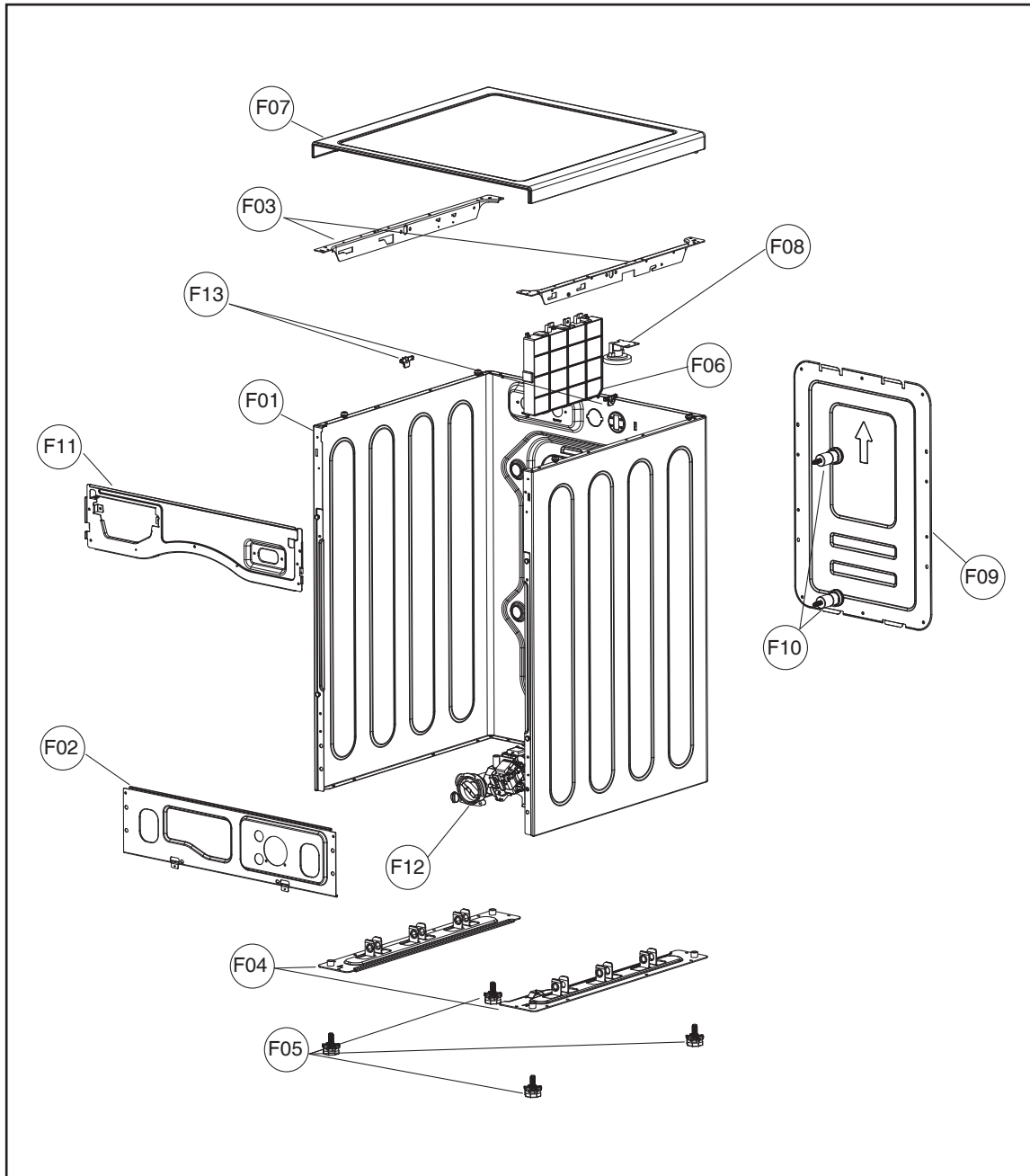
No.	PARTS NAME	CODE	SPECIFICATIONS	Q'TY	REMARK
C01	CABINET *F	NO DISPONIBLE	SECD 0.8T	1	
C02	SWITCH DOOR LOCK	3619047200	DL-S1.250V16A.BITRON	1	
C03	PLATE HINGE SUPPORT	NO DISPONIBLE	SPG 0.8T, DWD-T110R	1	
C04	FRAME DOOR *O	36122UD800	ABS	1	DOOR AS: ☐ 36117ACE01 ☐ ☐ PUERTA ☐ COMPLETA
C05	PROTECTOR GLASS	PEDIR DOOR AS	ABS	1	
C06	DECORATOR DOOR *O	PEDIR DOOR AS	ABS	1	
C07	HOOK DOOR	3613100900	ZNDC	1	
C08	SPRING HOOK	3615115400	SUS304,	1	
C09	HOOK SHAFT	3613101000	SUS, D=3.0	1	
C10	FRAME DOOR *I	36122UD600	PP	1	
C11	HINGE DOOR	3612903800	AL, DWD-T110R	1	
C12	CAP HINGE DOOR	NO DISPONIBLE	POM	4	
C13	DOOR GLASS	PEDIR DOOR AS	GLASS	1	
C14	CASE PUMP	NO DISPONIBLE	PP	1	
C15	COVER PUMP	NO DISPONIBLE	ABS	1	

6. TUB ASSY(UNIVERSAL)



No.	PARTS NAME	CODE	SPECIFICATIONS	Q'TY	REMARK
D01	BALANCER WEIGHT L	NO DISPONIBLE	PP, D-LU1011, 6.6KG	1	
D02	SPECIAL SCREW	NO DISPONIBLE	SWCH 8.5X30	8	
D03	BALANCER WEIGHT R	NO DISPONIBLE	PP, D-LU1011, 6.6KG	1	
D04	CLAMP GASKET AS	3611207000	C-LU1011	1	
D05	GASKET	3612325300	EPDM , WASH , D-LU1011	1	FOR WASH
D06	NO DISPONIBLE PARA ESTRE MODELO				
D07	NOZZLE SHOWER	PEDIR GASKET D05	PP	1	
D08	NO DISPONIBLE PARA ESTRE MODELO				
D09	NO DISPONIBLE PARA ESTRE MODELO				
D10	NO DISPONIBLE PARA ESTRE MODELO				
D11	HOSE DRAIN *I	3613275200	EPDM D-LU1011	1	
D12	CLAMP AS	3611203200	ID=61, WIRE+GUIDE+BOLT, GS	1	
D13	CLAMP HOSE	3611204700	D26	1	
D14	CLAMP HOSE	3611201400	HSW3,YW,D2.6,ID36,W44.5	1	
D15	AIR TRAP	361A500101	PP	1	
D16	HOSE AIR(PRESSURE)	NO DISPONIBLE	ID=4,OD=8, L=680MM(L-SERIES)	1	
D17	DAMPER FRICTION	361A700110	70N AKS ST=170-260 DL=197.5 LOW NOISE	2	
D18	DAMPER PIN	361A700200	AKS D=14.5	2	
D19	TUB FRONT	3618830000	FRPP, C-LU1011	1	
D20	SPRING SUSPENSION	3615116800	KGF	2	
D21	SPECIAL SCREW	NO DISPONIBLE	SWCH 6.5X30	14	
D22	SPECIAL SCREW	NO DISPONIBLE	SUS430 8*25	3	
D23	LIFTER WASH	361A401300	PP,1PIECE,TWIST	3	
D24	SCREW TAPPING	NO DISPONIBLE	T2S TRS 4X14 SUS,STS	3	
D25	DRUM AS	3617012600	D-LU1011	1	
D26	SPIDER AS	361A301200	D-LU1011	1	
D27	WATER SEAL	361A600100	NBR	1	
D28	SEALING TUB	3612321600	EPDM L1600(-0~ +10)	1	
D29	FIXTURE HEATER	NO DISPONIBLE	SUS	1	
D30	BEARING INNER	3616303100	6206Z	1	
D31	UNIT MOTOR UNIVERSAL	36189L4H00	DC220/50 G&J 2P PI340 45T(CCA)	1	
D32	BALANCER WEIGHT LOWER	NO DISPONIBLE □	PP, D-LU1011, 3.5KG	1	
D33	SPECIAL SCREW	NO DISPONIBLE	SWCH 8.5X30	2	
D34	SPECIAL SCREW	NO DISPONIBLE	SWRCH18A 7.4*25.5	2	
D35	DAMPER FRICTION	361A700130	60N AKS ST=170-260 DL=197.5 LOW NOISE	2	
D36	DAMPER PIN	361A700200	AKS D=14.5	2	
D37	TUB REAR AS	36100T1400	D-LU1011	1	
D38	NO DISPONIBLE PARA ESTE MODELO				
D39	BALANCER WEIGHT T(WASH)	NO DISPONIBLE □	PP, D-LU1011, 2.48KG	1	FOR WASH
D40	SPECIAL SCREW	3616029400	SWCH 8.5X30	2	
D41	CLAMP HOSE	3611204700	D26	1	
D42	SPECIAL SCREW	NO DISPONIBLE	T2S TRS 4X10+24	2	OPTION
D43	UNIT BUBBLE PUMP AS	36189L4120	220-240V DBK-240DB RP CHSHION	1	OPTION
D44	HOSE VENT	3613267100	EPDM	1	
D45	BEARING OUTER	3616303200	6205Z	1	
D46	HEATER WASH	3612803700	230V 2000W.1R5A721002.IRCA FUSE 2EA	1	
D47	NO DISPONIBLE PARA ESTE MODELO				
D48	PULLEY	3618434100	ALDC	1	
D49	SPECIAL BOLT AS	3616029600	SWCH 10*30,F/L BOLT S.P/W SEAL LOCK	1	
D50	BELT V	3616591120	GATES 4PJ1175 BUTADIENE RUBBER	1	

9. CABINET AS



No.	PARTS NAME	CODE	SPECIFICATIONS	Q'TY	REMARK
F01	CABINET	NO DISPONIBLE	SGCC 0.8T,L'S	1	
F02	FRAME LOWER	NO DISPONIBLE	SGCC 1.2T	1	
F03	FRAME TOP *L	NO DISPONIBLE	SGCC 1.6T	1	
	FRAME TOP *R	NO DISPONIBLE	SGCC 1.6T	1	
F04	BASE U L	NO DISPONIBLE	SGCC T2.0	1	
	BASE U R	NO DISPONIBLE	SGCC T2.0	1	
F05	LEG ADJUST AS	3617703811	CHINA PARTS, DWD-900W	4	
F06	MAIN PCB AS	PRPSSWL105	D-LU1212EFA	1	
F07	PLATE T AS	3614541110	SECC 1.2T, C-LU1011	1	
F08	SENSOR PRESSURE	3614825240	DL-DW13 AIR INLET 315	1	
F09	COVER *B	3611431600	0.4T SGCC, C-LU1011	1	
F10	FIXTURE TUB AS	NO DISPONIBLE	6KG, CHINA, SAMWOO	4	
F11	FRAME UPPER	NO DISPONIBLE	SGCC 1.2T	1	
F12	UNIT DRAIN PUMP AS	36189M2T00	AC220~240V/50HZ HANYU,AL,30W,DUAL PUMP,FILTER NEW	1	
F13	STOPPER SPRING	3615202200	POM, DWD-100DR	2	

5. TEST MODE

5-1. Testing Mode

PCB and other electronic parts will be tested without water supply whether they are normal or not.

1) Process

Press power button → Press "SPIN" button 3 times with pressing "OPTION" button → 'L d' will be shown on LED → Whenever pressing "TEMP" button 1 time, below process will be occurred.

MICOM Ver. → L C (Lock Closed) → Run (count) → b1, b2, b3, b4, b5, b6,

→ F (Fan Motor) → H (Hot V/V)

→ C (Cold V/V) → P (prewashing V/V) → d (dry V/V) → s(steam V/V) → bb (bubble)

→ dr (drain motor) → CR(circulation) → L O(Lock S/W Open)

2) More details

- ① When turn on 'LOCK' signal, all process is conducting normaly.
- ② When working starts, the PCB displays all the sensor conditions.
- ③ In this case, BLDC Motor is not tested. In order to test it, select spin or rinse.

5-2. Continous testing mode

1) Process

After pressing "TEMP", "OPTION", "SPIN" button simultaniously, press "POWER" button.

ALL LED On → SPIN button → ALL LED off

→ L C (Lock Close) → r (Motor right) → L (Motor Left)

→ F (Fan Motor) → H (Hot V/V) → C (Cold V/V) → b (Pre whsh V/V) → d (dry V/V)

→ bb (bubble) → h1 (Wash heater) → h2(Dry heater) → dr (Drain motor On)

→ L O(Lock S/W Open)

2) More tails

- ① LED test can be done with all LED On.
- ② All sensor conditions will be shown on PCB during processing.

6-1. Error Display

6-1. IE (Input Error) - Error in water supply

1) Conditions of Occurrence

- ① In case the designated water level is not reached in 5 minutes during water supply or re-supply

2) All LEDs are turned off and 'IE' blinks in 18:88 display.

3) Error buzzer alarm is sounded for 10 seconds per every 10 minutes.

4) Error display is cleared when turning off/ on power.

6-2. OE (Output Error) - Error in drainage

1) Conditions of Occurrence

- ① In case water level does not reach reset point in 10 minutes after drainage starts

2) All LEDs are turned off and 'OE' blinks in 18:88 display.

3) Error buzzer alarm is sounded for 10 seconds per every 10 minutes.

4) Error display is cleared when turning off/ on power.

6-3. UE (Unbalance Error)

1) Conditions of Occurrence

- ① In case main spin-drying is not reached within 20 cycles of balance spin-drying
- ② In case balance spin-drying fails during interim spin-drying, UE occurs as the cycle moves to the next process.

2) All LEDs are turned off and 'UE' blinks in 18:88 display.

3) Error buzzer alarm is sounded for 10 seconds per every 10 minutes.

4) Error mode is cleared by opening door and organizing the laundry in spin-dry chamber, closing door and pressing start/ temporary stop button. Then, spin-drying begins again.

6-4. LE (Lock Error) - Door opening error

1) Conditions of Occurrence

- ① When intending to begin cycle by pressing start/ temporary stop button while door is opened

2) All LEDs are turned off and 'LE' blinks in 18:88 display.

3) Error buzzer alarm is sounded for 10 seconds per every 10 minutes.

4) Error display is cleared when turning off/ on power.

6-5. E1 - Water level detection error

1) Conditions of Occurrence

- ① In case water level is below reset or overflow is detected in line test mode

2) Water supply motor is kept on until water level falls below reset.

3) All LEDs are turned off and 'E1' blinks in 18:88 display.

4) Error buzzer alarm is sounded for 10 seconds per every 10 minutes.

5) Error display is cleared when turning off/ on power.

6-6. E2 - Overflow error

1) Conditions of Occurrence

- ① In case water level in water tank is above overflow level due to continuous operation of water supply valve

2) Water supply motor is kept on until water level falls below reset.

3) All LEDs are turned off and 'E2' blinks in 18:88 display.

4) Error buzzer alarm is sounded for 10 seconds per every 10 minutes.

5) Error display is cleared when turning off/ on power.

6-7. E4 - Water leakage during washing

1) Conditions of Occurrence

- ① In case water level falls below re-supply even after 15 times of re-supply prior to finishing of water heating

2) All LEDs are turned off and 'E4' blinks in 18:88 display.

3) Error buzzer alarm is sounded for 10 seconds per every 10 minutes.

4) Error display is cleared when turning off/ on power.

6-8. E9 - Abnormalities in water level sensor

1) Conditions of Occurrence

- ① In case water level frequency is of 15KHz or lower and 30KHz or higher during cycle due to abnormalities in water level sensor, etc.

2) All LEDs are turned off and 'E9' blinks in 18:88 display.

3) Error buzzer alarm is sounded for 10 seconds per every 10 minutes.

4) Error display is cleared when turning off/ on power.

6-9. Motor-related Error

1) E5 (DC-Link High Voltage) Error

- ① In case DC-link voltage to IPM increases to 450V or higher
- ② Motor operation is stopped and 'E5' is shown in display window.
- ③ Error buzzer alarm is sounded for 10 seconds per every 10 minutes.
- ④ Error display is cleared when turning off/ on power.

2) E6 (EMG) Error

- ① In case current detected with EMG port is of 20A or higher
- ② Motor operation is stopped and 'E6' is shown in display window.
- ③ Error buzzer alarm is sounded for 10 seconds per every 10 minutes.
- ④ Error display is cleared when turning off/ on power.

3) E7 (Direction) Error

- ① In case signal of Hall IC is different from the predicted signal according to direction of rotation
- ② Motor operation is stopped and 'E7' is shown in display window.
- ③ Error buzzer alarm is sounded for 10 seconds per every 10 minutes.
- ④ Error display is cleared when turning off/ on power.

4) E8 (Initial Operation Fail) Error

- ① In case input signal of Hall IC is abnormal due to problems in motor connection, etc.
- ② Motor operation is stopped and 'E8' is shown in display window.
- ③ Error buzzer alarm is sounded for 10 seconds per every 10 minutes.
- ④ Error display is cleared when turning off/ on power.

6-10. Error in Temperature Sensor

1) H2 Error - Washing temperature sensor open/ short

- ① In case washing temperature sensor is defective or not connected
- ② Error buzzer alarm is sounded for 10 seconds per every 10 minutes.
- ③ Error display is cleared when turning off/ on power.

2) H4 Error - Washing temperature sensor overheating

- ① In case temperature detected by washing temperature sensor is 95℃ or higher
- ② Error buzzer alarm is sounded for 10 seconds per every 10 minutes.
- ③ Error display is cleared when turning off/ on power.

3) H5 Error - Water temperature error in wool/ delicate course

- ① In case water temperature in wool/ delicate course is 45 °C or higher
- ② Error buzzer alarm is sounded for 10 seconds per every 10 minutes.
- ③ Error display is cleared when turning off/ on power.

4) H6 Error - Abnormality in washing heater

- ① Within 15 minutes after heater operation begins;
In case standard temperature is of 42 °C or lower: If temperature does not increase by 2 °C or more In
case standard temperature is higher than 42 °C: If temperature does not increase by 1 °C or more
- ② If temperature falls below standard temperature by 2 °C or more due to re-supply of water, etc.,
standard temperature is reset as the current temperature and error check time of 15 minutes is reset.
- ③ Error buzzer alarm is sounded for 10 seconds per every 10 minutes.
- ④ Error display is cleared when turning off/ on power.

5) H8 Error - Washing heater overheating

- ① In case washing heater temperature increases by 5 °C or more within 30 seconds when there is no
water in tank, etc.
- ② Error buzzer alarm is sounded for 10 seconds per every 10 minutes.
- ③ Error display is cleared when turning off/ on power.

■ DWD-LU'S

