

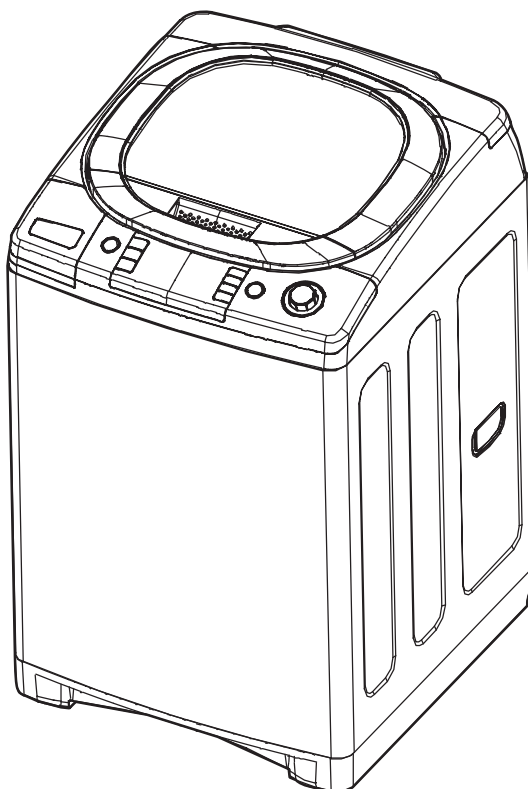
DAEWOO

S/N : WF260NSTC1

Service Guide

Bubble Clothes Washer

DWF-260NSTC



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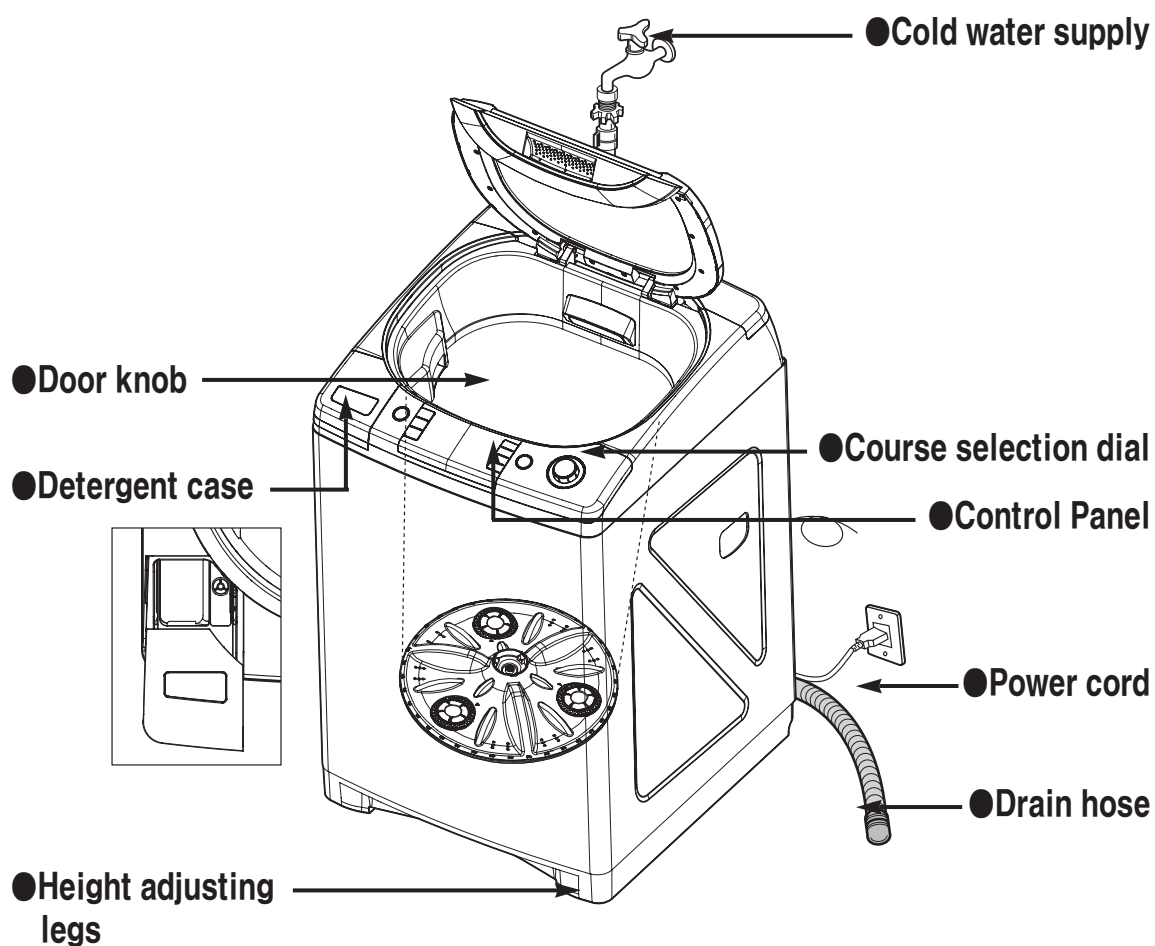
1. Overview of washing machine

1. Comparison of product specifications

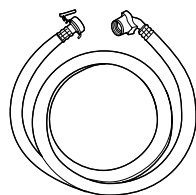
No	Items		DWF-260NSTC
1	Rated power consumption		730W
2	Wash and Spin weight		14kg
3	Weight		48 kg
4	Exterior dimension (WxHxD)		630(W)x700(D)x1039(H)mm
5	Water level	- High	95
		- Mid	83
		- low	61
		- small	50
6	Standard water level		250
7	Control Panel		Front Panel (Course Selection Dial + Option button + Function button)
8	Exterior		Painting & PCM
9	Rated voltage /Frequency		Single Phase AC110V / 60Hz
10	Washing type		Air bubble + TBM Pul
11	Pulsator		TBM Pulsator
12	Control type		Electrical front control
13	Display method		88LED + LAMP
14	Buzzer message method		Single melody
15	Wash Course		standard, Soak, Quick, Wool/ Knitwear, Blanket, Tub clean
16	Water pressure		0.3~8kgf/cm2
17	Water Level		Electronic Sensing
18	Level meter		X
19	Softener auto injection		O
20	Cleaning agent auto injection		O
21	Reserved washing function		O
22	Auto power off		O
23	Alarm functions		O
24	Remaining time displays		O
25	Auto water refill		O
26	Laundry eccentricity correction		O
27	Residue bags		Magic filters (2EA)
28	Height adjustment device		O

Overview of washing machine

2. Names and functions of each part



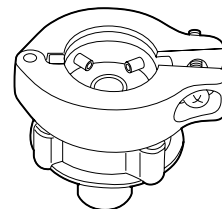
WATER SUPPLY HOSE (1EA)



Drain hose

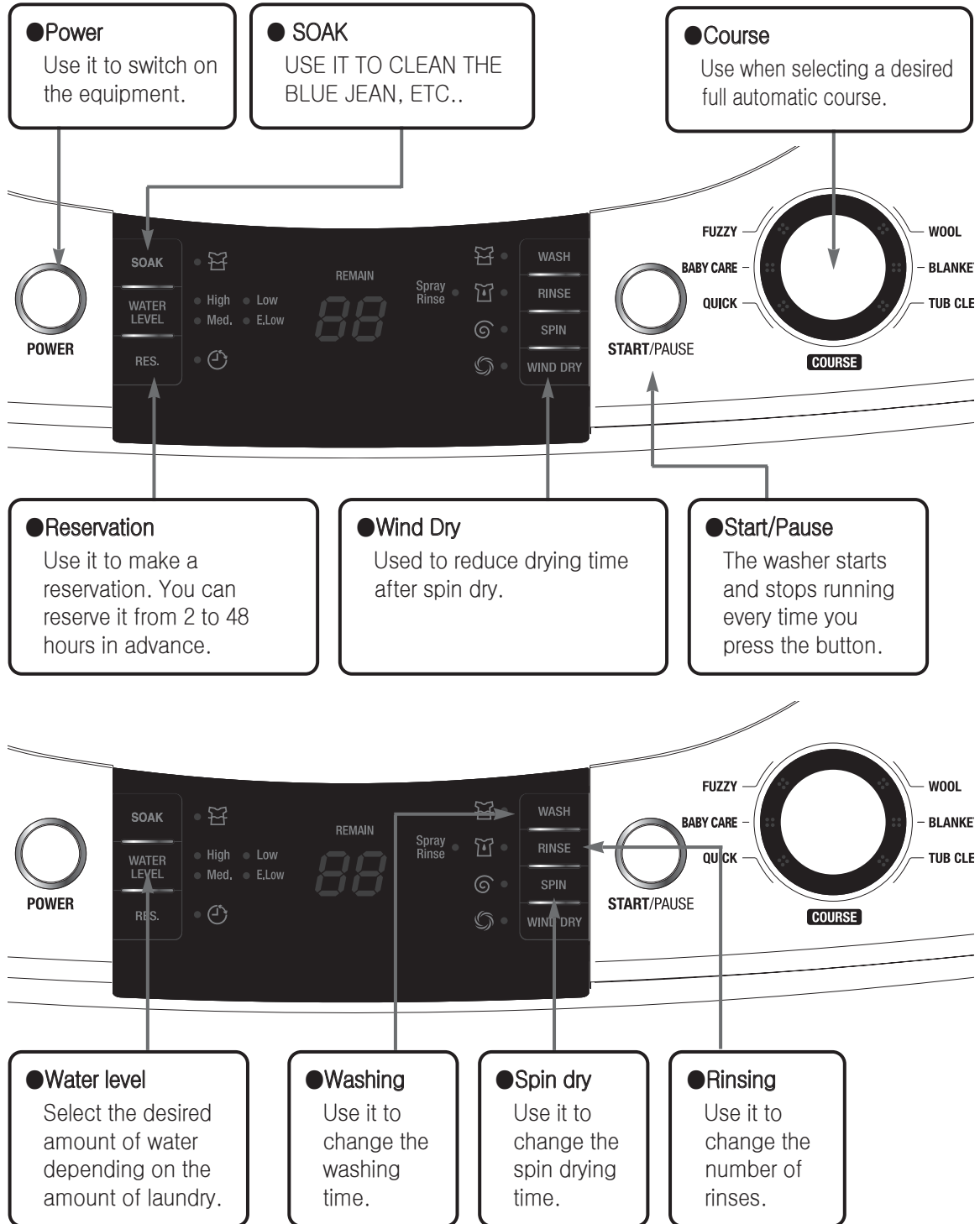


Ultra-convenient water supply fixation (1EA)



Overview of washing machine

3. Functions of the buttons





2. Instructions for using the washing machine

1. Method for using the full automatic course

Standard course (Standard course method)


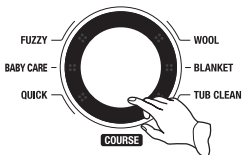


- What is a standard course? In this course, the washer selects the best way to wash your laundry on its own.

<p>1</p> <p>Press the power button.</p> <div style="text-align: center;">  <p>POWER</p> </div> <ul style="list-style-type: none"> ● If you press the power button, the standard course is selected automatically. 	<p>2</p> <p>Close the cap and press the start button.</p> <div style="text-align: center;">  <p>START/PAUSE</p> </div> <ul style="list-style-type: none"> ● The remaining time is displayed and the sensor takes care of the laundry on its own.
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- * When the washing is finished, the buzzer is heard and the power turns off automatically.
- * The buzzer turns on and the machine automatically turns off when washing cycle is complete.

BABY CARE course

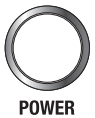
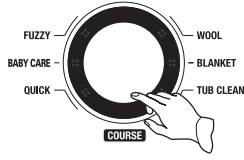


- THIS SELECTION IS EFFECTIVE FOR BABY CLOTHES.

<p>1</p> <p>Press the power button.</p> <div style="text-align: center;">  <p>POWER</p> </div>	<p>2</p> <p>Press course selection to select "Baby Care".</p> <div style="text-align: center;">  <p>Select "Baby Care"</p> </div>	<p>3</p> <p>Select the water temperature and water level.</p> <div style="text-align: center;">  </div> <ul style="list-style-type: none"> ● The default setting is high for water level and 2 time general rinsing and 5 minutes of spin drying. 	<p>4</p> <p>Press the start button.</p> <div style="text-align: center;">  <p>START/PAUSE</p> </div>
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Instructions for using the washing machine


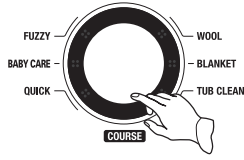


Quick course

■ This is an economic course where you can save time and water use.

<p>1</p> <p>Press the power button.</p>  <p>POWER</p>	<p>2</p> <p>Press course selection to select "Quick".</p>  <p>Select "Quick"</p>	<p>3</p> <p>Select the water temperature and water level.</p>  <p>● The default setting is low for water level and 1 time general rinsing and 3 minutes of spin drying.</p>	<p>4</p> <p>Press the start button.</p>  <p>START/PAUSE</p>
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* 필요시 물높이, 세탁시간, 탈수시간 및 행굼 횟수 변경이 가능합니다.

Wool/ knitwear course

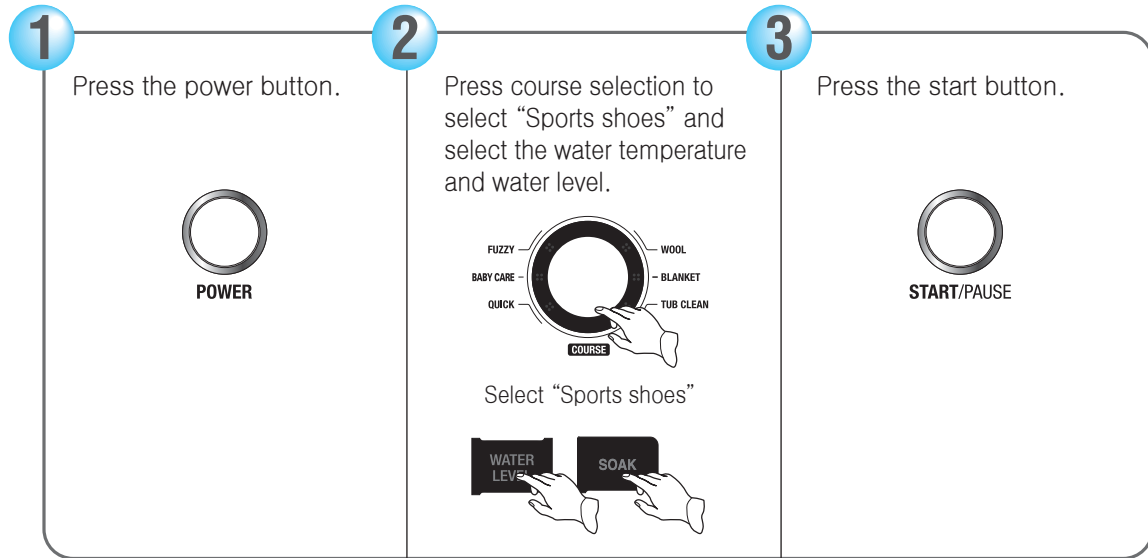
<p>1</p> <p>Press the power button.</p>  <p>POWER</p>	<p>2</p> <p>Press course selection to select "Wool/knitwear".</p>  <p>Select "Wool/knitwear"</p>	<p>3</p> <p>You must pour neutral cleaning agent in the cleaning agent case.</p>  <p>● The default setting is mid for water level and 2 times general rinsing and 1 minute of spin drying.</p>	<p>4</p> <p>Close the cleaning agent case and the cap and start the start button.</p>  <p>START/PAUSE</p> <p>● When washing is completed, take out the laundry and dry it in shade.</p>
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- * This course is used for washing sweaters, cardigans, lingerie and stockings.
- * Do not use it for dry cleaning clothes, leathers or cashmere.
It can cause deformation or contraction.
- * To prevent deformation, the water temperature should be cold, the water level should be middle or high.
- * Additional washing, rinsing or spin dry can't be done.
- * Do not exceed the amount of laundry— 3kg for each washing session.

Instructions for using the washing machine

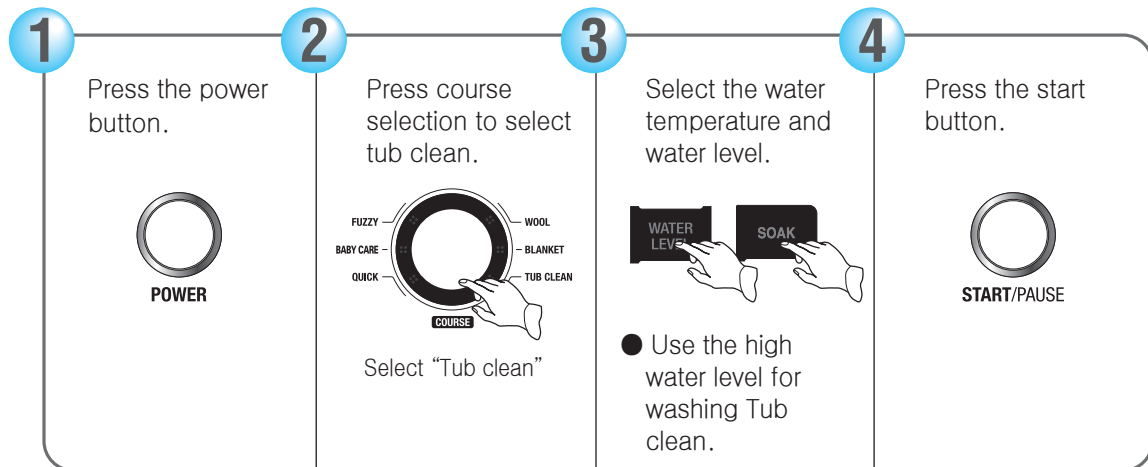
Sports shoes course

- Used to wash sports shoes.



Tub clean course

- If you clean the washing tank once a month, you can keep it clean at all times.






- * Do not put laundry in during a tub clean course.
- * Use the recommended detergent (oxygen-based whitener).
(Do not use chloride based whiteners.)

Instructions for using the washing machine



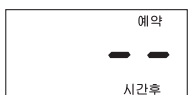



Wind dry course

- The wind is used to remove additional moisture from the laundry, so it can reduce drying time.

<p>1</p> <p>Press the power button.</p> <div style="text-align: center;">  <p>POWER</p> </div>	<p>2</p> <p>Press the wind dry button to select a drying time. (10, 20, 30, 40 minutes)</p> <div style="text-align: center;">  <p>WIND DRY</p> </div> <p>● Use it for a small amount of laundry.</p>	<p>3</p> <p>Press the start button.</p> <div style="text-align: center;">  <p>START/PAUSE</p> </div>
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Reservation washing course

- Set the desired finish time. It will start and finish washing while you are out or asleep.
You can reserve up to 2 to ~48 hours.

<p>1</p> <p>Press the power button.</p> <div style="text-align: center;">  <p>POWER</p> </div> <p>● Automatically, the “standard course” is selected.</p> <p>● If you want to select another course, – Press the course button to select the desired course. (Can change the water level and temperature.)</p>	<p>2</p> <p>Press the reserve button.</p> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <p>● “— —” will blink.</p>	<p>3</p> <p>Keep pressing the reserve button to select the desired time. Ex) After 8 hours, washing is completed by reservation.</p> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <p>● The number will blink.</p>	<p>4</p> <p>Close the cap and press the start button to finish making a reservation.</p> <div style="text-align: center;">  <p>START/PAUSE</p> </div>
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* The Wool/Knitwear course or Tub clean course cannot be reserved.

Instructions for using the washing machine

2. Progress of washing/rinsing and spin drying

- If you only want washing, rinsing and spin drying, then do as follows.



Use each button to change the setting.

- ※ When the clean rinsing lamp is on, clean rinsing will proceed.
- ※ In the wool or washing tank cleaning course, you can't control washing, rinsing, spin drying.

- If you want only draining, please follow the directions below.



- ※ The control panel will display **LE** with beeping, indicating draining is finished. Turn off the power.

- The washing time is changed as in the following sequence.

6 → 10 → 14 → 15 → 18 → 0 → 6 minutes. If you don't want a washing cycle, please select 0.

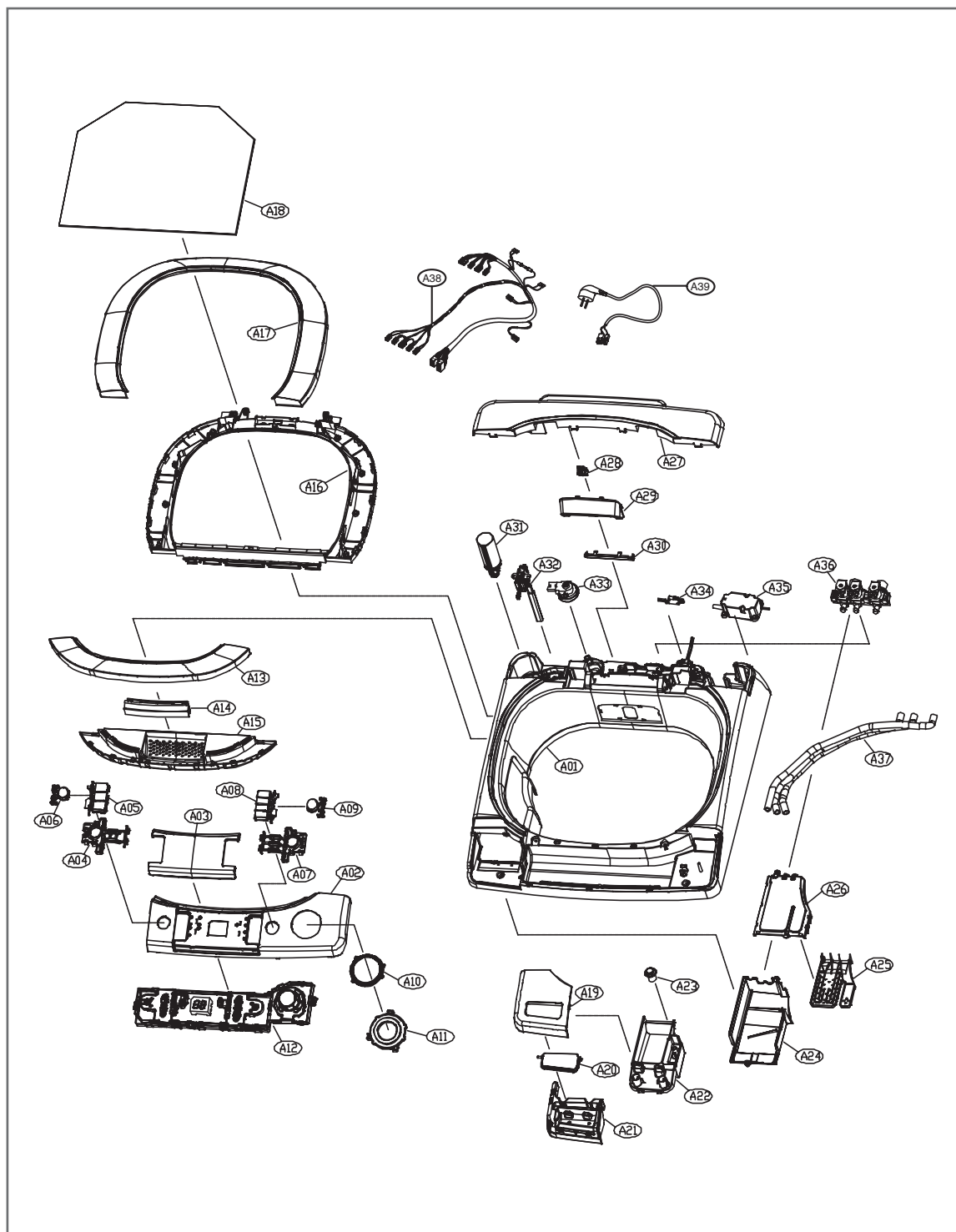
- The number of rinses is changed as in the following sequence.

General1 → General2 → General3 → General4 → Clean rinsing 1 → Clean rinsing 2 → Clean rinsing 3 → Clean rinsing 4 → 0 → General 1. If you don't want a rinsing cycle, please select 0.

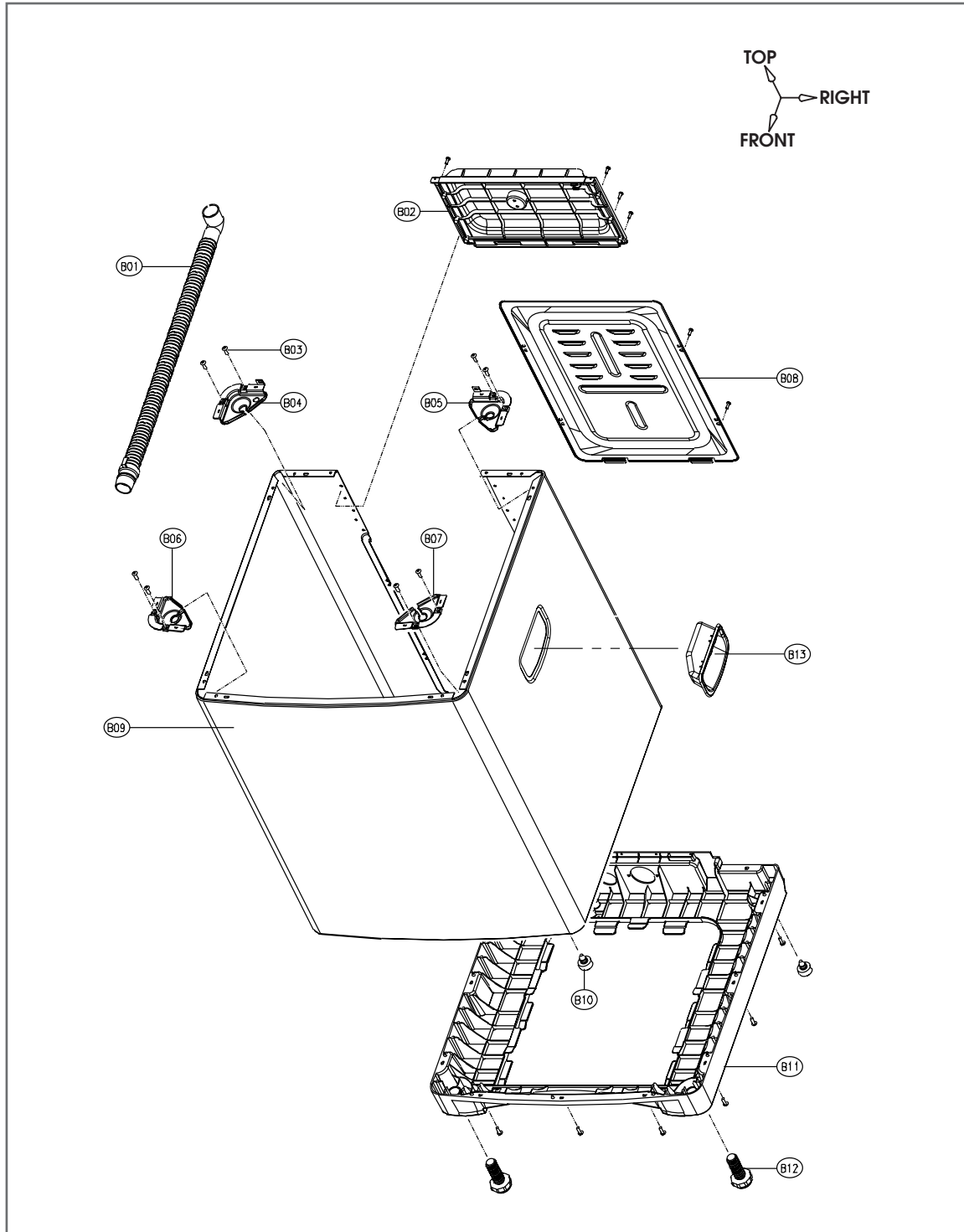
- The spin drying time is changed as in the following sequence. 4 → 5 → 7 → 9 → 0 → 1 → 3 → 4 → minutes. If you don't want a spin drying cycle, please select 0.

EXPLODED VIEW DIAGRAM

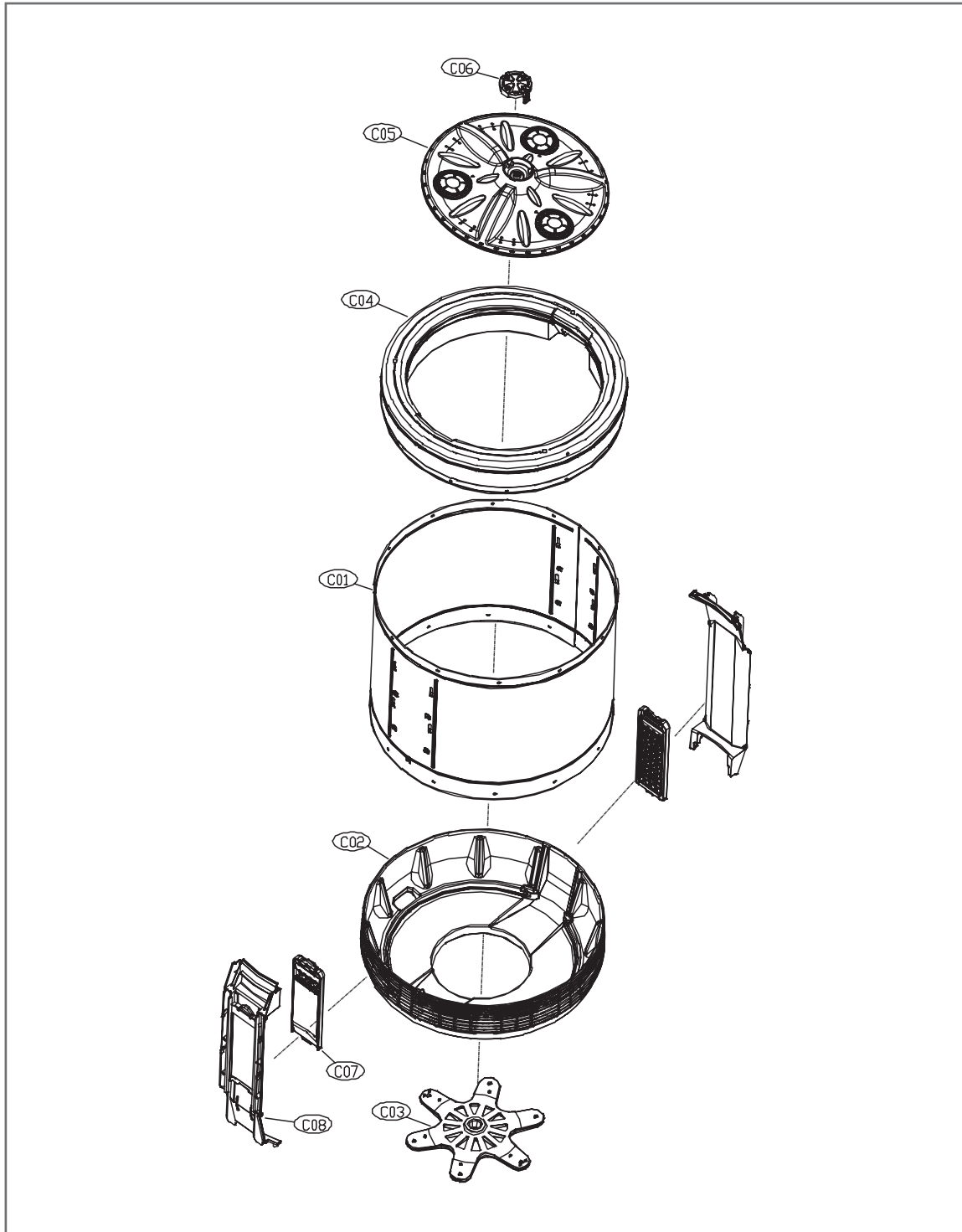
2. EXPLODED VIEW DIAGRAM



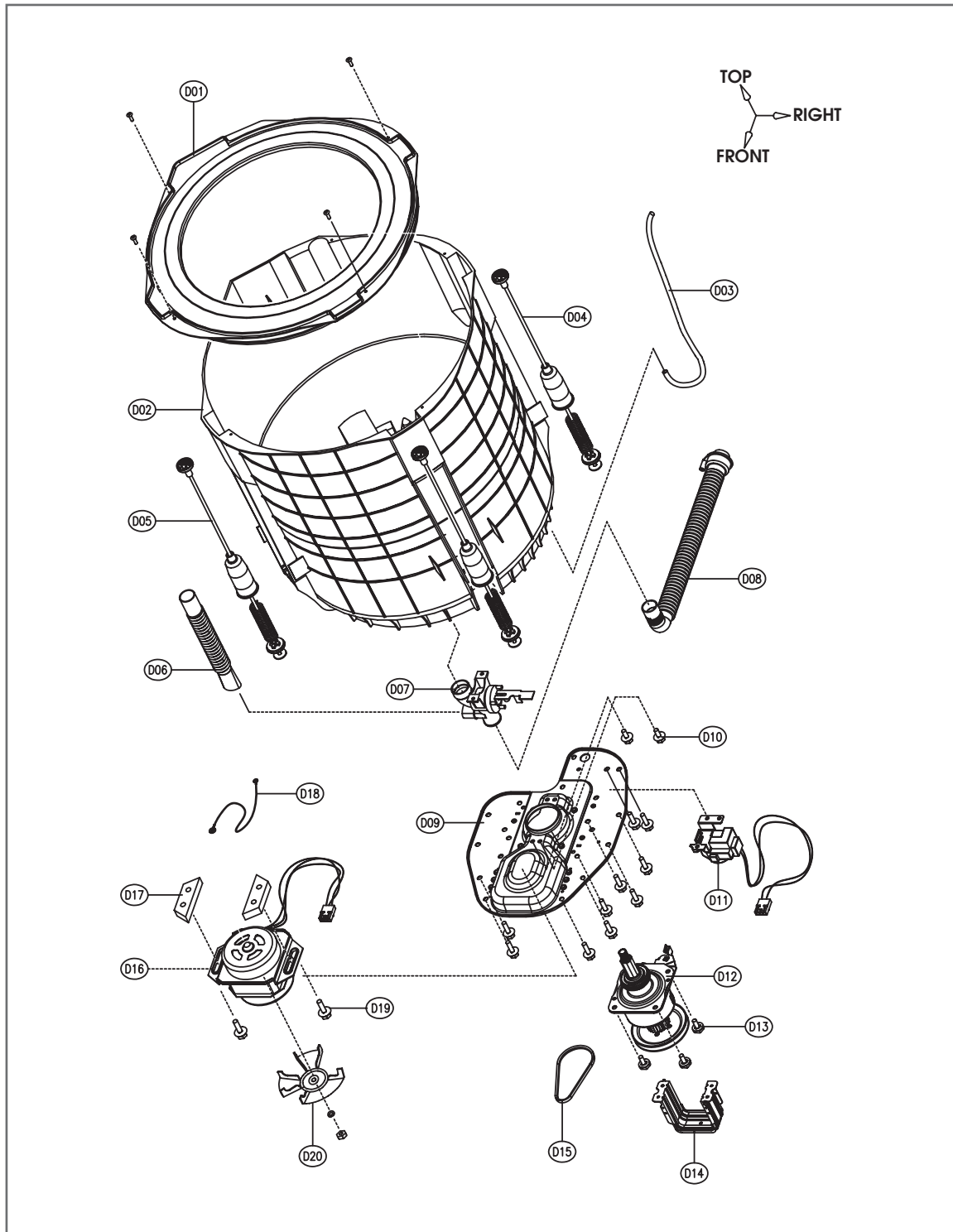
EXPLODED VIEW DIAGRAM



EXPLODED VIEW DIAGRAM



EXPLODED VIEW DIAGRAM



PARTS LIST

3. PARTS LIST

1. PARTS LIST

NO	PARTS CODE	PARTS NAME	DESCRIPTION	Q'TY	REMARK
A01	3614543600	PLATE T	ABS	1	DWF-260NSTC
A02	36142T5300	PANEL F	ABS	1	
A03	3615515200	WINDOW DISPLAY	ABS	1	
A04	36116DWV00	DECO POWER BUTTON	ABS	1	
A05	3616650600	BUTTON OPTION	ABS(SPRAY)	1	
A06	3616650800	BUTTON POWER	ABS(SPRAY)	1	
A07	361DWW00	DECO BUTTON START	ABS	1	
A08	3616650700	BUTTON FUNCTION	ABS(SPRAY)	1	
A09	3616650900	BUTTON START	ABS(SPRAY)	1	
A10	36116DWX00	DECO COURSE	ABS	1	
A11	3615515300	WINDOW COURSE	ABS	1	
A12	PRPSSW264N	PCB AS	DWF-260NSTC	1	
A13	36117AZA00	DOOR F OUTER	ABS	1	
A14	3611433900	COVER HANDLE DOOR	ABS	1	
A15	36117AZ900	DOOR F INNER	ABS	1	
A16	36117AZ700	DOOR B INNER	ABS	1	
A17	36117AZ800	DOOR B OUTER	ABS	1	
A18	36117AZB00	DOOR GLASS	GLASS, 150N	1	
A19	3612615100	CASE HANDLE	ABS(SPRAY)	1	
A20	3612615300	HANDLE COVER	ABS(SPRAY)	1	
A21	3612615200	CASE BODY	ABS(SPRAY)	1	
A22	36111T4S00	CASE DETERGENT	PP	1	
A23	3610921100	CAP SOFTNER	PP	1	
A24	3610529300	INLET BOX	PP	1	
A25	3618113400	NOZZLE UNDER	PP	1	
A26	3618113300	NOZZLE UPPER	PP	1	
A27	36142T5200	LAMEP LED	ABS(SPRAY)	1	
A28	3613625600	LAMP LED	DWF-320, LED LAMP	1	
A29	36111T1X10	CASE LAMP	ABS 320L	1	
A30	3615509900	WINDOW LAMP	ABS(TR)	1	
A31	3618929100	UNIT CAPACITOR	54UF 200VAC, CAN, P2	1	
A32	3619047020	SWITCH SAFATY	SF-030A21 14T 5BEND NON-ARM	1	
A33	3614801651	SENSOR PRESSURE AS	CDL-D17N-1, 3PIN,L=715, ONLY NTEKO	1	
A34	3619045400	SWITCH COVER	GSM-V16183A4 250V 16A	1	
A35	3618919055	UNIT BUBBLE PUMP AS	CDK-115N,KETD/L,CON.BLUE HOSE=750, 4 CUSHION,PAD:D	1	
A36	3615416332	VALVE INLET	DR-12AS:C-R.110-130V50/60HZ,NON-O.PACKING+RUBBER	1	
A37	3613270900	HOSE	EPDM ID9.5 OD14.5	3	
A38	361279B790	HARNESS AS	DWF-150N 110V, COLD, BB	1	
A39	3611341110	CORD POWER AS	7A125V0.75SQ VCTFK TAIWAN LP-70 2.3M	1	

PARTS LIST

NO	PARTS CODE	PARTS NAME	DESCRIPTION	Q'TY	REMARK
B01	3613218800	HOSE DRAIN OUTER AS	LD-PE/EVA L=1600 PUMP	1	
B02	3614538Y00	PLATE UPPER	PP	1	
B03	7122501211	SCREW TAPPING	T2S TRS 5x12 MFZN	8	
B04	3615302220	SUPPORTER TUB BL	SPG 1.6T	1	
B05	3615302320	SUPPORTER TUB BR	SPG 1.6T	1	
B06	3615302420	SUPPORTER TUB FL	SPG 1.6T	1	
B07	3615302520	SUPPORTER TUB FR	SPG 1.6T	1	
B08	3611413605	COVER BACK	0.35T	1	
B09	361081W680	PCM CABINET	METAL PCM T0.7	1	
B10	3612100330	FOOT	BUTYL VE	2	
B11	3610312210	BASE U	PP (DWF-1398)	1	
B12	3617702122	LEG ADJUST AS	VE	2	
B13	3612603300	CABINET HANDLE	PP	2	
B14	36189L608F	UNIT DRAIN PUMP AS	HIGH/50HZ,40W KET1806D/L,BK,BB CUT,HOSE 1230MM	1	
C01	3618831410	TUB I	SUS 0.4X398.5X1636	1	
C02	3618831500	TUB U	13KG 1 PIECE FRPP	1	
C03	3617200600	FLANGE TUB	ALDC12 VE1, 6POINT	1	
C04	3616104000	BALANCER AS	DWF-1094	1	
C05	3619707410	PULSSATOR	NANO,106KA	1	
C06	3610915900	CAP PULSATOR	PP, DWF-178W TBM	1	
C07	3611911500	MAGIC FILTER AS	13KG MAGIC 1 PIECE	2	
C08	3612504700	GUIDE FILTER AS	10KG 1 PIECE	2	
D01	3611413910	TUB COVER	RECYCLE-PP,DWF-1398	1	
D02	3618807105	TUB O	DWF-12,13KG,SINSUNG	1	
D03	3613265901	HOSE BUBBLE	L=1250MM,ID=4	1	
D04	3619803920	SUSPENSION AS (B)	DWF-150Q/DWF-260QXSP	2	
D05	3619803820	SUSPENSION AS (F)	DWF-150Q/DWF-260QXSP	2	
D06	3613208901	HOSE OVERFLOW	PELD, L=280MM	1	
D07	3615408400	VALVE DRAIN AS	1098'S,VE TYPE	1	
D08	3613212120	HOSE DRAIN *I	EVA,L=184	1	
D09	3610387400	BASE	SECEN 2.0T	1	
D10	3616007001	SPECIAL SCREW	SCM24H,6.5*24 101S	12	
D11	36196TAX00	DRAIN MOTOR	100-110V,SV-HJ7T24D,KET 3P#1806,L480,RD	1	
D12	3617310200	GEAR MECHANISM	GM-1300-KS6P2(SPUR)	1	
D13	7341801511	BOLT HEX	6B-1 8*15 MFZN	4	
D14	3618346000	PROTECTOR GEAR	SGCC1.2T	1	
D15	3616590240	BELT V	M20.5, AGING 60HZ	1	
D16	3964221060	MOTOR CONDENSER	WM244EA014,110V/60HZ,690L,MOLEX(35150-0309)	1	
D17	3611502700	CUSHION DOWN	POM(8MM)	1	
D18	3612757030	HARNESS EARTH INNER	L ID=4.3,R ID=8.3,L=810	1	
D19	7650802528	BOLT HEX	6B-1 8*25 PW(3*28) MFZN	4	
D20	3618403510	PULLEY MOTOR AS	M-TYPE DS=12 DP=52.5 60HZ	1	

4. Front panel (PANEL F AS) & rear panel disassembly method

1. Front panel disassembly method

1. Detach the detergent container and then remove the fixing screw on the front panel.



2. Move the front panel to the right side and then remove the fixing hook.



3. Separate the fixing screw for PCB assembly and then remove the PCB assembly.

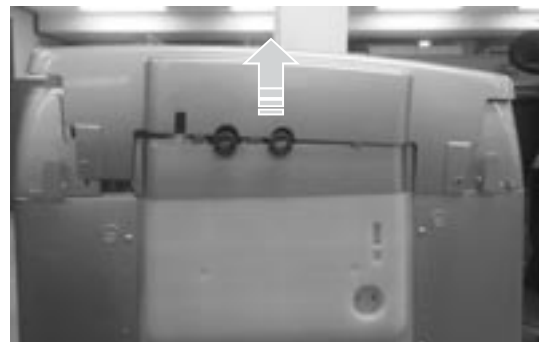


1. Rear panel disassembly method

1. Remove the fixing screw on the rear panel.



2. Lift the rear panel to remove.





5. How to Disassemble/Assemble Clutch Boss ASS'Y of Gear Mechanism

1. Symptoms of Clutch Spring Problems

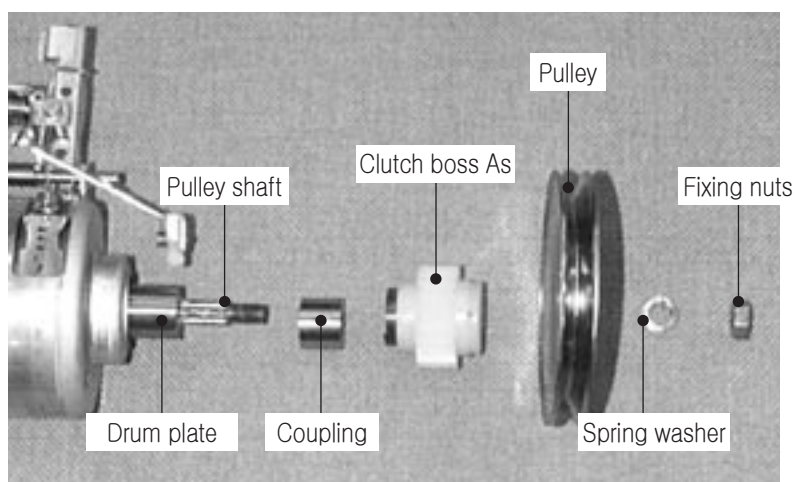
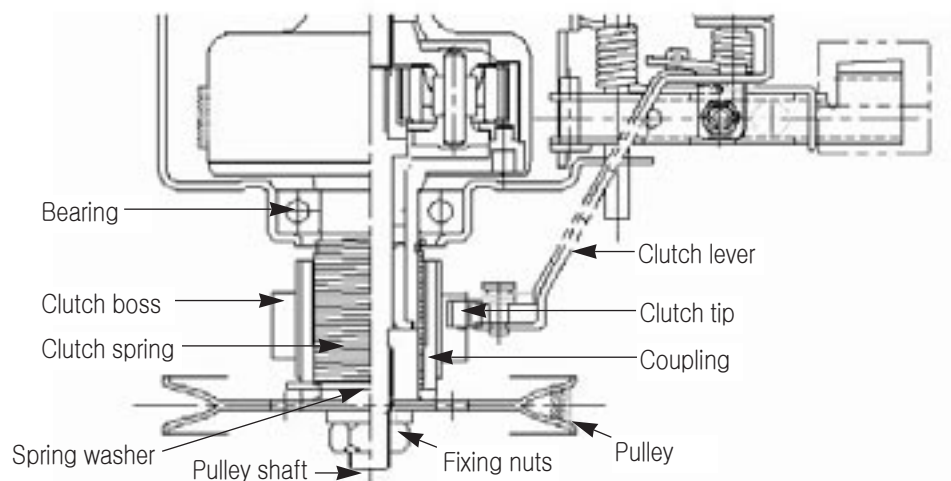
▣ Types of Gear Mechanism Problems Caused by the Clutch Spring

Symptoms	Details	Causes(Problems)	Troubleshooting
Spin-drying problems	Poor or weak spin-drying	Loosened clutch spring	Replacing the clutch boss ass'y
Oscillation during spin-drying	Earlier spinning of the pulsator Excessive oscillation due to tangled laundry Washing, water supply, beeping, or an error during spin-drying	▶ Slip causing the spinning of the pulsator, which results in tangled laundry or oscillation and makes spin-drying impossible	
Noises during spin-drying	Quivering sounds during spin-drying	Shaking of the clutch boss	
	Rattling sounds when the tub stops spinning	Grease attached to the clutch spring	Replacing the clutch boss ass'y
Noises during washing	Squeaky sounds during washing	Impurities collected in the clutch spring	Replacing the clutch boss ass'y
	Clapping sounds during washing	Entangled spring due to excessive end-play	Replacing the clutch boss ass'y
	Rattling sounds during washing	Spinning of the clutch boss due to collected grease	Replacing the clutch boss ass'y
No washing	No washing/Error on right-rotating	Error on coupling due to grease	Replacing the clutch boss ass'y

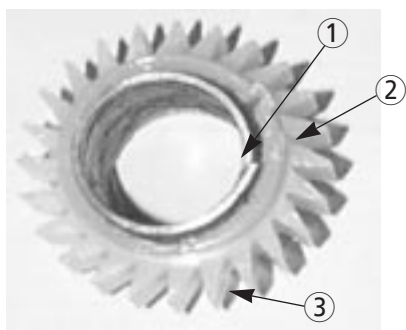
2. Clutch Spring Improvement

Parts	Before	After	Modified Dates and effects
CLUTCH SPRING			Pre-spinning of the pulsator prevented by improving the contact area during spinning
Remarks	▶ Inner diameter: 42.71 ± 0.06 →	24.69 ± 0.06	November 27, 2007
	▶ wire rod: $1.5 \times 1.5 \times H40.5$ → (Right 25 1/2 Strands)	$1.5 \times 1.2 \times H40.5$ (Number of strands=31 3/4 Strands)	November 27, 2007

3. Drawing of the Gear Mechanism for Repair GEAR MECHANISM



4. Composition of the Clutch Boss Ass'y [3610028000] Parts


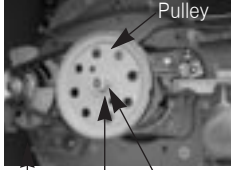
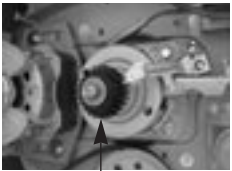
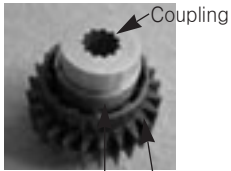
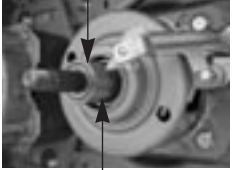


NO.	Parts	Dimensions	Number
1	Clutch spring	1.2 × 1.5	1
2	Clutch boss	PP	1
3	Gress	Beacon #325	3g

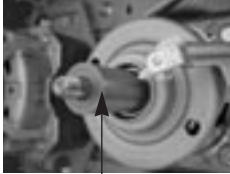
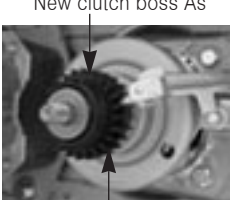
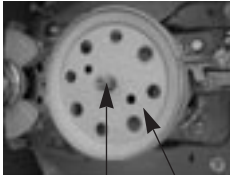
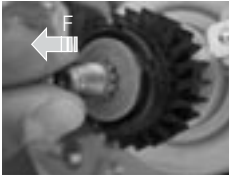
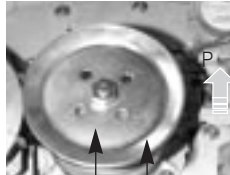

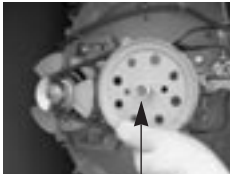
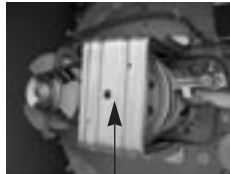
※ Filling of gress (3g) at 3 points of the inner rib of the boss

How to Disassemble/Assemble

5. How to Disassemble

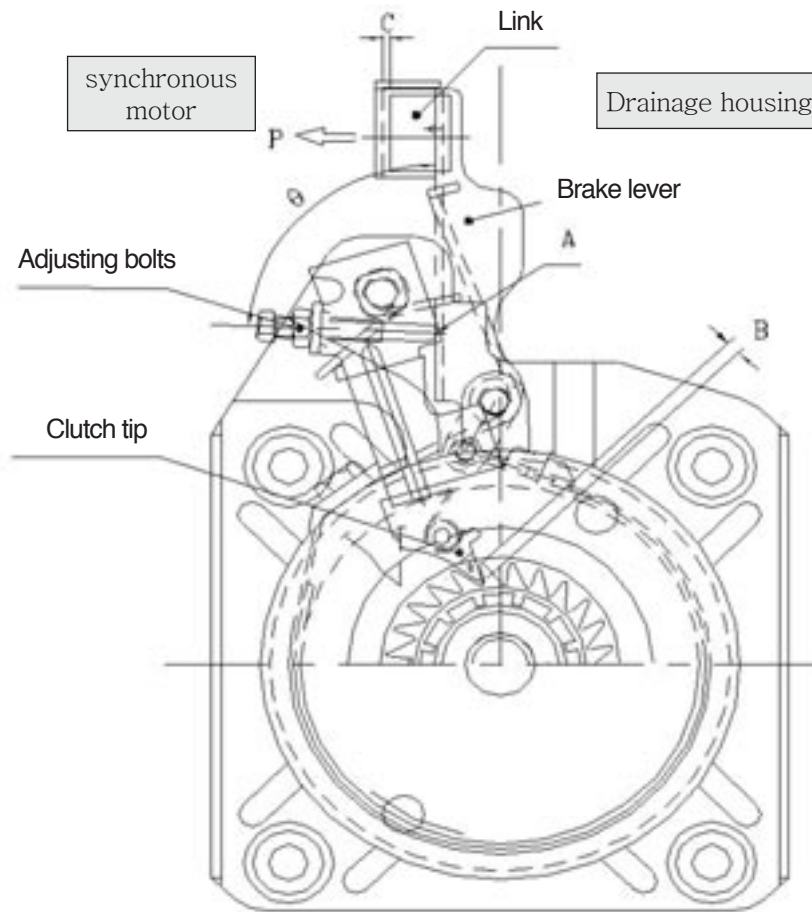
NO	Steps		NO	Steps	
1		<ul style="list-style-type: none"> ▶ Remove protector gear fixing bolts - 2~4 spots ▶ Detach the motor wire ▶ Use a hexagonal wrench or driver 	2		<ul style="list-style-type: none"> ▶ Remove the fixing bolts ▶ Hold the belt tight. ▶ Use a hexagonal wrench
	Protector gear fixing bolts at 2~4 spots	– Socket: 10 mm		Belt Pulley Fixing nuts Spring Washer	– Socket : 17mm
3		<ul style="list-style-type: none"> ▶ Remove the belt and pulley ▶ Remove the clutch boss As ' by turning it counterclockwise 	4		▶ Remove the coupling inside the clutch spring by turning it clockwise
	Clutch Boss As			Coupling Clutch Boss Clutch Spring	
5		<ul style="list-style-type: none"> ▶ Remove hardened grease colleted on the outer surface/top of the drum plate ▶ Remove hardened grease colleted on the outer surface of the coupling 	6		
	Drum Plate Part to be washed Drum Coupling				

6. How to Assemble

NO	Steps		NO	Steps	
1	 There is a stepped pulley	<ul style="list-style-type: none"> ▶ Insert the coupling → Be careful of the stepped pulley ▶ The stepped pulley of the coupling shall be inserted in the direction that the pulley is fastened 	2		<ul style="list-style-type: none"> ▶ Insert the clutch boss As' by turning it clockwise ▶ Be careful that the clutch spring is not twisted (It may cause malfunction/noises) ▶ Be careful that no separation of the hook occurs (It may cause malfunction of washing/spinning)
3	 ▶ Insert the pulley	 ▶ Insert the pulley by pulling hard the pulley shaft in the F direction	4		 <ul style="list-style-type: none"> ▶ Use a hexagonal wrench: 17mm socket ▶ Nut fixing torque : 100~200kgf/cm
5	 ▶ Belt assembly (Fasten hard the nuts after assembling the belt by holding the belt tight)	<ul style="list-style-type: none"> ▶ Adjust the tension by loosening the bolts of the motor to prevent excessive noises which may occur in case the tension is too low (400gf or lower) or too high (600gf or higher) ▶ Bolts fixed at 2~4 spots ▶ Tension: 400~600gf-cm 	6	 ▶ Fix the protector gear ▶ Bind the motor wire (Cable wires)	▶ Excessive noises may occur during spinning if the gear is not properly fixed

7. Final Inspection

7-1. Sketch



- ◆ An opening, caused at A (distance of insulation spacer)/B(gap of the adjusting bolt) due to abrasion of a brake lining, shall be adjusted.

7-2. Specs for gaps

구 분	Spec	Cycles
A	0	Gap between the brake lever and adjusting bolt
B	3.5~4.5	Insertion depth of the clutch tip in the clutch boss
C	2.5~3.5	Insulation distance of the brake lever and the link

3. Electric Circuit

1. SEQUENCE CHART

Classification		Time	Standard					Tub clean
			Small	Low	Med	High	Standard	High
Pre-wash & Wash	Sensing	8 sec	■	■	■	■	■	
	Water inlet	4 min			■	■	■	■
		2 min	■	■	■	■	■	■
	Soak	30 min						■ 60s
	Wash	18 min					■	
		15 min			■	■	■	
		10 min	■	■	■	■	■	■
		6 min	■	■	■	■	■	■
bc 35 sec		■	■	■	■	■	■	
Rinse	Drain	3 min	■	■	■	■	■	■
		1 min	■	■	■	■	■	■
	B spin	60 sec	■	■	■	■	■	■
		30 sec	■	■	■	■	■	■
	Mid spin	60 sec	■	■	■	■	■	■
		30 sec	■	■	■	■	■	■
		30 sec	■	■	■	■	■	■
	Inertia + stop	120 sec	■	■	■	■	■	■
		60 sec	■	■	■	■	■	■
		40 sec	■	■	■	■	■	■
	Water inlet	4 min			■	■	■	■
		2 min	■	■	■	■	■	■
Rinse	3 min						■	
	2 min	■	■	■	■	■ 1m	■	
	bc 35 sec	■	■	■	■		■	
Rinse	Drain	3 min	■	■	■	■	■	■
		1 min	■	■	■	■	■	■
	B spin	60 sec	■	■	■	■	■	■
		30 sec	■	■	■	■	■	■
	Mid spin	60 sec	■	■	■	■	■	■
		30 sec	■	■	■	■	■	■
		30 sec	■	■	■	■	■	■
	Inertia + stop	120 sec	■	■	■	■	■	■
		60 sec	■	■	■	■	■	■
		40 sec	■	■	■	■	■	■
	Water inlet	4 min			■	■	■	■
		2 min	■	■	■	■	■	■
	Rinse	3 min						■
		2 min	■	■	■	■	■ 1m	■
		bc 35 sec	■	■	■	■		■
Spin	Drain	3 min	■	■	■	■	■	■
		1 min	■	■	■	■	■	■
	B spin	60 초	■	■	■	■	■	■
		30 sec	■	■	■	■	■	■
	Spin	9 min						
		7 min						
		5 min			■	■	2m	
		3 min	■	■	■	■	■	■
		1 min	■	■	■	■	■	■
	Inertia + stop	120 sec	■	■	■	■	■	■
60 sec		■	■	■	■	■	■	
Terminate the Buzzer		10 sec.	■	■	■	■	■	
Remain Time Display			43	43	56	56	54	2H
NOTE								

ELECTRIC CIRCUIT

Classification		Time	Baby Care			
			Small	Low	Med	High
Pre-wash & Wash	Sensing	8 sec				
	Water inlet	4 min				
		2 min	■	■	■	■
	Soak	30 min				
	Wash	10 min	■	■	■	■
6 min		■	■	■	■	
bc 35sec		■	■	■	■	
Rinse	Drain	3 min	■	■	■	■
		1 min				
	B spin	60 sec	■	■	■	■
		30 sec	■	■	■	■
	Mid spin	60 sec	■	■	■	■
		20 sec	■	■	■	■
	Ineria + stop	120 sec	■	■	■	■
		60 sec	■	■	■	■
		40 sec	■	■	■	■
	Water inlet	4 min			■	■
		2 min	■	■	■	■
	Rinse	3 min	■	■	■	■
2 min		■	■	■	■	
bc 35sec		■	■	■	■	
Rinse	Drain	3 min	■	■	■	■
		1 min				
	B spin	60 sec	■	■	■	■
		30 sec	■	■	■	■
	Mid spin	60 sec	■	■	■	■
		20 sec	■	■	■	■
	Ineria + stop	120 sec	■	■	■	■
		60 sec	■	■	■	■
		40 sec	■	■	■	■
	Water inlet	4 min			■	■
		2 min	■	■	■	■
	Rinse	3 min	■	■	■	■
2 min		■	■	■	■	
bc 35sec		■	■	■	■	
Rinse	Drain	3 min	■	■	■	■
		1 min	■	■	■	■
	B spin	60 sec	■	■	■	■
		30 sec	■	■	■	■
	Mid spin	60 sec	■	■	■	■
		20 sec	■	■	■	■
	Ineria + stop	120 sec	■	■	■	■
		60 sec	■	■	■	■
		40 sec	■	■	■	■
	Water inlet	4 min			■	■
		2 min	■	■	■	■
	Rinse	3 min	■	■	■	■
2 min		■	■	■	■	
bc 35sec		■	■	■	■	
Spin	Drain	3 min	■	■	■	■
		1 min	■	■	■	■
	B spin	60 sec	■	■	■	■
		30 sec	■	■	■	■
	Spin	7 min				
		5 min				
		3 min	■	■	■	■
	1 min	■	■	■	■	
Ineria + stop	120 sec	■	■	■	■	
	60 sec	■	■	■	■	
Terminate the Buzzer		10 sec.	■	■	■	■
Remain Time Display			57	57	65	65

ELECTRIC CIRCUIT

Classification		Time	Blanket				Wool	
			Small	Low	Med	High	Med	High
Pre-wash & Wash	Sensing	8 sec.						
	Water Inlet	4 min.						
		2 min.						
		2 min.						
	Soak	30 min.						
	Wash	18 min.						
		15 min.						
		10 min.						
6 min.								
BC 35 sec.								
Rinse	Drain	3 min.						
		1 min.						
	B Spin	60 sec.						
		30 sec.						
	Mid Spin	60 sec.						
		20 sec.						
	Inertia+Stop	120 sec.						
		60 sec.						
		40 sec.						
	Water Inlet	4 min.						
		2 min.						
	Rinse	3 min.						
2 min.								
BC 35 sec.								
Rinse	Drain	3 min.						
		1 min.						
	B Spin	60 sec.						
		30 sec.						
	Mid Spin	60 sec.						
		20 sec.						
	Inertia+Stop	120 sec.						
		60 sec.						
		40 sec.						
	Water Inlet	4 min.						
		2 min.						
	Rinse	3 min.						
2 min.								
BC 35 sec.								
Spin	Drain	3 min.						
		1 min.						
	B Spin	60 sec.						
		30 sec.						
	Spin	9 min.						
		7 min.						
		5 min.						
		3 min.						
	Inertia+Stop	1 min.						
120 sec.								
60 sec.								
Terminate the Buzzer		10 sec.						
Remain Time Display			55	55	61	61	36	36
NOTE								

ELECTRIC CIRCUIT

Classification		Time	Quick			
			Small	Low	Med	High
Pre-wash & Wash	Sensing	8 sec				
	Water inlet	4 min				
		2 min	■	■	■	■
	Soak	30 min				
	Wash	18 min				
		15 min				
		10 min				
		6 min	■	■	■	■
bc 35sec		■	■	■	■	
Rinse	Drain	3 min				
		1 min	■	■	■	■
	B spin	60 sec	■	■	■	■
		30 sec	■	■	■	■
	Mid spin	60 sec				
		10 sec	■	■	■	■
	Ineria + stop	120 sec				
		60 sec	■	■	■	■
		40 sec	■	■	■	■
	B spin	60 sec	■	■	■	■
		30 sec	■	■	■	■
	Mid spin	60 sec				
		10 sec	■	■	■	■
	Ineria + stop	120 sec				
		60 sec	■	■	■	■
		40 sec	■	■	■	■
	Water inlet	4 min				
		2 min	■	■	■	■
Rinse	3 min					
	2 min	■	■	■	■	
	bc 35sec	■	■	■	■	
Spin	Drain	3 min				
		1 min	■	■	■	■
	B spin	60 sec	■	■	■	■
		30 sec	■	■	■	■
	Spin	9 min				
		7 min				
		5 min				
		3 min	■	■	■	■
Water inlet	1 min	■	■	■	■	
	120 sec					
		60 sec	■	■	■	■
Terminate the Buzzer		10 sec.	■	■	■	■
Remain Time Display			23	23	27	27
NOTE						

2. Functional Test Mode

1) Inspection of Option, LED and Buzzer (Initial Test Mode)

1] Initiation of Initial Test Mode

1> The mode to test option, LED and buzzer is initiated when turning on the power button with "Wash, Rinse, and Spin Dry" buttons pressed.

2] The mode to test option, LED and buzzer is executed as directed below.

Order	Inspection Items	Duration	LED Display	Buzzer	Note
1	Inspect the volume of washer	1 sec	88DISPLAY: 15		15Kg
2	Check L/S data	1 sec	88DISPLAY: L1~8 Other LED: OFF		
3	Program version	2 sec	88DISPLAY: t3 Other LED: OFF		
4	Check LED and buzzer	8 sec	88DISPLAY & other LED: On & off for 0.5 sec repetitively	Beep sound when LED on	

3] The washer turns off with power sound when the inspection procedure above is complete.

4] The stored L/S values are displayable by pressing the water level button in the course of the inspection cycle.

2) Wash Aging Function (D1)

1] Initiation of D1 Test Mode

1> D1 test mode is initiated to enable wash aging when Spin Dry button is pressed.

2] Operation of Wash Aging Test Mode

1> The washer motor runs in standard cycle with the low water level regardless of the current water level. Even when the door is open, door alert is not activated. Bubble continues to operate.

3] Other LED lamps turn off and "d1" appears on 88 Display.

3) Service Check Functions (D2)

1] Initiation of D2 Test Mode

1> D2 test mode is initiated to enable checking of the functions of machine when Spin Dry button is pressed during D1 (Wash Aging) test mode.

2] D2 test mode to inspect respective operating states in the following conditions is initiated as directed below.

Order	Inspection Items	Duration	Operations	LED Display
1	Drainage	4 sec	Drainage Motor On	88DISPLAY: "d2" Other LED: OFF
2	Spin Dry	3 sec	Drainage Motor + Spin Dry Motor On	
3	Water Supply Valve	1 sec	Hot Water Supply Valve On	
		1 sec	Cold Water Supply Valve On	
		1 sec	Softener Supply Valve On	
4	Washer Motor & Bubble	1 sec	Right Washing Motor On	
		1 sec	Bubble On	
		1 sec	Left Washing Motor On	
5	Pump Operation	1 sec	Pump On	

3] The washer turns off with power sound when the inspection procedure above is complete.

4) Full Cycle Aging Function (D3)

1] Initiation of D3 Test Mode

1> D3 test mode is initiated to enable the aging function over the present cycles when Spin Dry button is pressed during D2 (Service Check) test mode.







2] After other LED lamps turn off for 3 seconds, "d3" appears on 88 Display Panel. Then, the buzzer works and the operation suspension status of standard program is activated to select the cycles to be subject to aging mode.

3] Programs subject to aging mode and their respective durations, number of runs, water levels, and water temperatures are determined. Then, Start/Stop button shall be pressed to run the preset cycle repetitively in the aging mode.

4] Water level and temperature are not modifiable and the machine cannot deactivated with Start/Stop button during the aging mode.

5] Power button should be pressed to deactivate the aging mode.

3. PCB error displays

ERROR displayed	Contents
	<p>Drain error. Check the location of the drain hose, drain synchronous motor, and bellows.</p> <p>Open/close the door and press “Start/Pause” to run the washer again.</p>
	<p>Drain error. Check if the tap is left open, water temperature is correctly selected, the hose is properly connected, or impurities are collected in the water-supply valve.</p> <p>Or the water-level sensor error.</p> <p>Open/close the door and press “Start/Pause” to run the washer again.</p>
	<p>The laundry tangled during spin-drying or 수평량 and safety switch error.</p> <p>Adjust the levelness or correct the safety switch contact.</p> <p>Open/close the door and press “Start/Pause” to run the washer again.</p>
	<p>The door opened during washing/spinning/or timing.</p> <p>Replace the door switch and safety switch in case the error exists after the door is closed.</p> <p>Open/close the door and press “Start/Pause” to run the washer again.</p>
	<p>Load sensing error.</p> <p>Replace PCB ASS'Y in case the error is indicated for 0.5 sec after load sensing (Load sensor) operates for 7 sec and the level is always set to “High”.</p>
	<p>Water level sensing error.</p> <p>Check the water-level sensor and the connector of the water level sensor Ass'y in the back.</p>



4. Troubleshooting

Problems	Matters to Check	Troubleshooting
No power	Check the voltage	<ul style="list-style-type: none"> • Check the voltage used • Check blackout and a circuit breaker
	Check the fuse → Replace the fuse and check the operation in the test mode to see if the same error occurs.	<ul style="list-style-type: none"> • If the fuse is disconnected during water supply, replace the water-supply valve after measuring the resistance of the valve and a short is confirmed • If the fuse is disconnected during washing, replace the motor after measuring the resistance of the motor and a short is confirmed
	Check the connector and corrosion of the wiring.	<ul style="list-style-type: none"> • Replace the connector and harness
	Check the voltage of the regulator I.C. of PCB (Input: 12V, Output: 6V)	<ul style="list-style-type: none"> • Replace the PCB or parts if the error exists after checking the regulator.
No washing	After draining → the wing rotates only in the one direction or makes excessive noises when it rotates in the reverse direction.	<ul style="list-style-type: none"> • TRIAC error on the PCB. Replace the PCB.
	Check electrical noise of the motor → <ul style="list-style-type: none"> • Check the connector • Check disconnection of wires of the motor 	<ul style="list-style-type: none"> • Replace the connector and harness • Replace the motor if a motor wire is disconnected • Replace the PCB if a motor wire is normal.
	Check the capacitor terminal	<ul style="list-style-type: none"> • Correct the contact of the capacitor terminal.
	Check abrasion of the belt	<ul style="list-style-type: none"> • Replace the belt

ELECTRIC CIRCUIT

Problems	Matters to Check	Troubleshooting
No spin-drying	Check the fuse → Check the voltage at both ends of the drain synchronous motor	<ul style="list-style-type: none"> • Replace the synchronous motor • Replace the PCB if the synchronous motor is normal
	Check the abrasion of the V belt	Replace the V belt
	Check the voltage of both ends of the motor (White-red~purple)	Replace the motor if the voltage is not normal
	Check the contact of motor start condenser	Correct the contact of the condenser terminal
No water supply	Check if the tap is left open	Open the tap
	Check if impurities are collected in the water-supply valve.	Clean the filter with a brush
	Check the connection of hose and water-supply valve	<ul style="list-style-type: none"> • Connect the hose with the valve properly • Check that the hose is properly connected with the nozzle
	Check electrical noise of the water-supply valve	Replace the valve if the same error persists
	Check the contact of the connector and terminal	<ul style="list-style-type: none"> • Take measures to prevent the same error • Replace the PCB if the error persists after correcting the contact

ELECTRIC CIRCUIT

Problems	Matters to Check	Troubleshooting
Water supply not stopping	Check if water is supplied when the power is off	<ul style="list-style-type: none"> • Replace the water-supply valve
	Check if water is supplied continuously when the power button is pressed	<ul style="list-style-type: none"> • Replace TRIAC of the PCB
	Check if water is supplied continuously when the level reaches "High"  <ul style="list-style-type: none"> • Check if the level-sensing hose is bent • Check if the level-sensing hose is filled with water • Check if water is not supplied when the level is set to "Middle" 	<ul style="list-style-type: none"> • Unfold the bent hose • Air leakage in the hose • Replace the sensor
No drain	Check if the drain hose is on the floor	Place the hose on the floor.
	Check the drain synchronous motor  Check voltage at both ends of the synchronous motor	<ul style="list-style-type: none"> • Replace the synchronous motor if the voltage is not normal • Replace the PCB if the voltage is normal
	Check if impurities are collected in the drain bellows	Clean the impurities



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ABOUT THIS MANUAL

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6번지 이룸빌딩 4층

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