**Daewoo Electronics** 

S/M No. :

# Service Manual

Washer

DWD-6T1221DT



May. 2018

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## **1. WARNINGS AND PRECAUTIONS FOR SAFETY**

Please observe the following safety precautions in order to use safely and correctly the washer and to prevent accident and danger during repair.

- Be care of an electric shock. Disconnect power cord from wall outlet and wait for more than three minutes before replacing PCB parts.
   Shut off the power whenever replacing and repairing electric components.
- 2. Please check if the power plug is pressed down by the product against the wall. If the power plug was damaged, it may cause fire or electric shock.
- 3. Please make sure the outlet is properly earthed, particularly in wet or damp area.
- 4. Use standard electrical components when replacing them.
- Make sure the hook is correctly engaged.
   Remove dust and foreign materials from the housing and connecting parts.
- 6. Do not fray, damage, machine, heavily bend, pull out or twist the power cord.
- Please check the evidence of moisture intrusion in the electrical components.
   Replace the parts or mask it with insulation tapes if moisture intrusion was confirmed.
- 8. Do not let the customers repair, disassemble and reconstruct the product for themselves.

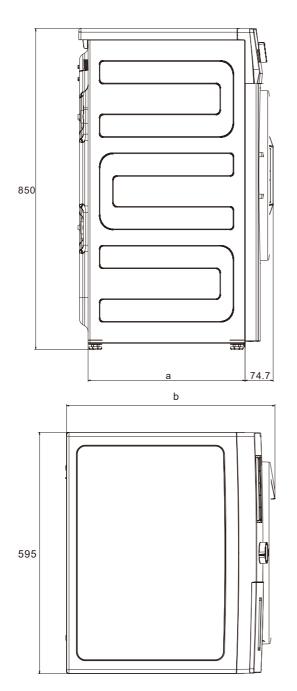
It may cause accident, electric shock, or fire.

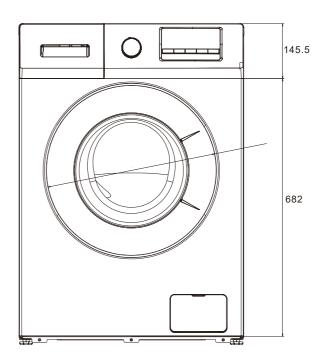
## 2. SPECIFICATION

ltem	Specification		
Model Name	TWF60-G10306A03	TWF60-G12306A03	
Washing Capacity	6.0kg	6.0kg	
Max. Spin Speed	1000rpm	1200rpm	
Volume Of Inner Tub	42L	42L	
External Dimension (Width * Depth * Height)	595mm * 470mm *850mm	595mm * 470mm *850mm	
Inner Diameter	505mm	505mm	
Rated Voltage	220~240V (50Hz)	220~240V (50Hz)	
Weight	50kg	53kg	
Motor Type	Universal Motor	Universal Motor	

## **3. EXTERNAL VIEWS**

3-1. External Size



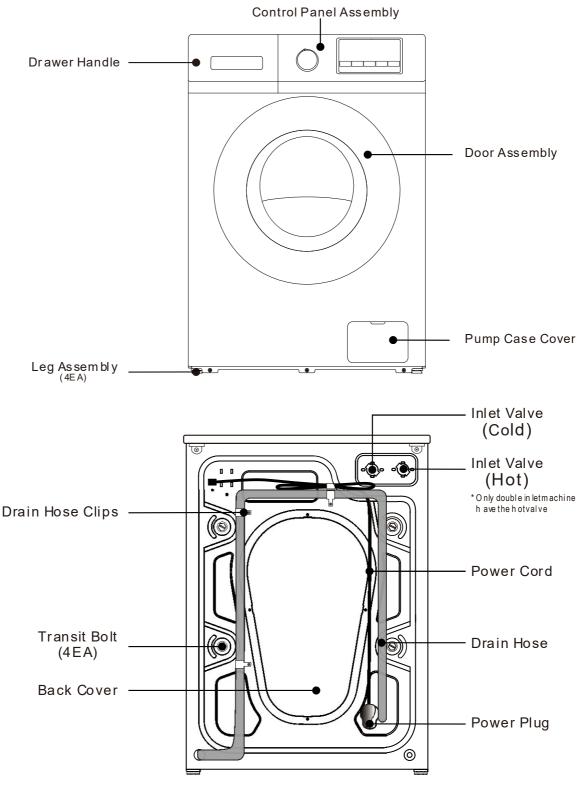


6kg&7kg&8.5kg size as below :

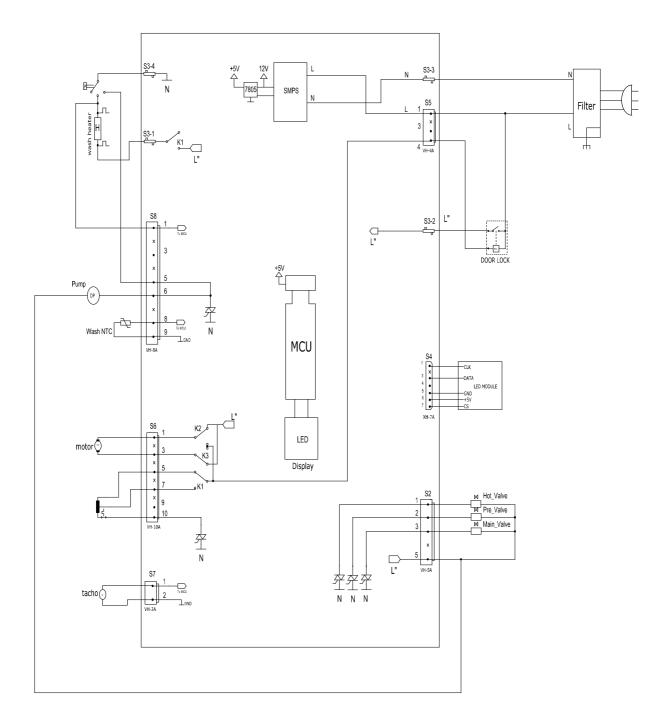
	6kg
а	360mm
b	515mm

## **3. EXTERNAL VIEWS**

#### 3-2. Name of Each Parts



## 4. WIRING DIAGRAM



## **5. OPERATION AND FUNCTIONS**

Ensure your machine is installed properly before use.

Before washing clothes for the first time, you must run a complete cycle without clothes. To do this: 1.Connect power source and water.

2.Put a little detergent(about 10g) into the drawer and close it.

3.Press the On/Off button.

4.Turn the knob to the "Cotton" .

5.Press the Start/Pause button.

This will remove any water from the manufacturer's test run remaining in the machine.

Put detergent

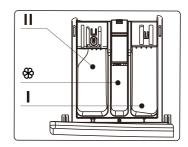
1.Pull out the detergent drawer.

2.Add detergent for prewash into compartment I

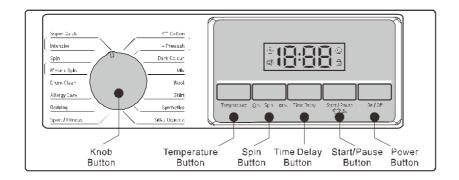
3.Add detergent for main wash into compartment II

4.Add fabric softener into compartment.

5.Please choose suitable type of detergent for the various washing temperature to get the best washing effect with less water and energy consumption.



#### View of control panel



#### Function

Temperature Button: Use this button to select water temperature. Available selections(from cold to max °C) vary for each cycle. The targeted setting will blink on the screen during the selection process.

Spin Button: Use the button to select a spin speed. Available selections (from 0 to max rpm)vary for each cycle. The targeted setting will blink on the screen during the selection process.

Time Delay Button: Press the button repeatedly to cycle through the available delayed start options (from 3 to 24 hours in one hour increments).

Start/Pause Button: Press the button once to start a cycle.Press the button a second time will pause the operating cycle. During a pause, setting and options can be modified and selected again if it is permit.Pressing the button again will resume the active cycle.

Power Button: Press once to turn the washing machine on, press again to turn the washing machine off. If the washing machine power is left on for longer than 10 minutes without any buttons being touched, the power automatically turns off.

#### **5. OPERATION AND FUNCTIONS**

Indicators

() :When the indicator appears, it means the "Time Delay" function has been selected.

:When the indicator appears, it means the "Sound Off" function has been selected.

(U) :When the indicator appears, it means the "Child Lock" function has been selected.

:The indicator will keep on when the door is locked normally, otherwise, it can not appear.

#### Programe

Spuer Quick: This procedure is suitable for washing few and not very dirty clothes quickly.

Intensive:You can select this procedure wash the tough clothes,that need much more strength.

Spin: This cycle is use to extract water from clothes.

Rinse+Spin:This cycle is use to clean remaining detergent in clothes and extract water from clothes.

Drum Clean: This cycle is specially set in this machine to clean the drum and tube. It applys 60/90°C high temperature sterilization to make the drum and tube more green. When proper amount of chlorine bleaching agent is put in, the barrel cleaning effect will be better. When you run this program, we suggest not to put any clothes, you can use this procedure regularly according to the need.

Allergy Care: The procedure can quite make clothes rinse to more clean, avoid the laundry detergent for skin allergy.

Bedding: You can select this procedure to wash clothes that is heavy. It is recommended to wash jeans, bedding etc.

Sport/Fitness:The procedure is quite suitable for sports clothes.

Cotton: You can select this procedure to wash the daily washable clothes. It is recommended to wash the hard-wearing fabrics, heat-resistant fabrics made of cotton or linen.

Prewash: The Prewash function can get an extra wash before main wash. When you choose this cycle ,detergent for prewash is recommended to be put into the detergent drawer ("compartment I", as shown in page 8).

Dark Colour: You can select this procedure to wash the dark-coloured fabrics made of cotton and dark easy-care fabrics.

Mix:You can select this procedure to wash clothes that are different kinds ,except for colors. Dark clothes should not be washed with clothes that are light especially.

Wool: You can select this procedure to wash the wool textiles labeled with "Machine Wash". Please select the proper washing temperature according to the label on the articles to be washed.

### **5. OPERATION AND FUNCTIONS**

Synthetics: You can select this procedure to wash the quite delicate clothes. It is recommended to wash fabrics made of silk, satin, synthetic fibers or blend.

Shirt: You can select this procedure to wash shirts made of cotton, linen, synthetic fibers or blended fabrics.

Silk/Delicate: This procedure is suitable for delicate garments made of synthetic fibres, mixed fibres, rayon and easy care cottons. As suitable for machine-washable silks.

#### Features

1. Power-off memory: In case of power failure during the cycle, the settings will be saved, and operation will resume when the power is restored.

Child lock: Press the "Temperature" and "Spin" button simultaneously for 3 seconds can activate or cancel the "Child lock" feature to avoid mis-operations. When the feature is activated, all buttons cannot be set until the operation is over or it is canceled.

Sound off: Press the "Spin" and "Time Delay" button simultaneously for 3 seconds can activate or cancel the "Sound off" feature. When the feature is activated, the sound of knob operation and all the button action will disappear.

Unbalace protection: When the machine is ready to spin, The washer may take a few time to balance clothes due to great unbalance. If clothes is still unbalance in the drum after that, the spinning speed can be slow down to avoid great vibration. If clothes in drum is too less, the machine may not to spin due to the unbalance protection, then you should add more clothes in the machine to make it to spin.

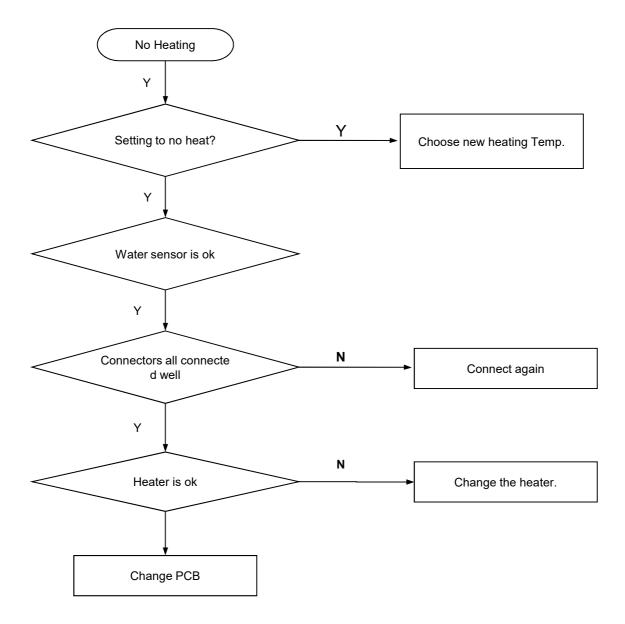
Reload: If you want to add clothes in the washer during the procedure, press the "Start/Pause" button for 3s, when you sound two beeps, it means the reload feature has been activated. Please wait for the indicator ' ' disappears then open the door. Press the "Start/Pause" button to resume the procedure after reload.

Parameter		Ма	ax Load	(kg)	Temp. Range	Speed Range
Procedure	5kg	6kg	7kg	8,5kg	(℃;= cold )	(r/min;0=no spin)
Super Quick	1,5	1,5	2	2,5	~30	0~1000
Intensive	5	6	7	8,5	~60	0~Max
Spin	5	6	7	8,5		0~Max
Rinse+Spin	5	6	7	8,5		0~Max
Drum Clean	0	0	0	0	60/Max	800
Allergy Care	3	3	3,5	4	~60	0~1000/1200
Bedding	4	4	5	6	~60	0~1000/1200
Sport/Fitness	2	2	2,5	3	~40	0~800
Cotton	5	6	7	8,5	~Max	0~Max
+Prewash	4	4	4,5	5	~Max	0~Max
Dark Colour	3	3	3,5	4	~40	0~1000
Mix	3	3	3,5	4	~40	0~1000
Wool	1,5	1,5	2	2,5	~40	0~600
Shirt	2	2	2,5	3	~60	0~1000
Synthetics	3	3	3,5	4	~60	0~800
Silk/Delicate	3	3	3,5	4	~40	0~800

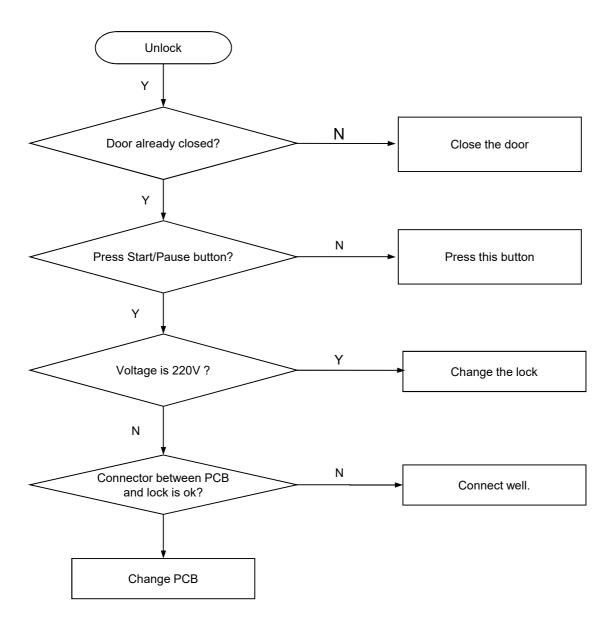
#### Table of Washing Procedures

## 6. TROUBLE SHOOTING

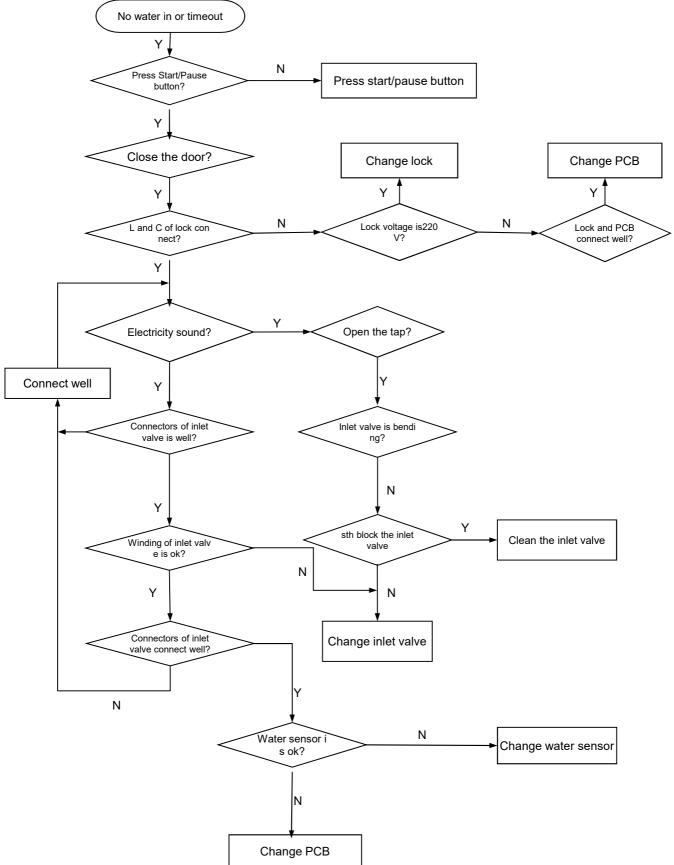
## ① No heating



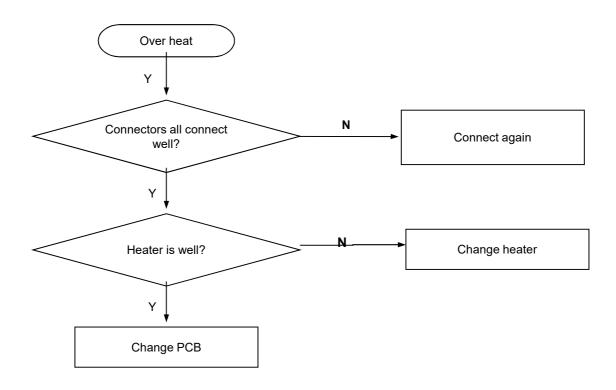
## 2 Unlocking



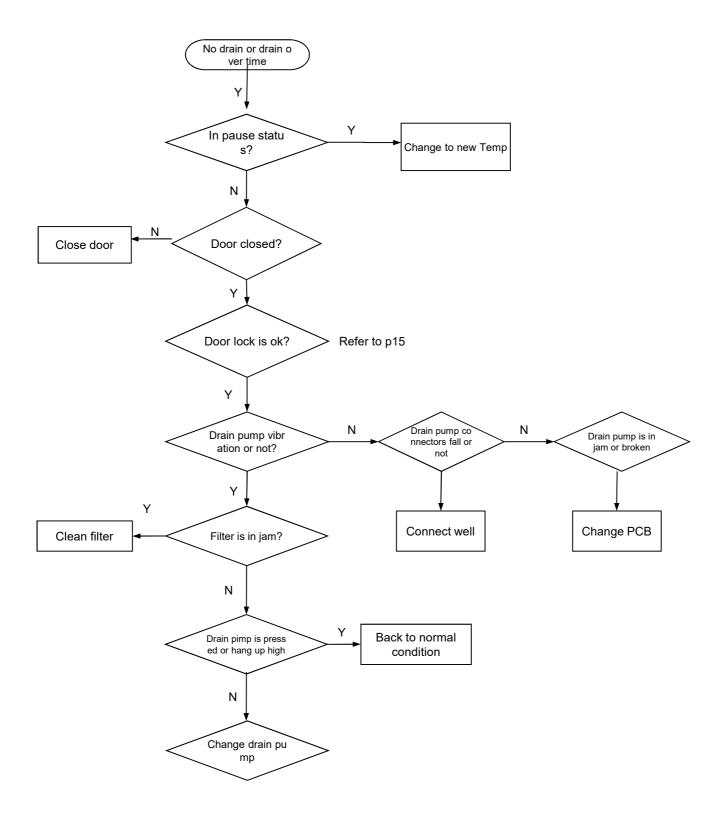
## ③ No inlet water or a timeout of feeding water



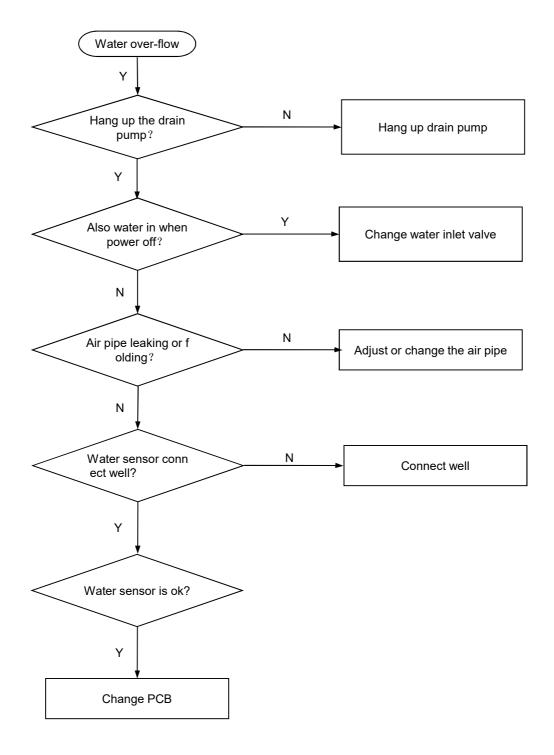
## (4) The heating beyond a setting temperature



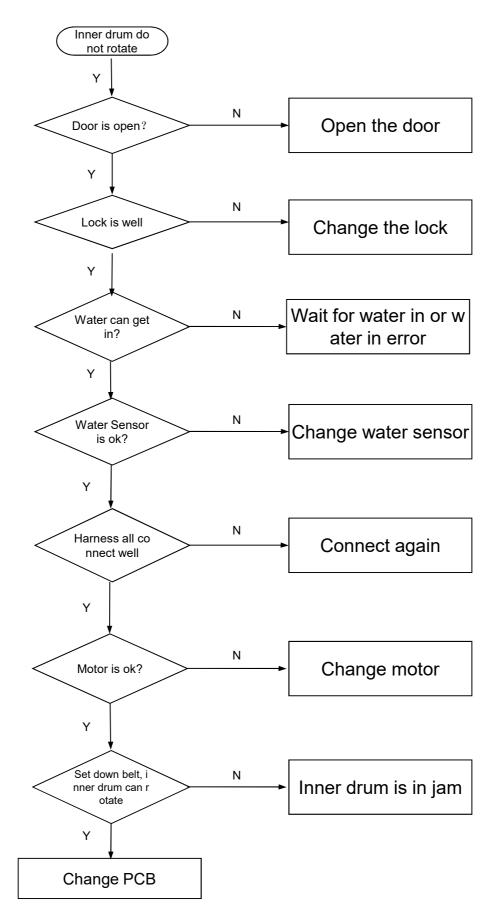
## **(5)** No drainage or a timeout of drainage



## **(6)** The inlet water is too much or the inlet water cannot stop

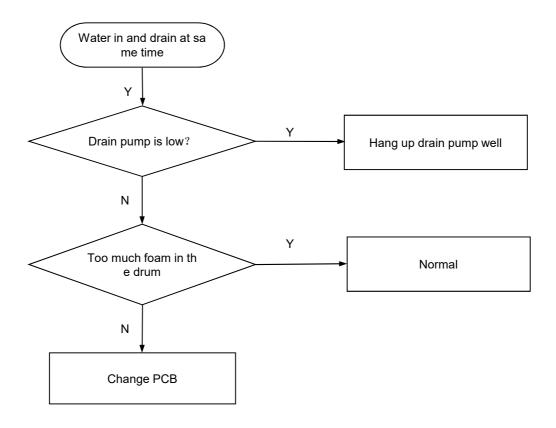


## ⑦ Inner tub cannot rotate



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## (8) The inlet water and the drainage happen at the same time



Operation steps	Diagram	Main tools
1.Removal of top cover and rear cover plate ①Unscrew 2 screws on the top cover plate and 6 screws on the rear cover plate with cross screwdriver (fig. 1&fig. 2);	<image/>	
②Push the top cover plate along the direction in the fig., and remove the top cover plate (fig. 3)	<image/> <image/>	Cross screwdriver
	Fig. 3	

## 2. Control panel assembly

①According to the method in the fig., press the stop key in the drawer for drawing out the drawer (fig. 1);

②Remove 2 screws in the fig. with cross screwdriver (fig. 2);

③Remove 3 selftapping screws on the top of the fixed control panel assembly (fig. 3);

④Pull up the control panel, and cut off the wiring harness with diagonal plier (fig. 4);

⑤Pull out all wire terminals of the PCB (fig. 5);

<sup>(6)</sup>Take out the PCB (fig. 6).



Fig. 1



Fig. 2

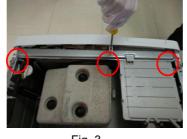


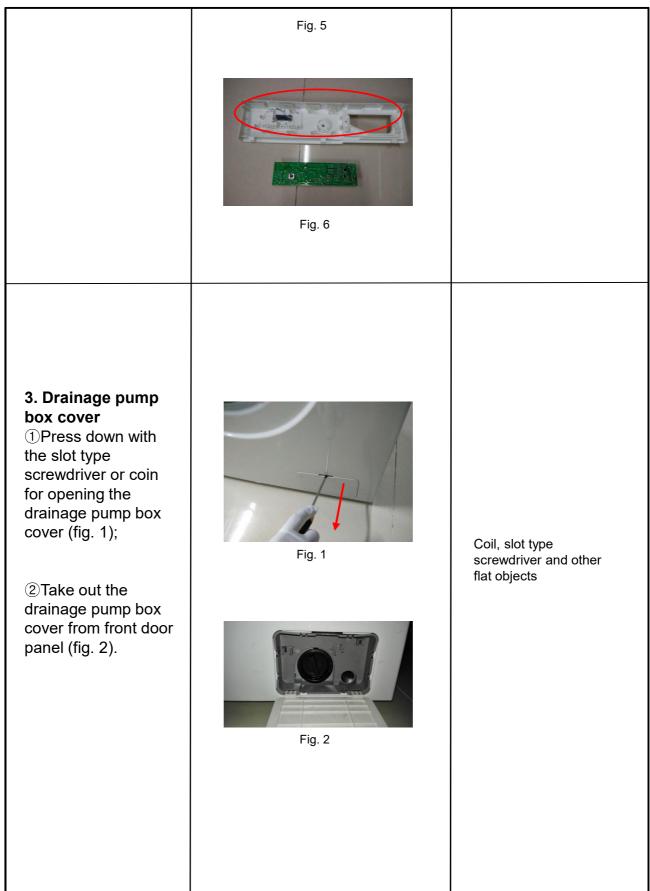
Fig. 3

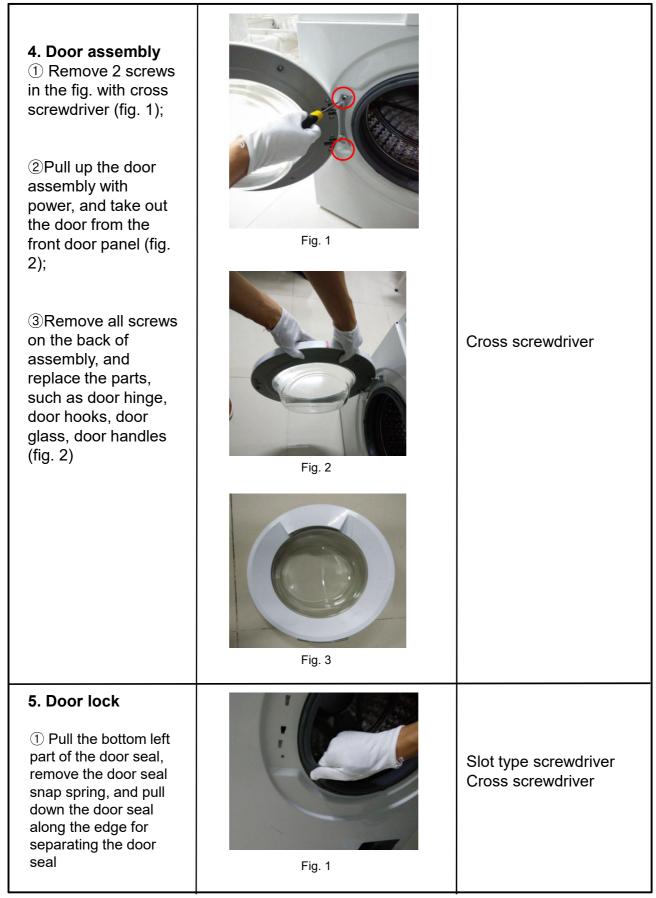


Fig. 4

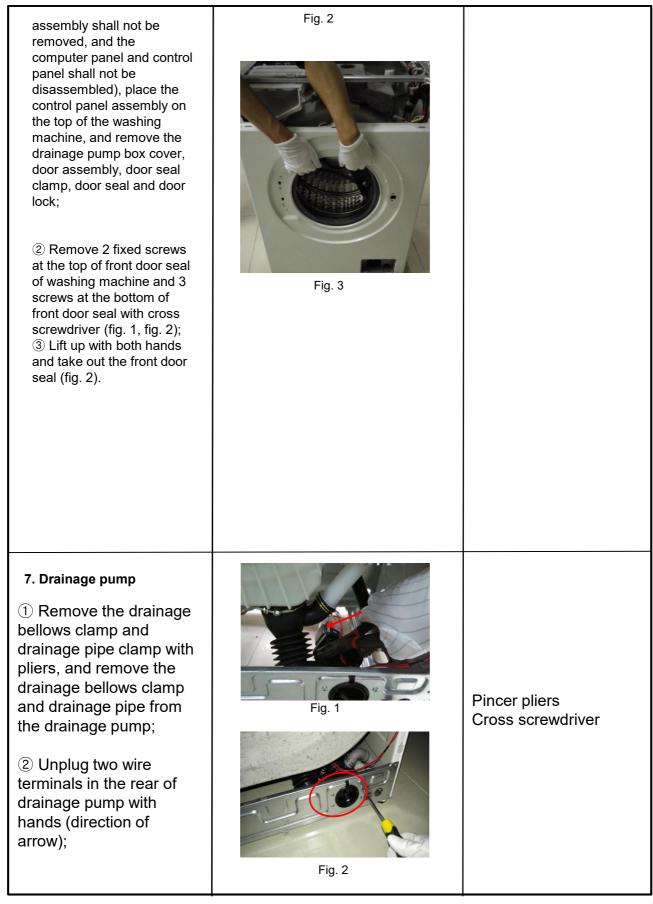


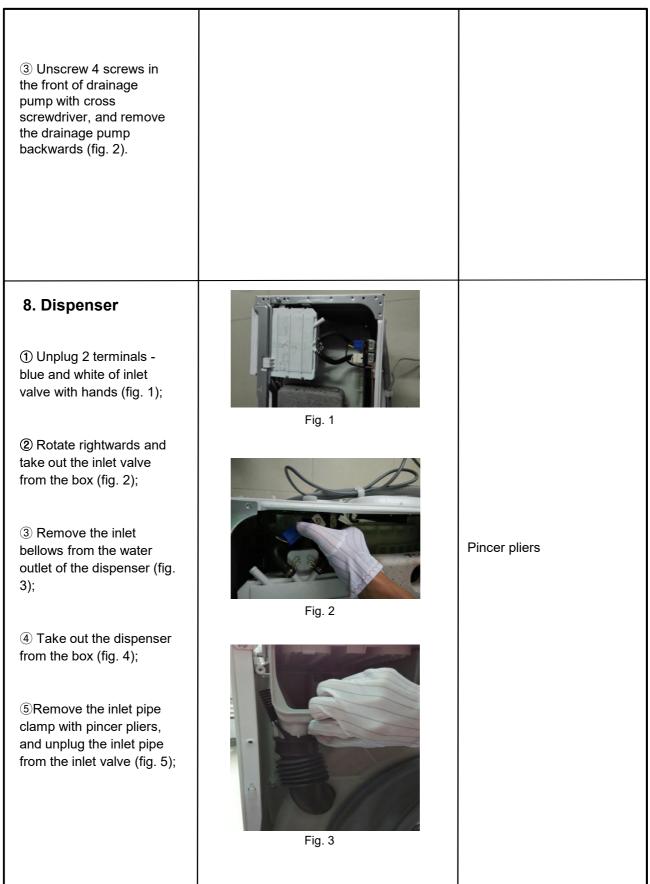
Cross screwdriver Diagonal plier

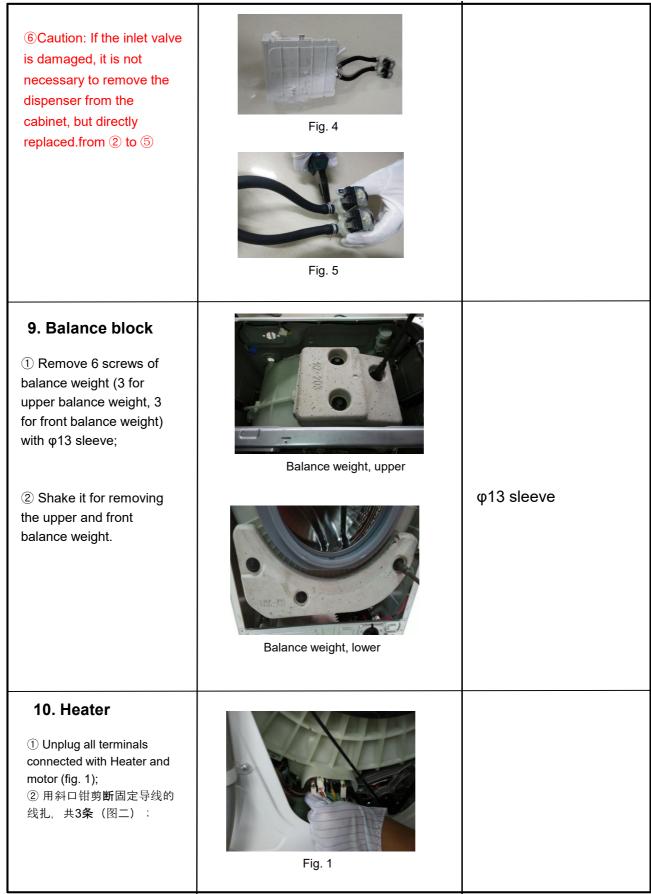


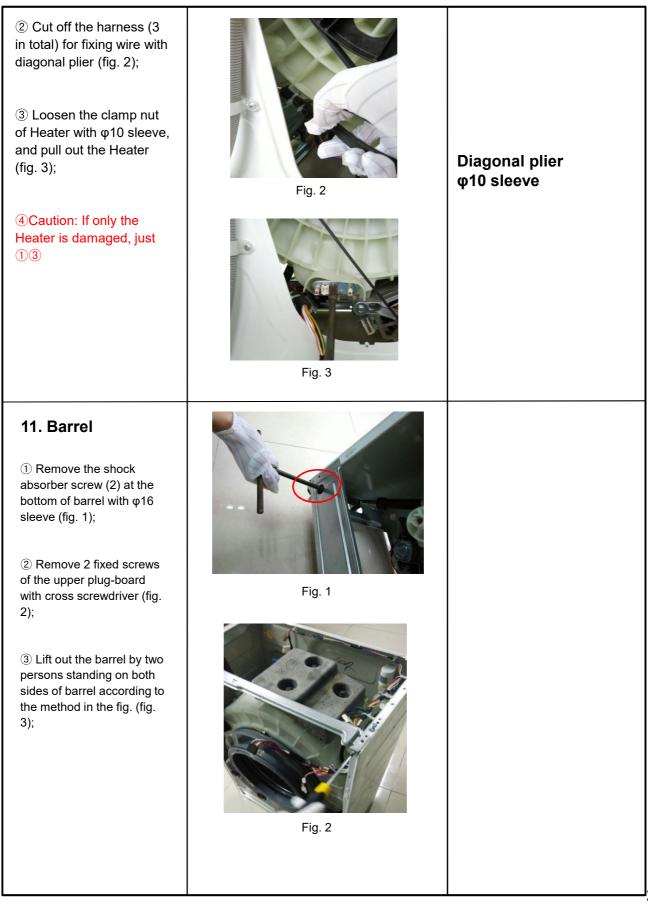


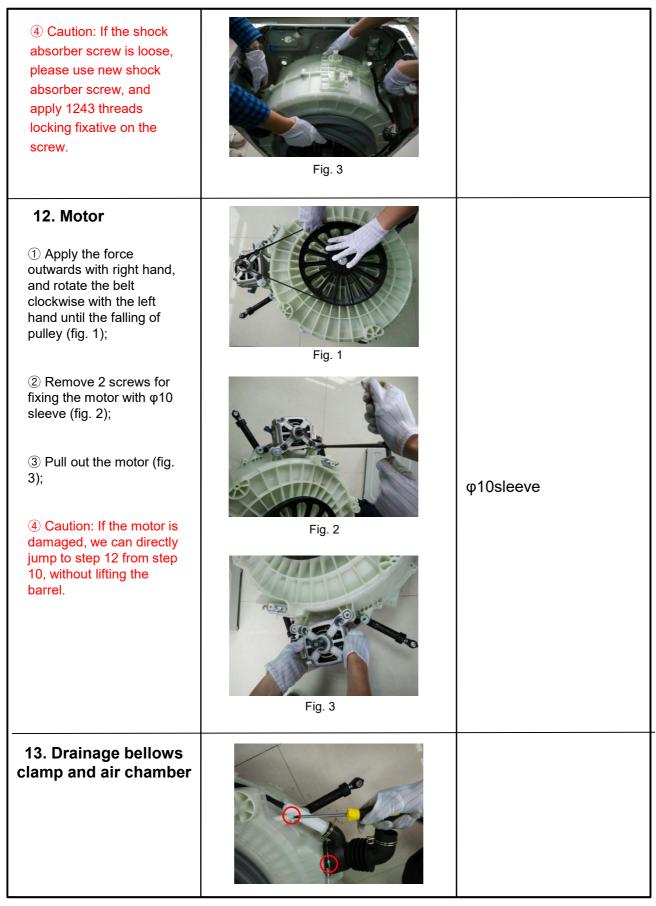
along the edge for separating the door seal from the front door panel (fig. 1); 2 Remove 2 screws of fixed door lock with cross screwdriver (fig. 2); ③ Press the door lock inwards with hand, pull out it from Fig. 2 the inner side of the door seal, and unplug the wire terminalconnected with door lock (fig. 3). Fig. 3 6. Front door seal ① With the abovementioned method, remove the top cover plate assembly and control panel assembly (if the control panel assembly is not replaced, the wire terminal on the control panel assembly is Cross screwdriver Fig. 1 not replaced, the wire terminal on the control panel

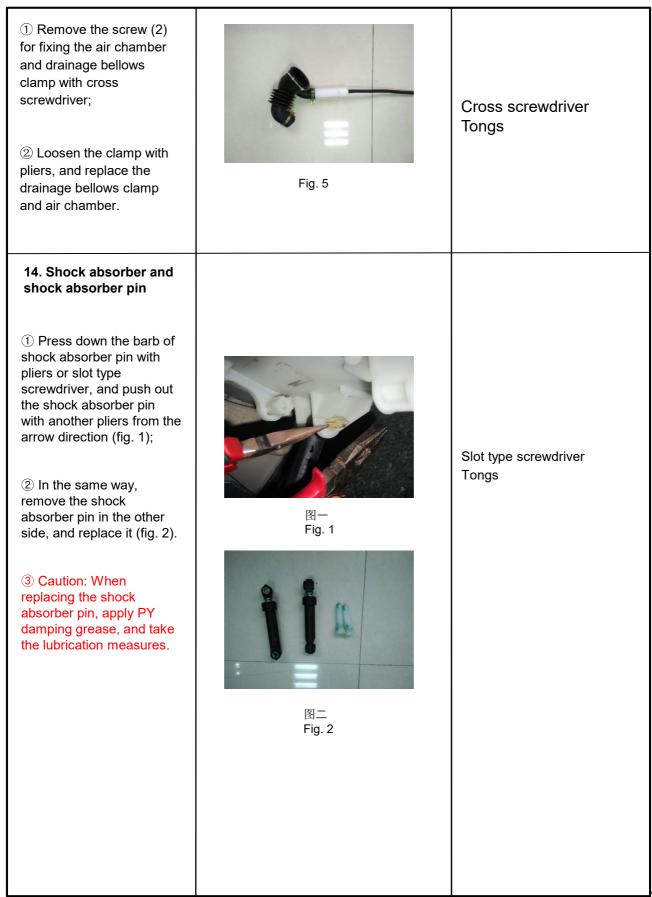




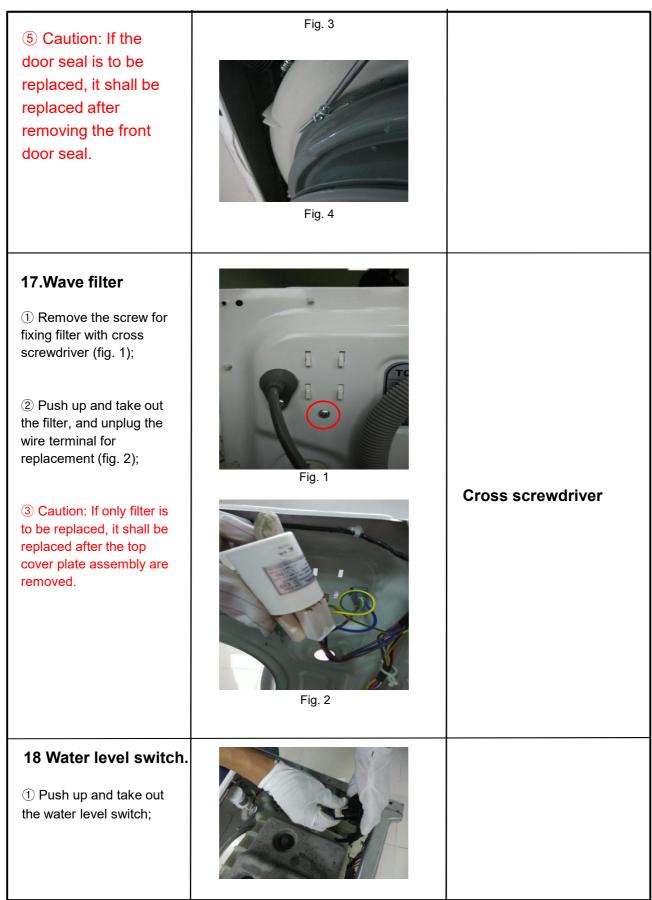








<ul> <li><b>15. Pulley</b></li> <li>(1) Remove 1 screw for fixing the belt pulley with φ13 sleeve, as shown in the fig.;</li> <li>(2) Caution: If the belt pulley is loose or damaged, it can be directly replaced after removing the rear cover plate. But, replace the new belt pulley, and apply 1243 threads locking fixative on the new screw.</li> </ul>	<image/> <image/>	φ13 sleeve
<ul> <li>16. Door seal and inner barrel</li> <li>1 Remove 12 screws for fixing tub outer in front and rear with φ10 sleeve (fig. 1);</li> <li>2 Lift up the front outer barrel, remove the inner barrel from the rear outer barrel, and replace it (fig. 2);</li> <li>3 Raise the sealing strip with slot type screwdriver (fig. 3);</li> <li>4 Loosen the rear snap spring bolt of the door seal, and pull outward for removing the door seal from outer cylinder (fig. 4);</li> </ul>	<image/> <caption><caption><image/><image/></caption></caption>	φ10 sleeve Slot type screwdriver Cross screwdriver



 ② Unplug the air pressure pipe (black rubber hose), and unplug the wire terminal carefully for replacement;

③ Caution: If only water level switch is to be replaced, it shall be replaced after removing the top cover plate.



Fig. 1



Fig. 2

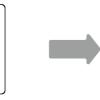
None

## 8. INSTALLATION OF PRODUCT

#### Remove transit bolts

Before using this washing machine, transit bolts must be removed from the backside of this machine. Please take the following steps to remove the bolts:

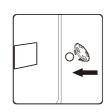




Loosen the four transit bolts with a spanner

Take each bolt head and pull it through the wide part of the hole. Repeat for each bolt.

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Fill the holes with the supplied plastic covers

Keep the transit bolts properly for futher use.

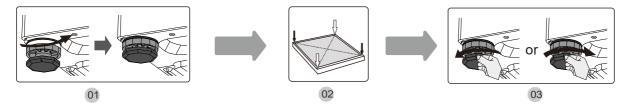
Level the washing machine

Install or place the washing machine under the environmental temperature of not less than 0°C but not outdoors, for it may damage the programming controller.

Check whether the foot is under factory state; if not, restore the foot to factory state: ensure the rubber gasket close to the bottom of the drum body and the lock nut close to the rubber gasket.

Hold the diagonal angles of the top cover of the washing machine with two hands, and then press straightly downward and shake, to check if the supporting feet are close to the ground.

Level the washing machine only by left- or right- rotating it to proper position, until the machine stop shaking and stay close to the ground.



01 Check whether the supporting feet are under factory state; if not, restore it to factory state.

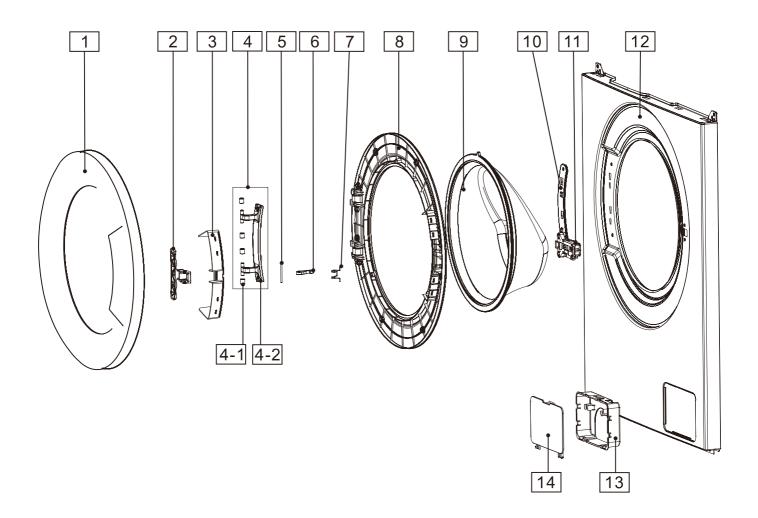
02 Check whether the washing machine shakes.

03 Left- or right- rotate the machine to proper position, until the machine stop shaking and stay close to the ground.

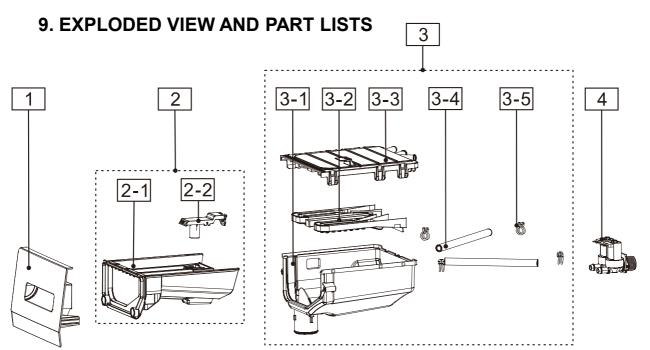
1. The machine must be perfectly leveled and stabilized when the four supporting feet are close to the ground. Lower the feet as much as possible on the basis that the machine is leveled.

2.Improper leveling adjustment may cause loud noise, machine vibrating, machine displacement and other abnormal phenomena.

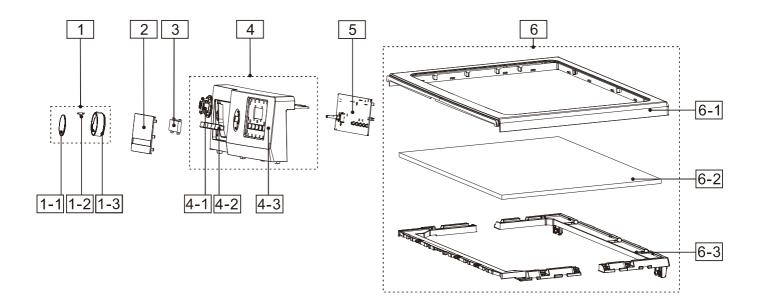
3.Air-vent is designed on the bottom of the machine (prevent blockage). Install the washing machine on solid, smooth and skid-proof ground. Do not place the washing machine on soft blanket or wooden floor, or various desktops and stands, in case of unnecessary injury.



	6KG 1000, 1200RPM MODEL						
	No. Part -Cord Part I		Part Name	Qty	SVC		
1		3102310054	Outer Frame Door	1			
2		3102310052	Door handle	1			
3		3102310053	Handle cover	1			
4		3101410036	Door hinge	1			
4	4-1	/	shaft sleeve	4			
4	4-2	1	Door hinge	1			
5		3101410015	pin	1			
6		3101810007	Door hook	1			
7		3105040014	SPRING, LOCKER	1			
8		3102410044	Inner frame door	1			
9		3108010001	Glass	1			
10		3101010017	Door hinge fix slice	1			
11		3104050001	Door Lock	1			
12		3101410022Z	Cabinet Cover	1			
13		3102410043	Drain pump box	1			
14		3102310049	Drain pump cover	1			

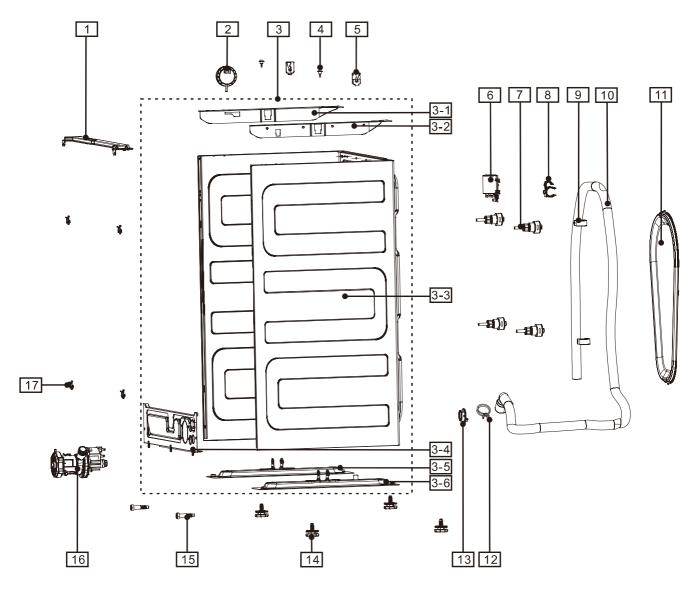


	6kg 1000, 1200rpm						
No.		Part -Cord	Part Name	Qty	SVC		
1		3102310100	Drawer handle	1			
2		3102410141	Drawer handle assembly	1			
2	2-1	1	drawer	1			
2	2-2	/	Softener cover	1			
3		3102410106	dispenser assembly	1			
3	3-1	/	dispenser	1			
3	3-2	/	Bottom dispenser	1			
3	3-3	/	Upper dispenser	1			
3	3-4	/	Inlet pipe	2			
3	3-5	/	Inlet pipe pin	4			
4		3104130003	Inlet valve	1			

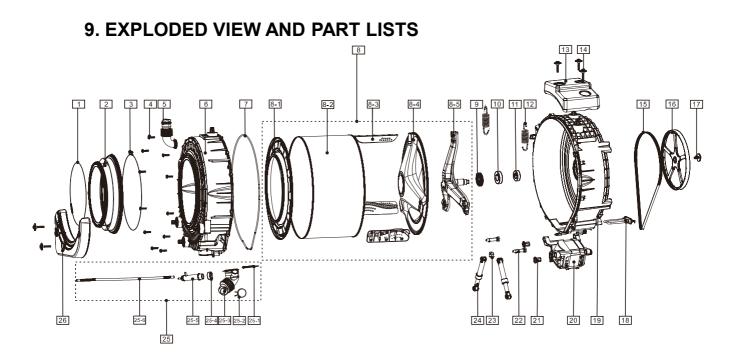


	6kg 1000rpm							
	No.	Part -Cord	Part Name	Qty	SVC			
1		3102410113	knob	1				
1	1-1	/	Knob cover	1				
1	1-2	/	Knob indicator	1				
1	1-3	1	knob	1				
2		3102750041	window	1				
3		3104010024	LED Display	1				
4		3102710025AH	Control Panel Assembly	1				
4	4-1	/	Knob base	1				
4	4-2	/	button	5				
4	4-3	/	Control panel	1				
5		3104010179	РСВ	1				
6		3102720008	Top Cover Assembly	1				
6	6-1	/	Top frame	1				
6	6-2	/	Top cover	1				
6	6-3	/	Bottom frame	1				

	6kg 1200rpm							
	No.	Part -Cord	Part Name	Qty	SVC			
1		3102410113	Knob assembly	1				
1	1-1	/	Knob cover	1				
1	1-2	/	Knob indicator	1				
1	1-3	1	knob	1				
2		3102750041	window	1				
3		3104010024	LED Display	1				
4		3102710025AH	Control Panel Assembly	1				
4	4-1	/	Knob base	1				
4	4-2	1	button	5				
4	4-3	/	Control panel	1				
5		3104010180	PCB	1				
6		3102720008	Top Cover Assembly	1				
6	6-1	/	Top frame	1				
6	6-2	/	Top cover	1				
6	6-3	/	Bottom frame	1				



6kg 1000, 1200rpm						
No.		Part -Cord	Part Name	Qty	SVC	
1		3101010029	Top plate	1		
2		3104050003	Water sensor	1		
3		3109020019	Cabinet Assembly	1		
3	3-1	/	Top left reinforcer	1		
3	3-2	/	Top right reinforcer	1		
3	3-3	/	cabinet	1		
3	3-4	/	Bottom plate	1		
3	3-5	1	Bottom left reinforcer	1		
3	3-6	1	Bottom right reinforcer	1		
4		3105010012	screw	2		
5		3102750001	Spring Holder	2		
6		3104180004	filter	1		
7		3105010020	Transbolt A	3		
7		3105010021	Transbolt B	1		
8		3102410028	Power Cord Clamp	1		
9		3102410002	Drain Hose Clamp	2		
10		3102670064	Drain pump	1		
11		3101610029ZAA	Back cover	1		
12		3105060014	Drain pipe clamp	1		
13		3102410001	Drain pipe holder	1		
14		3108180003	foot	4		
15		3105010016AA	screw	2		
16		3104120015	Drain pump	1		
17		3102410029	Cabinet Cover Holder	4		



	6KG 1000RPM						
No.		Part -Cord	Part Name	Qty	SVC		
1		3105040003	Front Clamp Assembly	1			
2		3102610001	gasket	1			
3		3105040005	Back Clamp Assembly	1			
4		3105010004	screw	12			
5		3102670003	Inlet Bellows	1			
6		3102410006AA	Front outer drum	1			
7		3108110001	Outer drum seal	1			
8		3109070004	Inner drum	1			
8	8-1	/	Inner Drum Front Cover	1			
8	8-2	/	Inner drum	1			
8	8-3	1	lifter	3			
8	8-4	/	Inner Drum back Cover	1			

6KG 1000RPM						
No.		Part -Cord	Part Name	Qty	SVC	
8	8-5	/	Spider	1		
9		3105050009	Oil seal	1		
10		3105050002	bearing	1		
11		3105050007AA	bearing	1		
12		3105040013	spring	2		
13		3103150001	Top balance weight	1		
14		3105010017	screw	6		
15		3102660006	belt	1		
16		3101410025	bulley	1		
17		3105010036	screw	1		
18		3102670002	heater	1		
19		3102410033AA	Back outer drum	1		
20		3104120007AA	motor	1		
21		3102660002	Motor damper	2		
22		3102750003	Vibration Damper pin	2		
23		3101010008	Heater holder	1		
24		3103140001	Vibration Damper	2		
25		3102670038	Drain pipe bellow	1		
25	25-1	/	Drain pipe bellow clamp	1		
25	25-2	/	Drain pump clamp	1		
25	25-3	1	drain bellow	1		
25	25-4	1	Air room clamp	1		
25	25-5	/	Air room	1		
25	25-6	1	Pressure pipe	1		
26		3103150003	Front balance weight	1		

6KG 1200RPM							
No.		Part -Cord	Part Name	Q'ty	SVC		
1		3105040003	Front Clamp Assembly	1			
2		3102610001	gasket	1			
3		3105040005	Back Clamp Assembly	1			
4		3105010004	screw	12			
5		3102670003	Inlet Bellows	1			
6		3102410006	Front outer drum	1			
7		3108110001	Outer drum seal	1			
8		3109070001	Inner drum	1			
8	8-1	1	Inner Drum Front Cover	1			
8	8-2	/	Inner drum	1			
8	8-3	1	lifter	3			
8	8-4	1	Inner Drum back Cover	1			
8	8-5	1	spider	1			
9		3105050003	Oil seal	1			
10		3105050001	bearing	1			
11		3105050002	bearing	1			
12		3105040004	spring	2			
13		3103150001	Top balance weight	1			
14		3105010017	screw	6			
15		3102660001	belt	1			
16		3101410026	pulley	1			

6KG 1200RPM							
No.		Part -Cord	Part Name	Q'ty	SVC		
17		3105010036	screw	1			
18		3102670002	heater	1			
19		3102410008Z	Outer drum	1			
20		3104120002AA	motor	1			
21		3102660002	Motor damper	2			
22		3102750003	Damper Pin	2			
23		3101010008	Heater holder	1			
24		3103140001	damper	2			
25		3102670038	Drain pipe bellow	1			
25	25-1	/	Drain pipe bellow clamp	1			
25	25-2	/	Drain pump clamp	1			
25	25-3	/	Drain pipe bellow	1			
25	25-4	/	Air room clamp	1			
25	25-5	/	Qir room	1			
25	25-6	/	Air pressure pipe	1			
26		3103150002	Front balance weight	1			

# DAEWOO

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