Skyworth Front-loading WM working fundamental and troubleshooting——

440-18 serials

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1 Product introduction

1-1 Functions and specifications

Model	F60118UU
Color	White/Silver
Product picture	
Touch-button control	√
LED display	√
Automatic program	√
Smart memory	√
Tub-clean program	√
Variable temp wash	√
Adjustable spinning speed	√
Stainless steel tub	√
Water draining	√
Up drain	√
Child lock	√
Power-off automatically	√
Rated voltage	220-240V~50Hz
Rated washing power(W)	250
Rated spin power(W)	400
Rated heating power(W)	1500
Washing temp	cold/20/40/60/90

Water consumption	48
Power consumption	0.78
Energy Efficiency Class	A++
Washing ratio	1.03

1-2 Features

（1）Various functions and easy operations for use

（2）Various programe to use expediently

（3）Washing (heating wash) and spinning are operated automatically.

（4）High accuracy of cloth measurement and eccentric force check to enhance wash ratio.

（5）Auto door-lock, Universal motor(lighter vibration, lower noise)

（6）Various automatic program: Cotton, Mix,Synthetic, Baby Care,Quick15′, Rinse+Spin, Spin, Duvet, Wool,Eco,Underwear, Sports,Eco, There are also different Tub Clean, Pre delay,rinse times, temp and spin speeds for choose.

1-3 Speficications

Items	F60118UU
Product size	W595mm×D440mm×H850mm
Packing size（W×D×H）	657×490×885mm
tub size（mm）	Φ484*263.5
Net weight	52kg
Washing way	Front-loading
Spin way	Centrifugal
Vibration way	Friction damper+ hanging spring
water level check way	Frequency switch
Water level	Program shifted automatically
Dry way	NONE
Washing, spin way	Universal Motor
	Universal Motor
Motor quantity	1

Tub spin speed	washing	50rpm
	spin	400/600/800/1000rpm
Rated washing capacity		6.0kg
Rated spin capacity		6.0kg
Longest washing time and rinse times		163min、3 times
Heating wash temp		20/40/60/90℃
Voice	Washing	60dB
	Spin	74dB
Water pressrure		0.03～1MPa（0.3～1.0kgf/cm²）
Parts: Manual. In-let components, Wrench		

1-4 Main parts specification

Parts name	specification	Parts name	specification
body	Material：PCM	outer drum	Material：PP+glass fiber 30%
back cover	SGCC，T0.4	Bottom feet	Four adjustable feet
Door panel	Material：PCM，w：592mm h：693mm	Buzzer	Electronic Buzzer
Upper cover	Material: ：ABS+wood board	temp sensor	Resistance R(70℃)＝8.514KΩ 5% R(25℃)＝49KΩ﹢8.7，-8.3% B Constant 3970K 2% （0-100℃）
Inner tub	Materia：Stainless steel		
	inner diameter：483.8mm		
Power Switch	Mechanical	Optional switch	Knob
Start/stop switch	Mechanical	Door Lock	PTC Door switch
water level sensor	Frequency switch	inlet valve	Water pressure range: 0.02~1.0Mpa
Drain pipe	Bellows		Max flow： A、Main：14L/min B、Prewash：14L/min
Drain pump	Flat		
Water inlet pipe	PVC pipe 1.5m		
Washing, spin motor	Uni Motor/CIM Motor：220-240V /50/60Hz	Washing heating tube	1500W

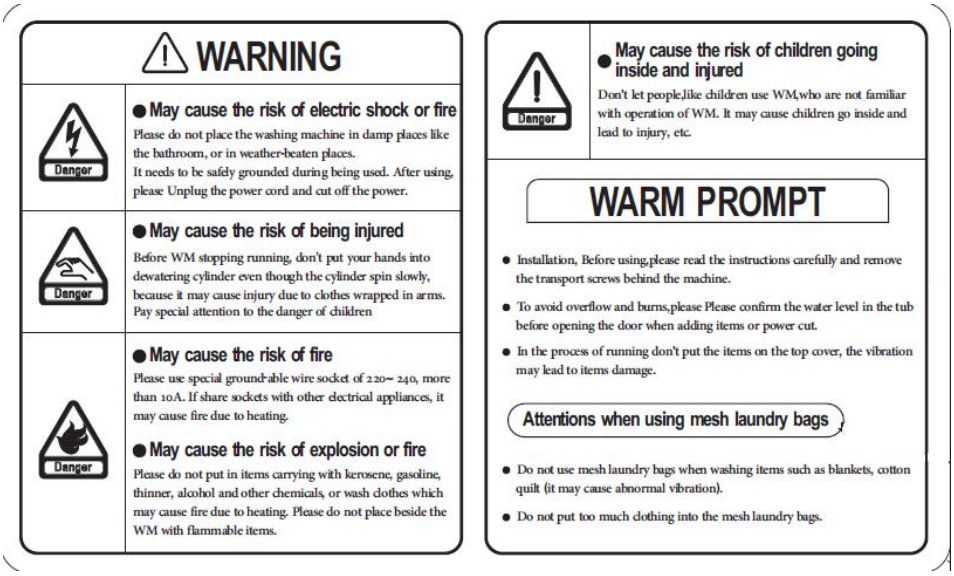
1-5 Notice before washing

（1） Before washing, please adjust and tight each screw to keep the machine flat and stable for the risk of great vibration when spinning.

（2） Please use the low bubble detergent and refer to its manufacture suggestions specially to wash the cloths。

（3） Please check and confirm the suitable temp from clothes label before heating.

（4） Caution：

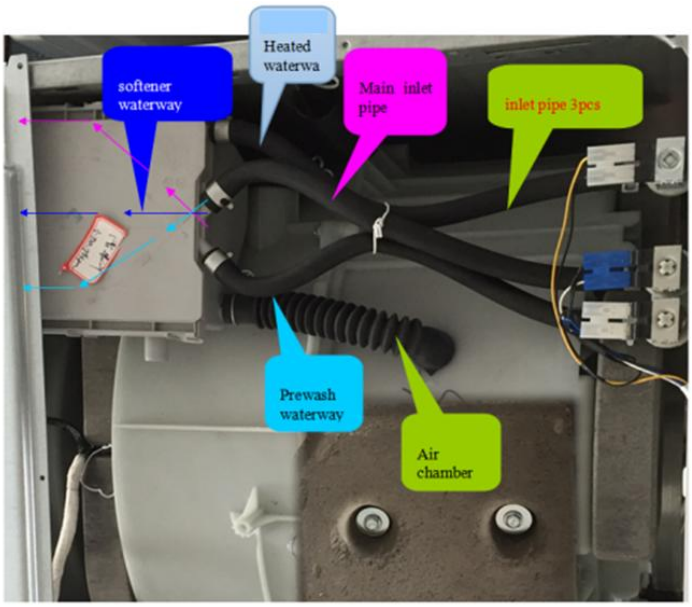


2 Structure and functions

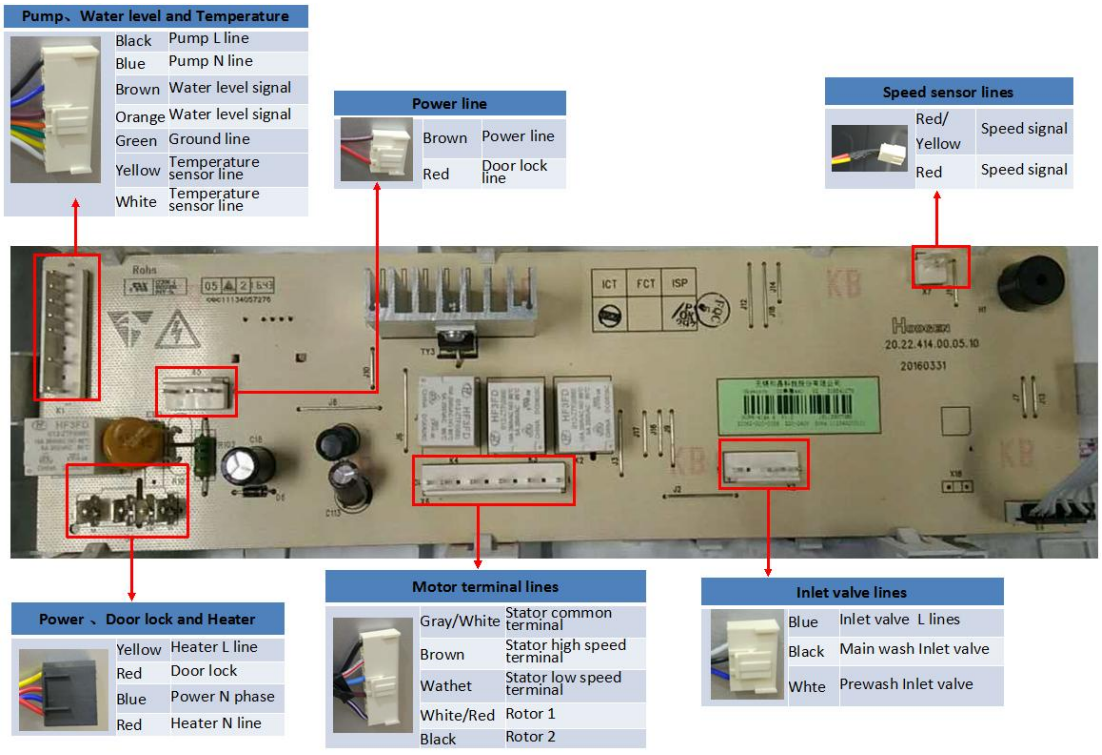
2-1 System of waterway

Water inlet: inlet pipe→inlet valve→inlet hose→detergent box→detergent box bellows →outer tub

Dewatering: inner tub→outer tub→pump→bellows→drain pipe

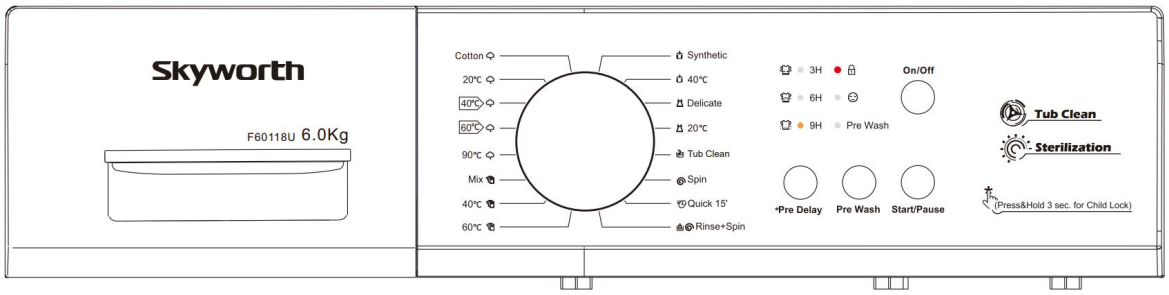


2-2 Main control panel connector and function



2-3 Control panel and its settings

2-3-1 control panel



F60118UU Control Panel(Image show here is indicative only,Actice product you receive may differ)

2-3-2 Setting and display

Power: Press it to the original program; Procedure finished, power off automatically

Start/Pause: Press Start button to start operation; Press Pause button to stop temporarily

Knob: Rotate it to select additional functions as following:

Model：F60118UU

program	temperature (℃)	rinse (times)	time (m)	revolution (rpm)	maximum load	Cloth type
Cotton	Cold	2	88	800	rated	general cotton fabrics
20℃	20	2	93	800		
40℃	40	2	254	1000		
60℃	60	2	272	1000		
90℃	90	2	149	800		
Mix	Cold	2	66	800	≤4kg	cotton fabrics/ cellulose comdound
40℃	40	2	78	800		
60℃	60	2	95	800		
Synthetic	Cold	2	61	800	≤3kg	cellulose compound
40℃	40	2	73	800		
Delicate	Cold	2	56	800	≤3kg	Gauze/Silk Fabric
20℃	20	2	59	800		
Tub Clean	60	2	78	800	—	Normal (Intensive,Time Save)
Spin	—	—	14	800	rated	cotton fabrics/cellulose comdound
Quick 15'	Cold	1	15	800	≤2kg	not too dirty and frequently used clothes
Rinse+Spin	Cold	2	34	800	rated	cotton fabrics/ cellulose compound
Note: 40℃ 60℃ is the standard energy efficiency program.						

Pre-delay: When use “Pre Delay” function for washing, the delay time is 3hours、6hours、9hours、12hours、15hours、18hours .

Door Lock: When operating, door lock effects automatically and the button is lighting；Press “Start/Pause”, tub stops for 2 mins, door is unlocked;High-temp and high water level

working, door is locked;

Child Lock: If you want to start child lock function, you should press “Pre Delay” button for 3 seconds ； To unlock the lock, you can press “Pre Delay” button for 3 seconds during any programs.

Tub-clean：Press Delay+Temp. for more than 3 seconds to start tub clean program

2-3-3 Additional functions

Power-off automatically: Finishing washing program about 10min, the machine will be powered-off automatically.

Eccentricity check: When spinning, the machine is loaded to check the eccentricity and find the spinning track automatically.

Defoam: When washing and spinning, the machine will check the foam and handle it accordingly.

Smart dewatering: When program is finished, the machine will check the water level whether it exceeds the inner tub or not. If yes, it will open the drain valve and let it comes down to the inner tub and closed the valve automatically.

Smart unlock: After program finished, if the water level is too high, drain pump will start to work until the level reaches the right line and it is unlocked. If the inner temp is too high, it will be unlocked when the temp comes down to the safe and waits for 1mins.

2-3-4 Control check

Abnormal heated pipe check: When the machine doesn’t work properly, broken or short circuit of the heated pipe will be checked and set the alarm.

Door lock check: Any abnormal action will cause the alarm when the door is locked or unlocked.

Speed check: When motor both runs and stops, the machine will alarm if the speed is abnormal.

Water temp sensor check: Abnormal sensor will cause an alarm.

Water level check: When the level is higher than overflow level, the machine will alarm

2-3-5 Process of electric units check

Function application s of LQC

- When plug-in, pressing Pre Delay，Prewash and ON/OFF at the same time means LQC effected

- Under this condition, only ON/OFFr, Start/Pause and Pre-delay are available

- Under this condition, press ON/OFF means power-off; press Start/Pause means units test as following steps; Press Pre Delay within 5s means Life Test effects.

Test each units function by following steps：

★Function application s of LQC :			
Steps	Function	Display	Note
1	Inject water, worker check the structure	/	The machine hasn’t power-on yet
2	Enter LQC	All lights shine 2s continuously	Press the Pre Delay，Prewash and ON/OFF together, then power on to move the next step.
3	Check the programs changes ande versions	it shows program changes-2S, and 2S of versions next	Move to the next step-Whether all LED lights are OK?
4	Check whether all LED lights are OK; check all using programs whether is ok(No need of draining)	Door lock light is on	Press the Start button to continue
5	Inlet test of prewash valve	Door lock light is on	press “Start” to next step
6	Inlet test of wash valve	Door lock light is on	press “Start” to next step
7	Inlet test of heated water valve，	Door lock light is on (except for the alarm light)	press “Start” to next step
8	Inlet confirm of Rinse (two valves)	Door lock light is on	press “Start” to next step
9	Heater test	Door lock light is on	press “Start” to

	(power-on 5s)		next step
10	Motor spinning with water test	Door lock light is on	Firstly rotate in 50 speed in clockwise for 5s, then stop for 3s,later change automatically in anticlockwise in 400 speed for 40s, afterwards move to the next step , the motor stopped, and pump started to drain. All situation over could start the next step
11	Drain pump test	Door lock light is on	press "Start" to next step(The water should be drained totally, otherwise when the level is over 2mm, it will alarm.
12	Motor test with no water and high speed	Door lock light is on	Drain totally, then move to the next step.
13	Motor test with no water and high speed	Door lock light is on	press "Start" to next step
14	LQC test finished	All lights are off	power-off

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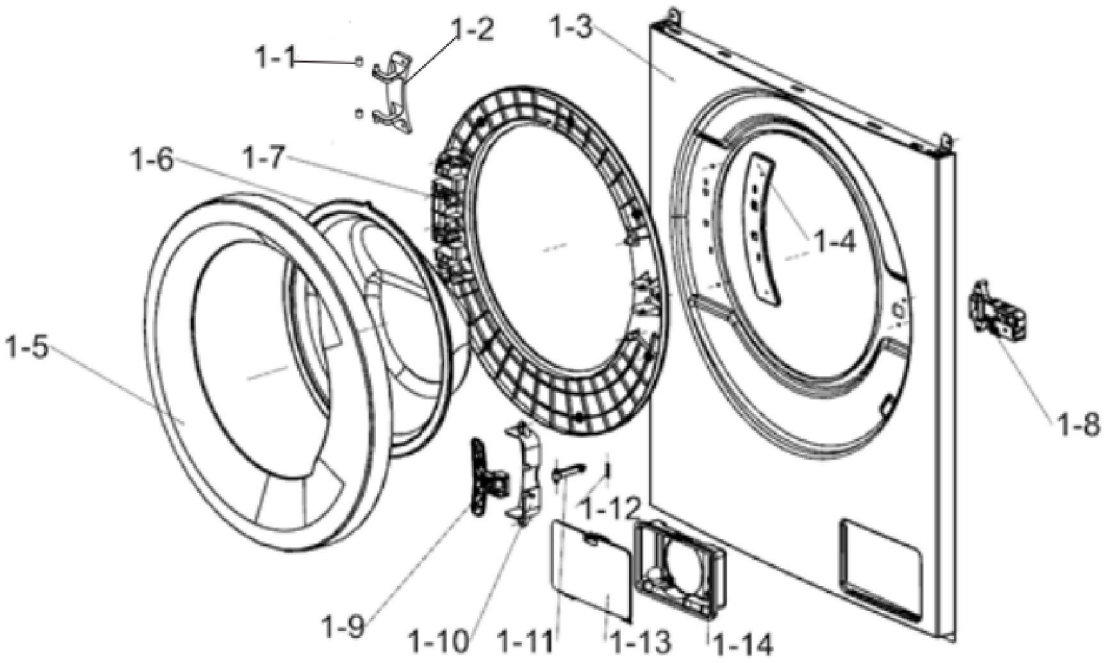
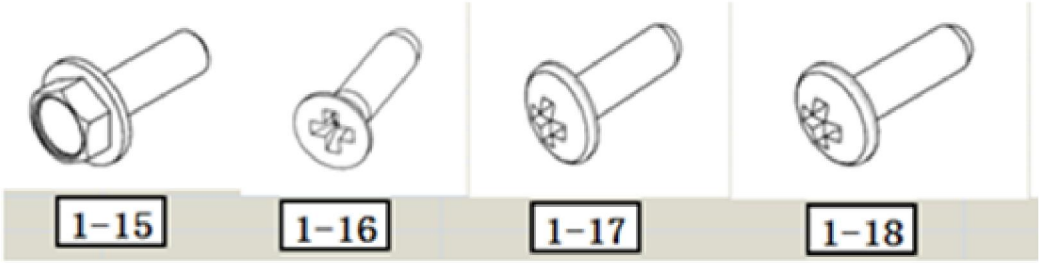
3 EXPLOSIVE VIEW

1. Cabinet cover asm

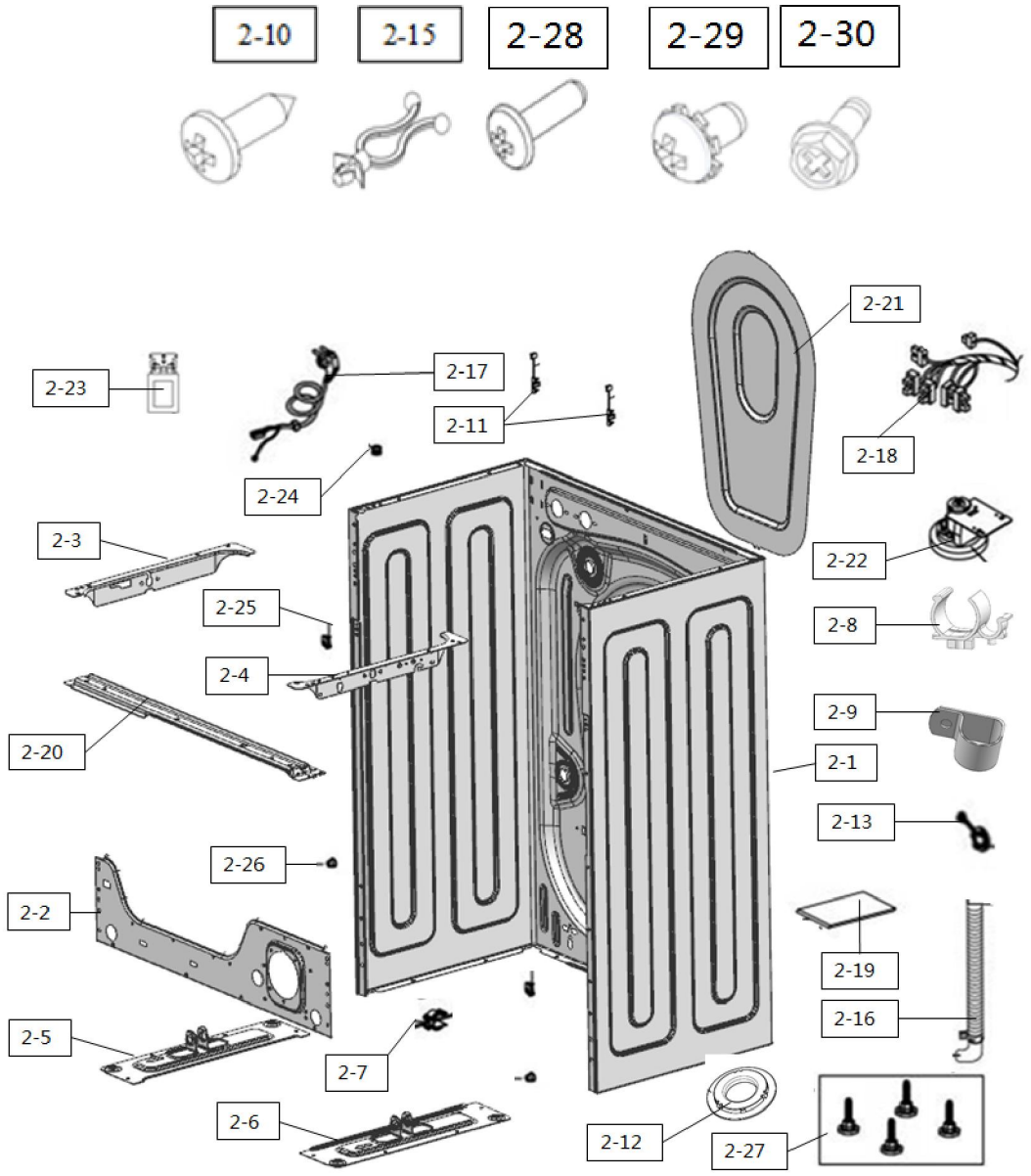




NO.	Chinese Name	English Name	Quantity	Unit	Note
1-1	门铰链帽子	Holder	2	PC	
1-2	门铰链	Door hinge	1	PC	
1-3	前门板-手动门锁	Cabinet Cover	1	PC	
1-4	门加强板	Door holder	1	PC	
1-5	外门	Outer door	1	PC	
1-6	门玻璃	Door glass	1	PC	
1-7	内门	Inner Door	1	PC	
1-8	门锁	Door switch	1	PC	
1-9	门把手	Door handle	1	PC	
1-10	门把手支架	Door handle holder	1	PC	
1-11	门卡勾	Latch hook	1	PC	
1-12	门销	Pin	1	PC	
1-13	排水盖板-欧系	Cap cover	1	PC	
1-14	排水盖板盒子-欧系	Case	1	PC	

1-15	门铰链螺栓	Bolt	2	PC	
1-16	螺钉	Screw	12	PC	
1-17	螺钉	Screw	6	PC	
1-18	螺钉	Screw	2	PC	

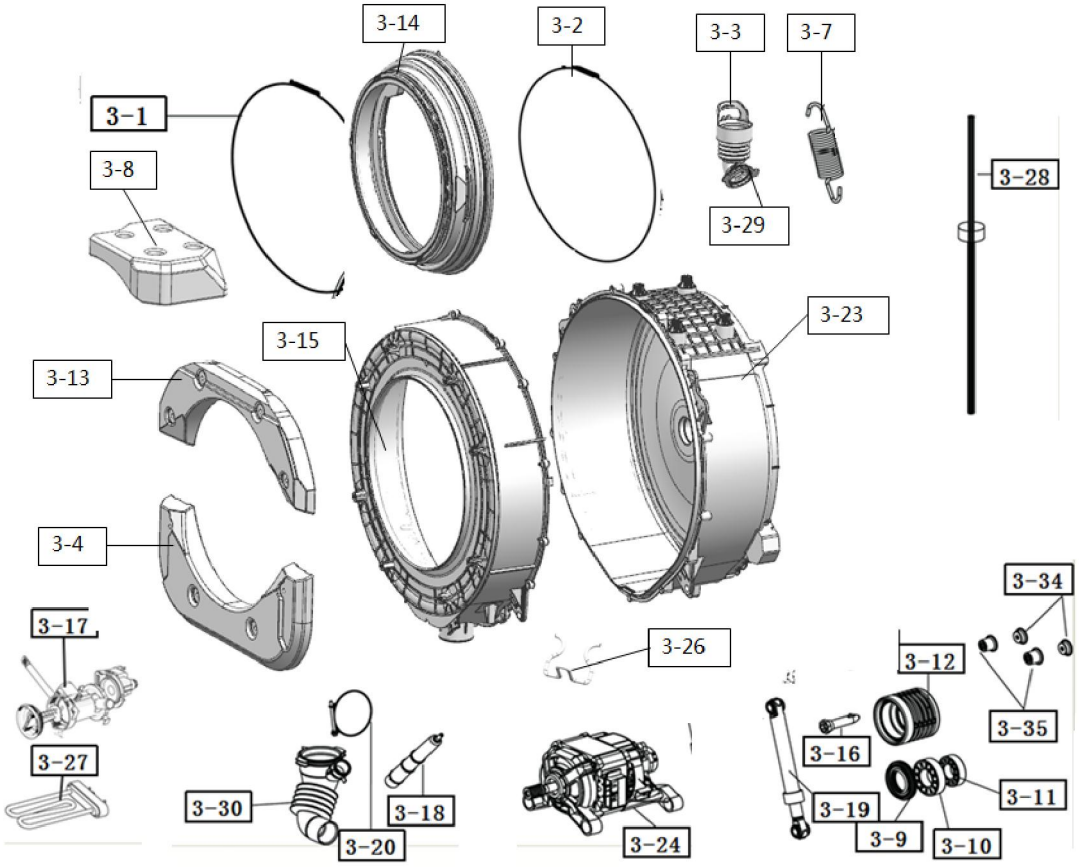
2. Cabinet asm



NO.	Chinese Name	English Name	Quantity	Unit	Note
2-1	箱体 PCM 钢板	Cabinet	1	PC	
2-2	下支架	Low Frame	1	PC	
2-3	上撑板-左	Top bracket-Left	1	PC	

2-4	上撑板-右	Top bracket-Right	1	PC	
2-5	下撑板-左	Base bracket-Left	1	PC	
2-6	下撑板-右	Base bracket-Right	1		
2-7	排水管卡	Holder	1	PC	
2-8	排水管卡	Holder	1	PC	
2-9	排水管卡	Holder	1	PC	
2-10	螺钉	Screw	1	PC	
2-11	吊簧卡座	Holder	2	PC	
2-12	排水管卡套	Holder	1	PC	
2-13	运输螺栓帽	Holder	4	PC	
2-14	铁线扎	Tread	1	PC	
2-15	八字线卡	Holder	4	PC	
2-16	排水管	Pump hose	1	PC	
2-17	电源线（低端）	Power Cord	1	PC	
2-18	主线束（低端倒置400）	Main harness	1	PC	
2-19	箱体海绵(侧)	Damper	1	PC	
2-20	上支架	Panel Frame	1	PC	
2-21	后盖板	Back Cover	1	PC	
2-22	水位传感器	Pressure switch	1	PC	
2-23	滤波器(低端 倒置)	Noise filter	1	PC	
2-24	上盖板卡	Holder	1	PC	
2-25	前门板销子	Holder	2	PC	
2-26	前门板销子	Holder	2	PC	
2-27	调整脚	Transport Bolt	4	PC	
2-28	螺钉	Screw	6	PC	
2-29	地线螺钉	Screw	2	PC	
2-30	螺钉	Screw	10	PC	

3. Tub asm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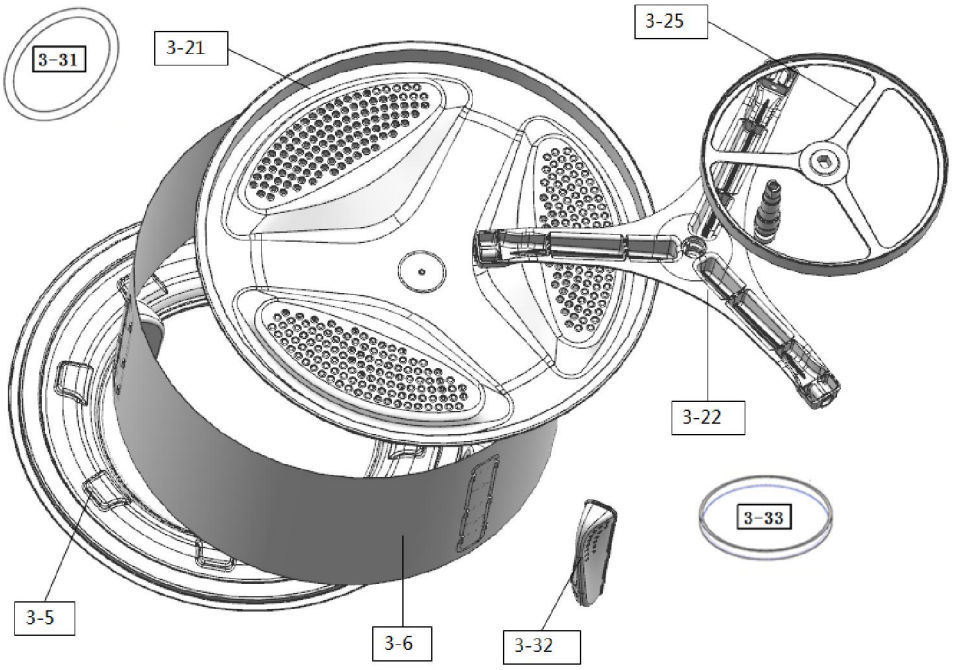
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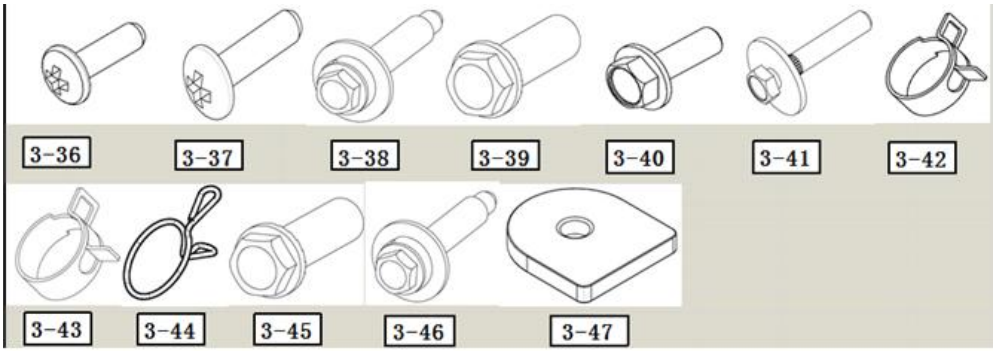
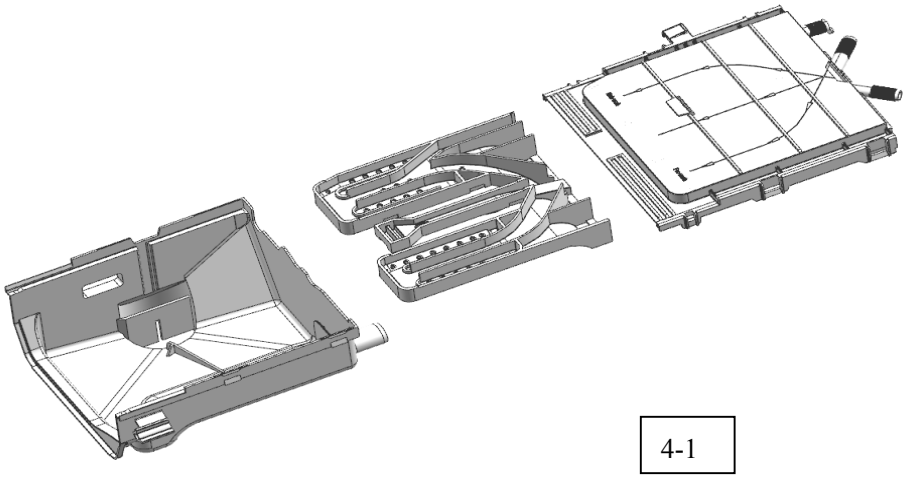


NO.	Chinese Name	English Name	Quantity	Unit	REMARKS
3-1	门密封圈卡簧(小)	Clamp	1	PC	
3-2	门密封圈卡簧(大)	Clamp	1	PC	
3-3	洗涤剂盒波纹管	Hose	1	PC	
3-4	前平衡块-3.6kg	Balance weight	1	PC	
3-5	内桶前盖	Inner tub,front	1	PC	
3-6	内桶桶身不锈钢钢板	Inner Tub,center	1940	G	
3-7	吊簧	Spring	2	PC	
3-8	上平衡块-9.5kg	Balance weight	2	PC	
3-9	水封	Water seal	1	PC	
3-10	轴承 6206	Bearing	1	PC	
3-11	轴承 6205	Bearing	1	PC	
3-12	轴盘	Bearing housing	1	PC	
3-13	前平衡块-5.4kg	Balance weight	1	PC	
3-14	门密封圈-440	Seal	1	PC	
3-15	外桶桶盖 PP+GF15	Tub cover	1	PC	
3-16	减震销	Damper pin	2	PC	
3-17	排水泵	Pump	1	PC	
3-18	气室	Air chamber	1	PC	
3-19	减震器	Damper	2	PC	
3-20	排水波纹管卡簧	Clamp	1	PC	
3-21	内桶桶底	Inner Tub,back	1	PC	
3-22	三脚架	Spider	1	PC	
3-23	外桶桶底 PP+GF15	Tub outer	1	PC	
3-24	串激电机	Universal Motor	1	PC	
3-25	皮带轮	Belt pulley	1	PC	
3-26	加热器支架	Heater bracket	1	PC	

3-27	加热器	Heater	1	PC	
3-28	水位传感器管子	Hose	1	PC	
3-29	洗涤剂盒波纹管管夹	Clamp	1	PC	
3-30	排水波纹管	Hose	1	PC	
3-31	密封圈	Seal	1	PC	
3-32	提升筋	Lifter	3	PC	
3-33	皮带	Belt	1	PC	
3-34	串激电机脚套	Cover	2	PC	
3-35	串激电机脚套	Cover	2	PC	
3-36	螺钉	Screw	7	PC	
3-37	螺钉	Screw	3	PC	
3-38	定子螺栓	Screw	6	PC	
3-39	皮带轮螺栓	Bolt	1	PC	
3-40	外桶螺栓	Bolt	12	PC	
3-41	平衡块螺栓	Bolt	13	PC	
3-42	气室片簧	Clamp	1	PC	
3-43	排水泵片簧	Clamp	1	PC	
3-44	洗涤剂盒管夹	Clamp	4	PC	
3-45	三脚架螺栓	Bolt	3	PC	
3-46	串激电机螺栓	Screw	2	PC	
3-47	串激电机螺栓垫片	Gasket	2	PC	

4. Dispenser asm/Drawer panel asm/Top plate asm/Control panel asm



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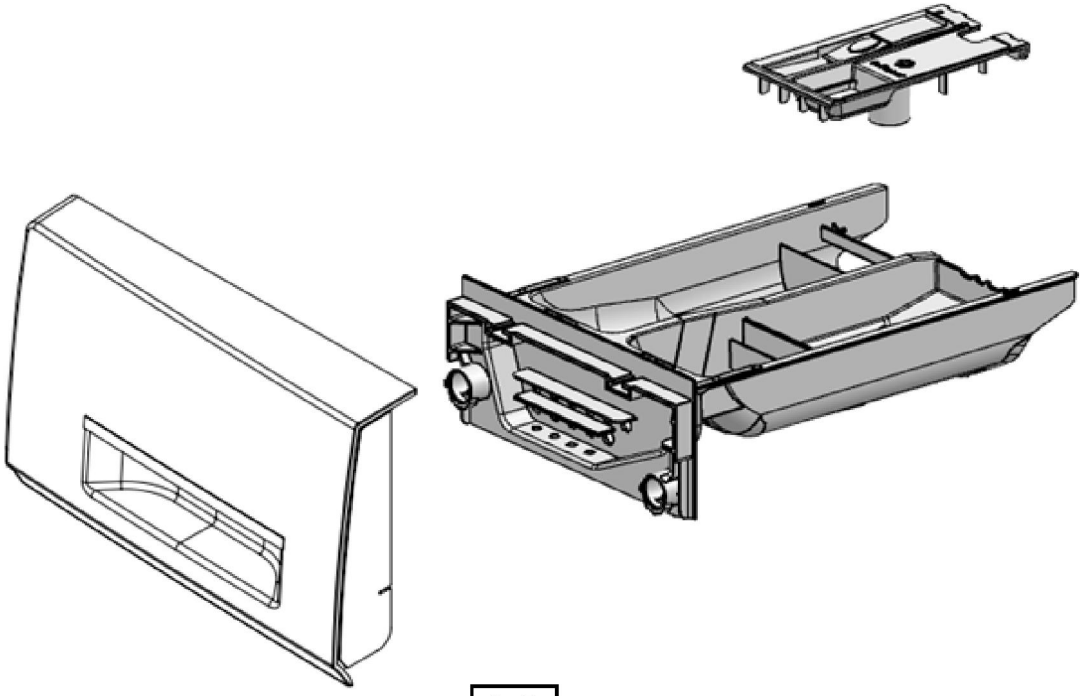

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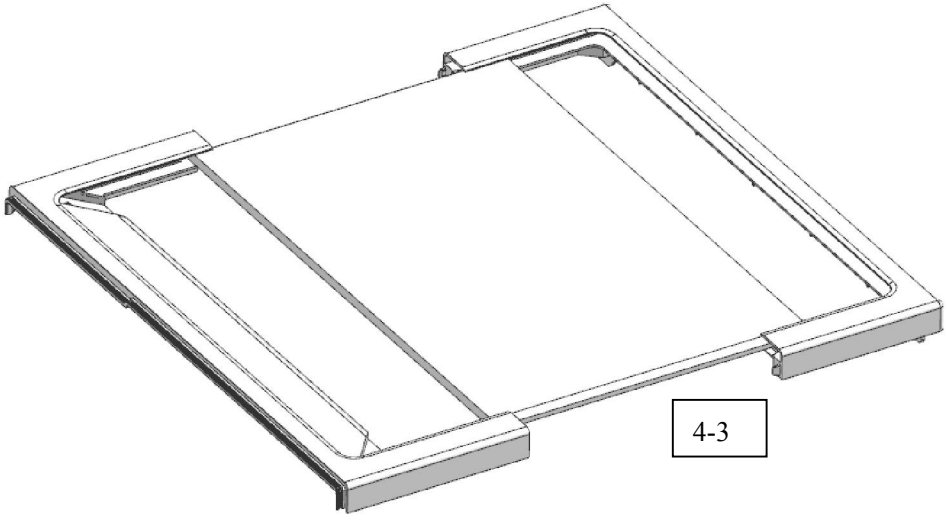

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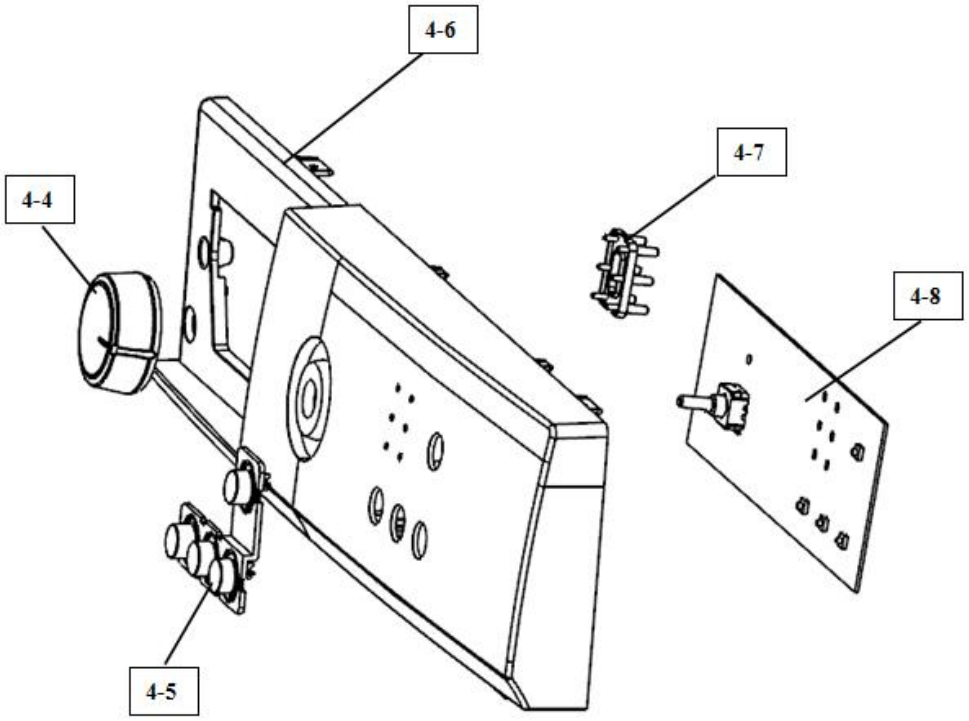
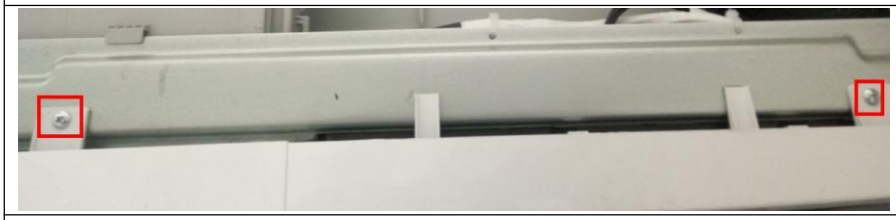
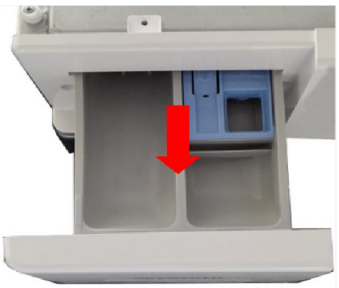
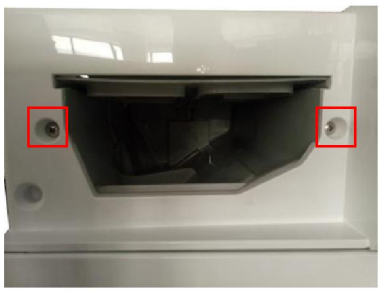
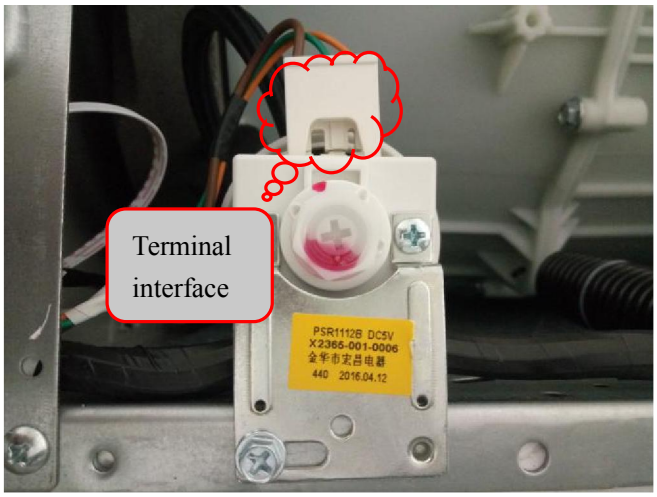
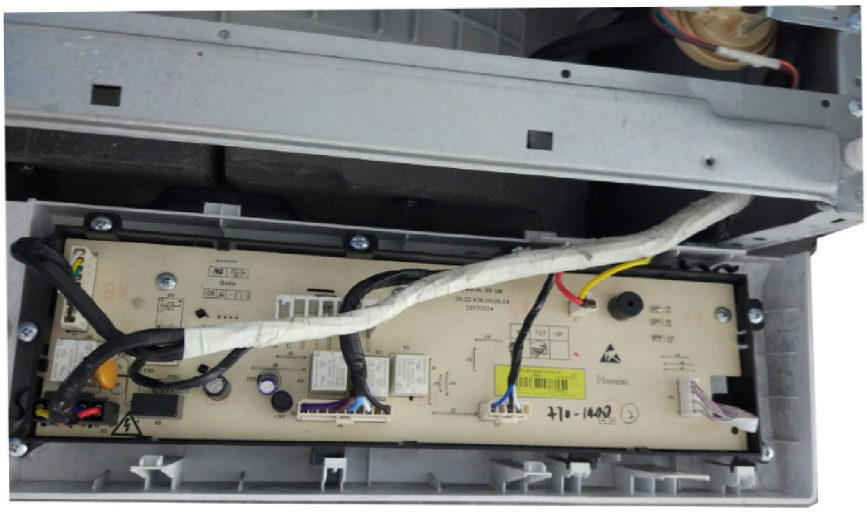
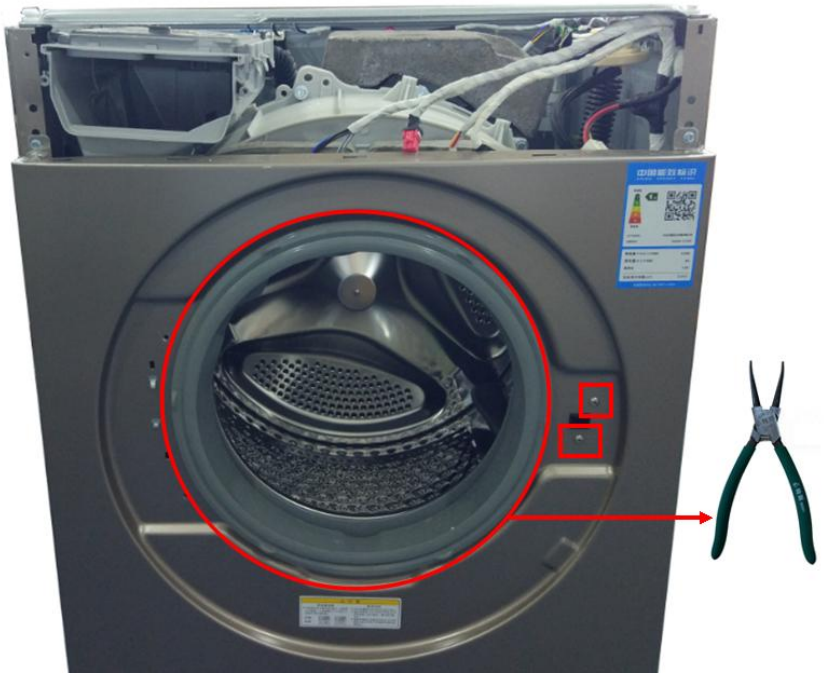


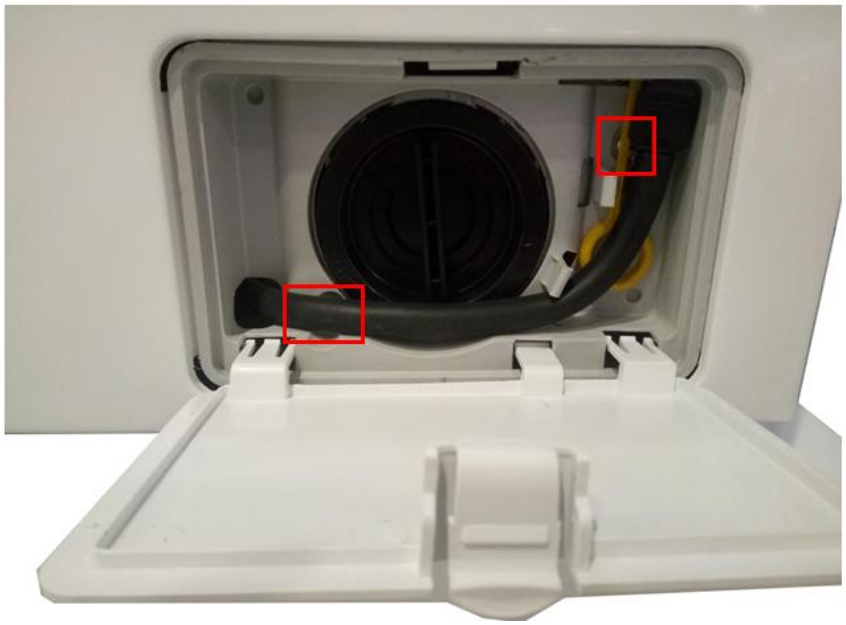
NO.	Chinese Name	English Name	Quantity	Unit	Note
4-1	洗涤剂盒组件	Dispenser assembly	1	PC	
4-2	抽屉面板组件	Drawer panel assembly	1	PC	
4-3	上盖板	Top plate assembly	1	PC	
4-4	旋钮	Knob	1	PC	
4-5	按键	Button	1	PC	
4-6	控制面板	Control panel	1	PC	
4-7	导光柱	Guide light column	1	PC	
4-8	电脑板	PWB assembly	1	PC	

4 Disassemble steps

Related pictures	Disassemble steps
	Remove 2 screws from the fixed upper cover.
	Push the cover and take it away as the arrow direction shows
	Remove 2 screws fixed from the control panel
 	1.Pull out the detergent parts 2.Remove 2 screws fixed from the detergent parts

 	1.Pull out the terminal of PWB and take it away. 2.Split the control panel:remove screws fixed from the PWB panel. 3.pry the knob parts. 4.Take out the display panel, button parts and the frame parts
	The replaced units as follows 1. detergent box parts; 2.water inlet pipe; 3.double inlet valve; 4.single inlet valve; 5 air pipe 6.water level sensor 7.balancing weight(up) 8.balancing spring and the base

	Remove 2 screws fixed from the door and take the parts away.
	1.Remove the spring coil from the door seal. 2.Remove 2 screws from the latch hook

	Open the cap cover, remove 2 screws fixed from it, take the cover and case away.
	1. Remove 6 screws from the door cover, 2. Take the front door cover as the arrow direction

	replaceable： 1.door seal 2.spring coil 3.balance weight(front left) 4.balance weight(front right) 5.drain pump; 6.drain pipe parts; 7.door switch
	Remove 4 screws from the back cover and take the cover away.

	Replacable： 1.Universal Motor（or Belt pulley）； 2.Heater parts；

5 Faults code

Phenomenon	Indicator light state				check points	solutions
	Child Lock	Wash	Rinse	Spin		
Water inflow	flash	light	quench	quench	● Check if turn the tap off? ● Is the water supply cut off or the water pressure too low? ● Are the water inlet pipes frozen? ● Are the filters blocked?	Open the stopcock. Please wait. Use hot water to unfreeze the pipes. Take out the filters and clean them.
Water outflow	flash	quench	light	quench	● Are the outlet pipes placed too highly? ● Are the outlet pipes frozen? ● Are the outlet pipes blocked? ● Are the floor drain blocked?	Please put away the outlet pipes and make sure the height within 1M. Use hot water to unfreeze the pipes. Take out the foreign matter and dredge the pipes. Clean the floor drain.
Door trouble	flash	quench	quench	light	● Make sure if start the washer without closing the door well.	Make sure the door truly closed
Spin trouble	flash	light	quench	light	● Check if disassemble the carriage bolt? ● Is the machine placed steadily? ● Are the clothes too small or light? ● Are the locknuts on under the feet tightened up?	Disassemble the carriage bolt. Place the machine on a steady ground. Add more clothes. Tighten up the locknuts.
Continuous water	flash	light	light	quench	Close the stopcock, pull the plug and ,entrust the after-sales service.	
No heating	flash	light	light	light	Please pull the plug and entrust the after-sales service	
when wash tub doesn't rotate.	flash	quench	quench	quench	Close the stopcock, pull the plug and , entrust the after-sales service.	
Too much foam					● Check if add too much detergent?	Add reasonable amount of detergent. Use the detergent correctly.

Notes:

1.When faults occur, only Power and Start/Pause button are available; If Child lock was set, it is available also.

Power button: power-off

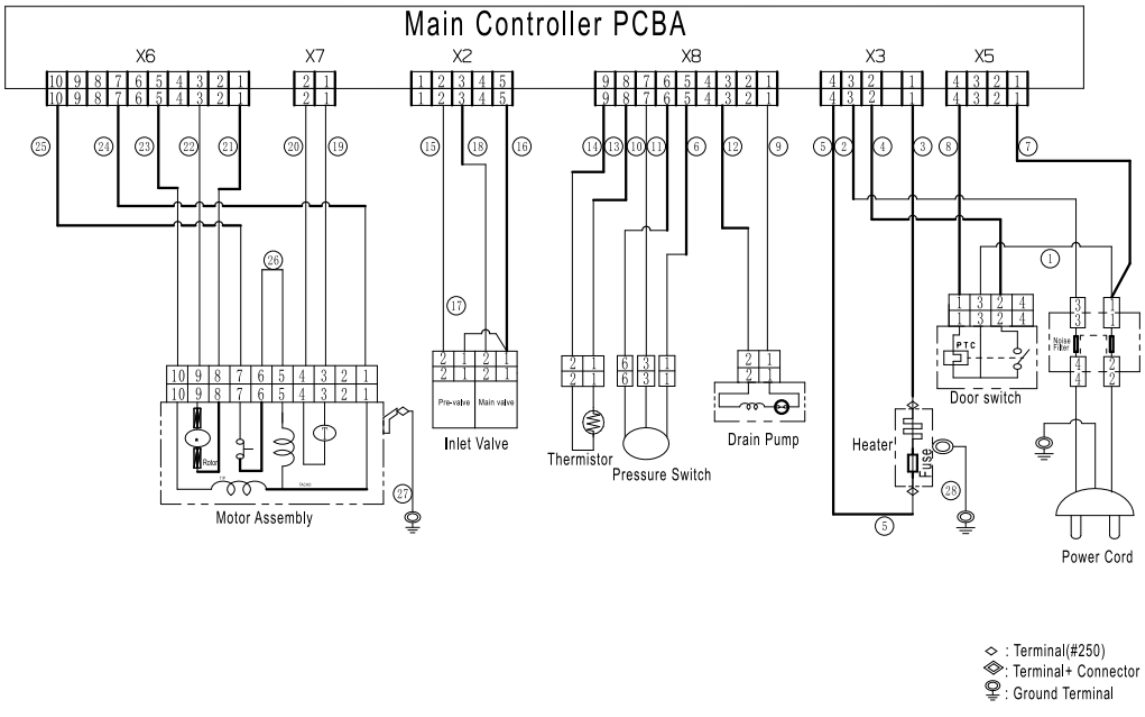
Start/Pause: first press stops alarming, second press continues the operation.

2. Dynamic balance NG alarms when the machine moves to spinning. When spinning from prewash or rinse program, if high speed spinning failed 28 times, please stop and move to next step.

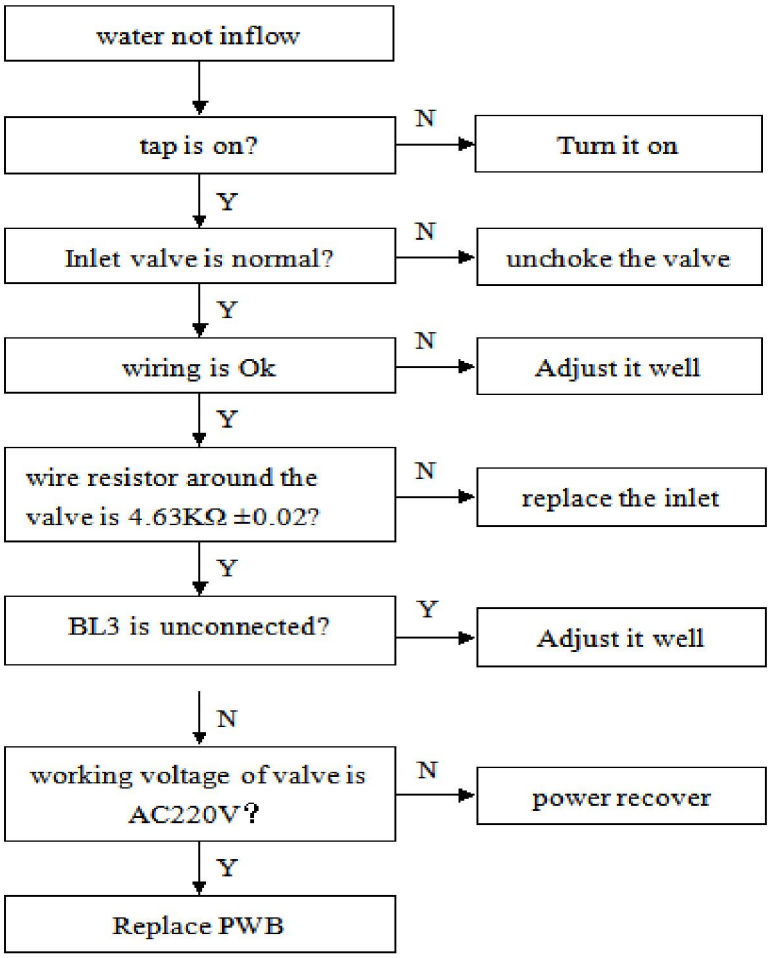
3. Additional notes of door lock alarm: The lock alarming under unusual shut(with too strong or light power) is not quality problem. It needs reset by another push to effect closing. Suggest customer to close the door as the picture shows.

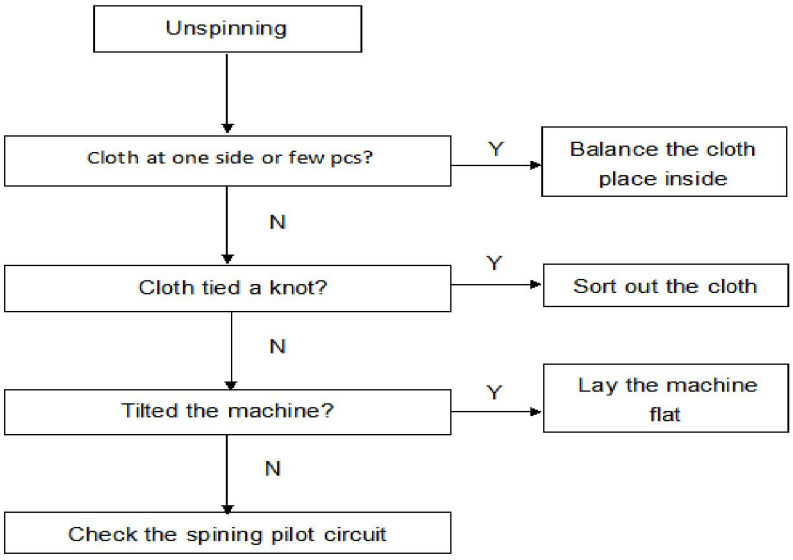
6 Common troubleshootings

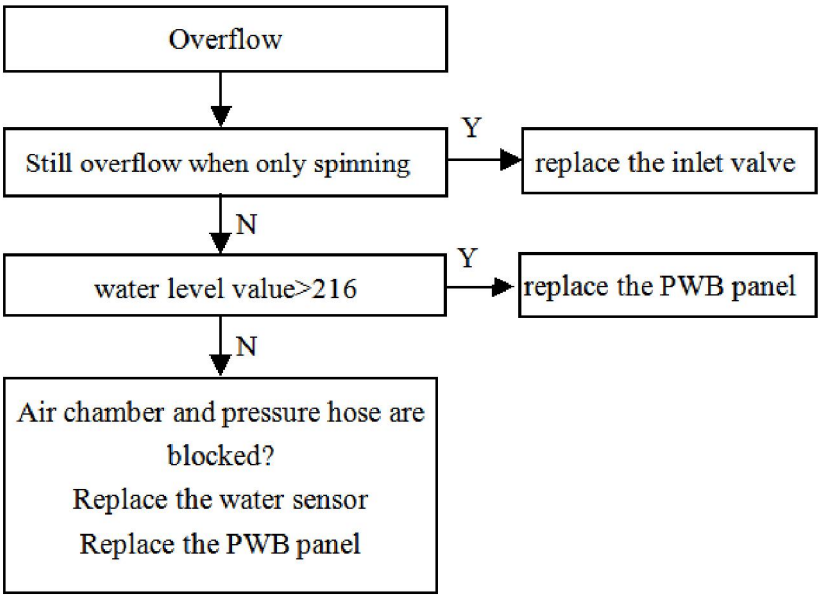
6-1 Circuit diagram

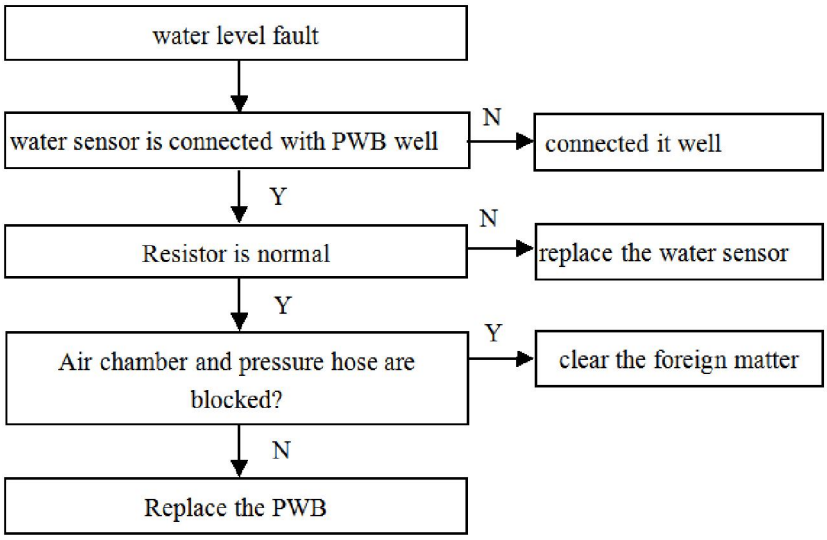


6-2 Troubleshooting procedure






Overflow
Still overflow when only spinning
Y
replace the inlet valve
N
water level value>216
Y
replace the PWB panel
N
Air chamber and pressure hose are blocked?
Replace the water sensor
Replace the PWB panel


water level fault
water sensor is connected with PWB well
N
connected it well
Y
Resistor is normal
N
replace the water sensor
Y
Air chamber and pressure hose are blocked?
Y
clear the foreign matter
N
Replace the PWB