

Galanz 格兰仕

售后服务手册

After-sales Service manual

自动滚筒洗衣机

Automatic Drum Washing Machine

XQG60-A708E

XQG60-A710DE

XQG60-A712DE

XQG70-A712DE

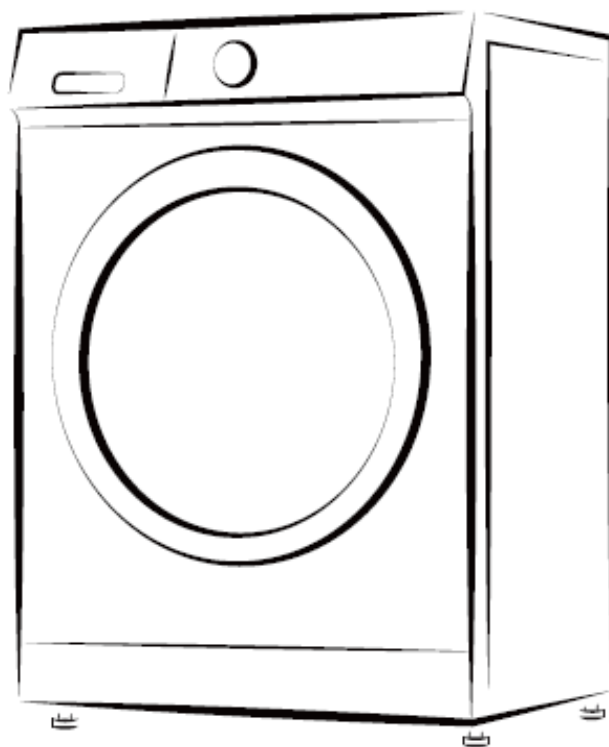
XQG60-Q710DE

XQG60-Q712DE

XQG70-Q712DE

XQG70-Q714DE

XQG70-F712DE



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1.适用机型 Models Covered

机型 Model	XQG60-A708E	XQG60-A710DE XQG60-A712DE XQG70-A712DE	XQG60-A712DE XQG70-A712DE (新欧标) (new European standard)	XQG60-Q710DE XQG60-Q712DE XQG70-Q712DE XQG70-Q714DE	XQG70-F712DE
品牌 Brand	Galanz				
日常洗 Daily	○	○	●	●	○
强力洗 Intensive	○	○	●	●	○
Eco 40-60	○	○	●	○	○
棉洗 Cotton	●	●	○	●	●
标准洗 Standard	●	●	○	○	●
冷水洗 Cool Wash	○	○	○	●	○
Eco 洗 Eco wash	○	○	○	○	●
高温洗 Sterilization	●	○	○	○	○
高温煮洗 Anti-Allergy	○	●	●	●	●
牛仔洗 Denim	○	○	○	○	●
大物洗 Heavy Bulky Item	○	○	○	●	●
环保筒清洁 Drum Clean	○	○	○	●	●
单脱水 Spin	●	●	●	●	●
漂洗+脱水 Rinse +Spin	○	○	○	●	●
静梦洗 Night wash	○	○	○	○	●
快洗 Quick wash	●	●	●	●	●
混合洗 Mix	○	○	●	●	●
超静漂 Rinse+	○	○	○	●	○

丝绸洗 Silk	○	○	○	○	●
羊毛洗 Wool	●	●	●	●	●
化纤洗 Synthetic	●	●	○	●	●
精细洗 Delicate	●	●	○	○	○

注：○表示没有此程序，●表示有此程序

Note: ○ means no such program, ● means there is such a program.

2.通用规范 General Specifications

2.1 电源规格 Power Specification

220V-240V, 50Hz

2.2 平台规格 Platform Specification

模型/平台 Model/platform	XQG60-A708E	XQG60-A710DE XQG60-A712DE XQG70-A712DE XQG60-Q710DE XQG60-Q712DE XQG70-F712DE	XQG70-Q712DE	XQG70-Q714DE
洗涤方式 Washing method	滚筒式 Drum type			
脱水方式 Spinning method	离心旋转 Horizontal-axle centrifugal spinning			
洗涤驱动方式 Washing drive method	电机+皮带 motor + belt			
脱水驱动方式 Spinning drive method	电机+皮带 motor + belt			
水位检测方法 Water level detection method	膜片式 Diaphragm type water level switch			
皮带 Belt	8 ribs	5 ribs		
桶尺寸 Inner drum size	270×φ480mm			
包装尺寸(W×D×H) Pack dimension	650×570×860mm	650×570×860mm	650×570×860mm	660×595×895mm
机器尺寸(W×D×H) Machine dimension	595×545×845mm			

最高转速 Top speed	800 rpm	1000/1200 rpm	1200 rpm	1400rpm
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2.3 程序洗涤规格 Program washing capacity

模型/平台 Model/platform	XQG60-A708E	XQG70-A712DE	XQG70-Q712DE	XQG70-F712DE
	XQG60-A710DE XQG60-A712DE XQG60-Q710DE XQG60-Q712DE		XQG70-Q714DE	
洗涤容量 Washing capacity				
日常洗 Daily	6 kg	7 kg	7 kg	-
强力洗 Intensive	6 kg	7 kg	7 kg	-
Eco 40-60	6 kg	7 kg	-	-
棉洗 Cotton	6 kg	7 kg	7 kg	7 kg
标准洗 Standard	6 kg	7 kg	-	7 kg
冷水洗 Cool Wash	-	-	5.5 kg	-
Eco 洗 Eco wash	-	-	-	5.5 kg
高温洗 Sterilization	3.5 kg	-	-	-
高温煮洗 Anti-Allergy	3.5 kg	4 kg	4 kg	4 kg
牛仔洗 Denim	-	-	-	4 kg
大物洗 Heavy Bulky Item	6 kg	-	7 kg	7 kg
环保筒清洁 Drum Clean	0 kg	-	0 kg	0 kg
单脱水 Spin	6 kg	7 kg	7 kg	7 kg
漂洗+脱水 Rinse + Spin	6 kg	-	7 kg	7 kg
静梦洗 Night wash	-	-	-	5 kg
快洗 Quick wash	1.5 kg	2 kg	2 kg	2 kg

混合洗 Mix	3.5 kg	4 kg	4 kg	4 kg
超静漂 Rinse+	6 kg	-	7 kg	-
丝绸洗 Silk	-	-	-	3.5 kg
羊毛洗 Wool	1.5 kg	2.5 kg	2.5 kg	3.5 kg
化纤洗 Synthetic	3.5 kg	3.5 kg	3.5 kg	3.5 kg
精细洗 Delicate	2 kg	2.5 kg	-	-

注：程序洗涤容量请参考说明书

Note: Refer to the manual for program washing capacity.

2.4 主要部件规格 Main components specifications

组件名称 Component name	规格 Specification
排水泵 Drain pump	220V-240V, 50Hz
启动/暂停开关 Start/pause switch	按键 Touch
水位开关 Water level switch	250V~, 16A
洗涤脱水电机 Washing motor	串激电机, 220-240V 50/60Hz Series motor, 220-240V 50/60Hz
洗涤加热管 Heating element for washing	230V~, 1900W
温度传感器 Temperature sensor	电阻 R (25℃)=12kΩ Resistance R(25℃)= 12kΩ
选项开关 Options switch	旋钮 Rotary type
门锁开关 Interlock switch	250V~, PTC
进水阀 Water valve	220V-240V, 50Hz/60Hz

注：机型示意图，因门组件不同，机门存在差异。

Notes: Model diagram, due to different door components, the door is different.



XQG60-A708E

XQG60-A710DE

XQG60-A712DE

XQG70-A712DE



XQG60-Q710DE

XQG60-Q712DE

XQG70-Q712DE

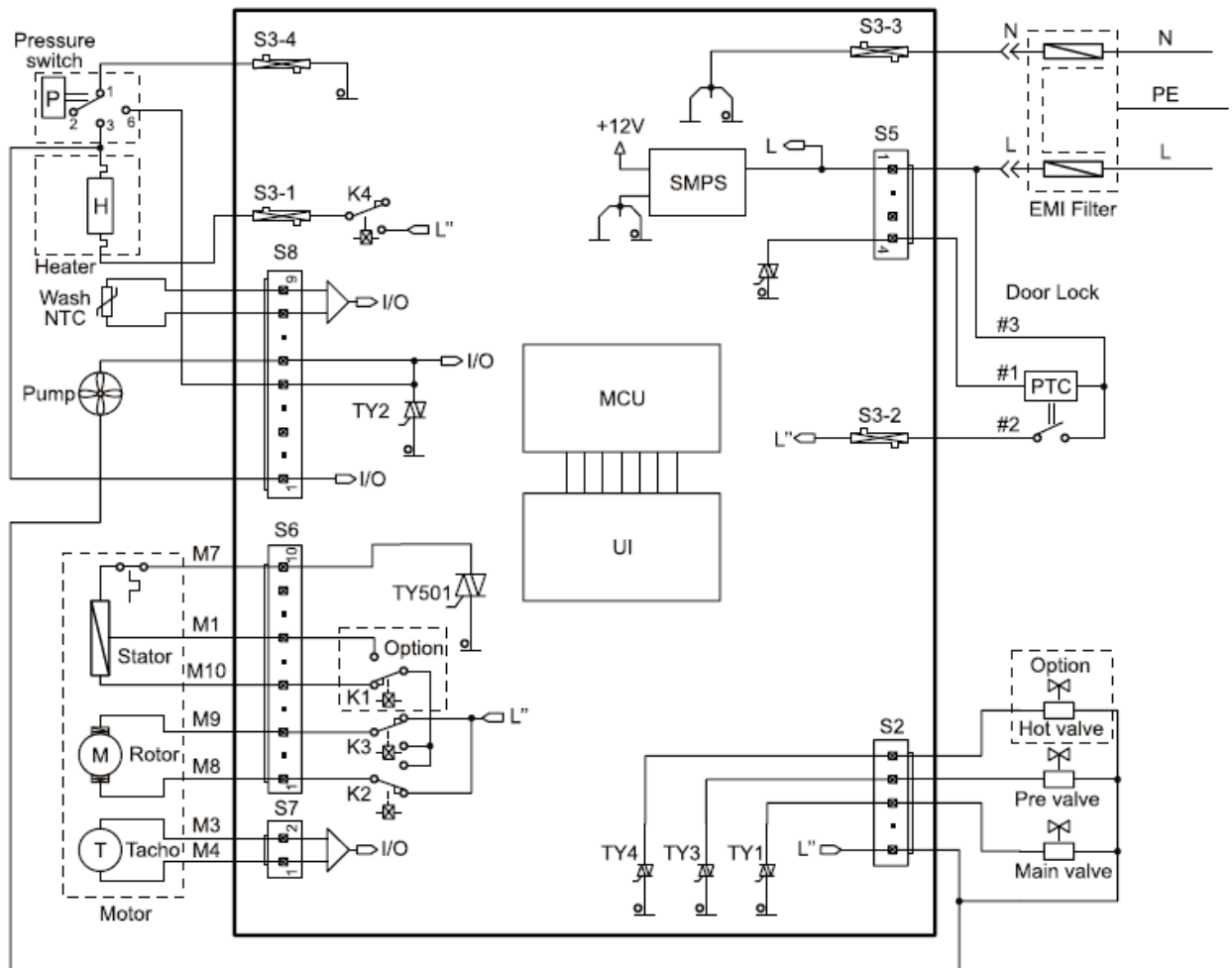
XQG70-Q714DE



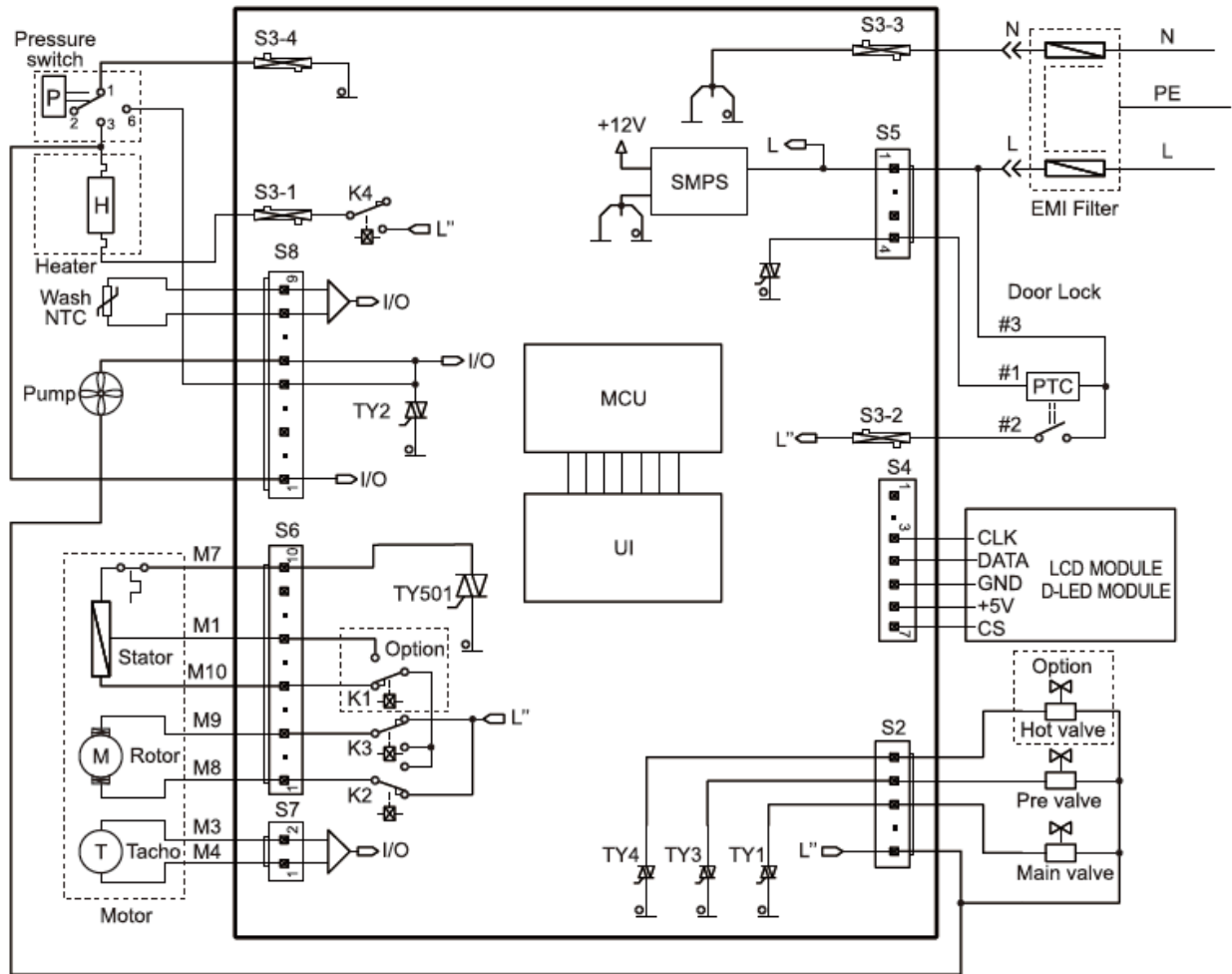
XQG70-F712DE

3. 电路图 Circuit Diagram

1) XOG60-A708E/XQG60-A710DE/XQG60-A712DE/XQG70-A712DE



2) XQG60-Q710DE/XQG60-Q712DE/XQG70-Q712DE/XQG70-Q714DE/XQG70-F712DE



4. 结构 Structure

4.1 结构图 Structure diagram

详见装配图

See assembling drawing.

4.2 水管系统 Water line system

进水：进水管—进水阀—进水阀软管 1—进水斗—外桶

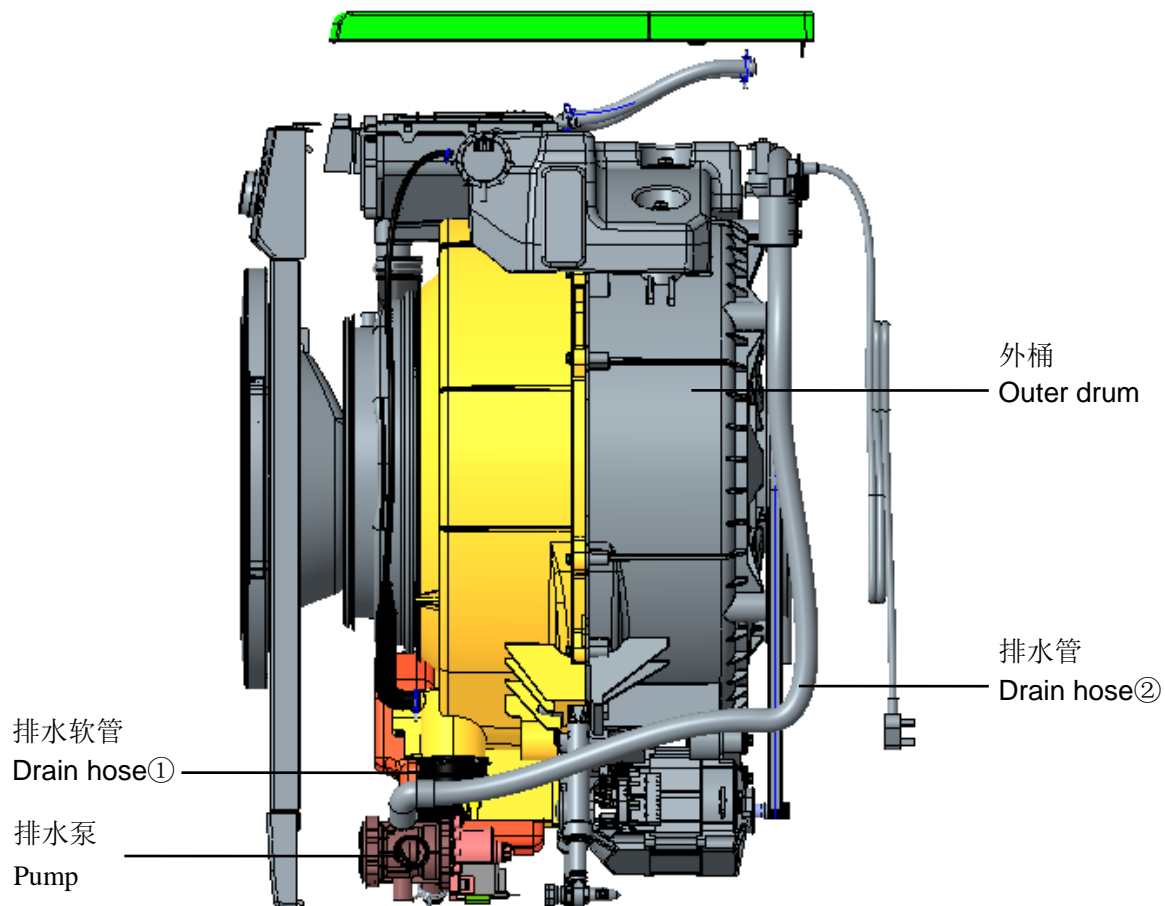
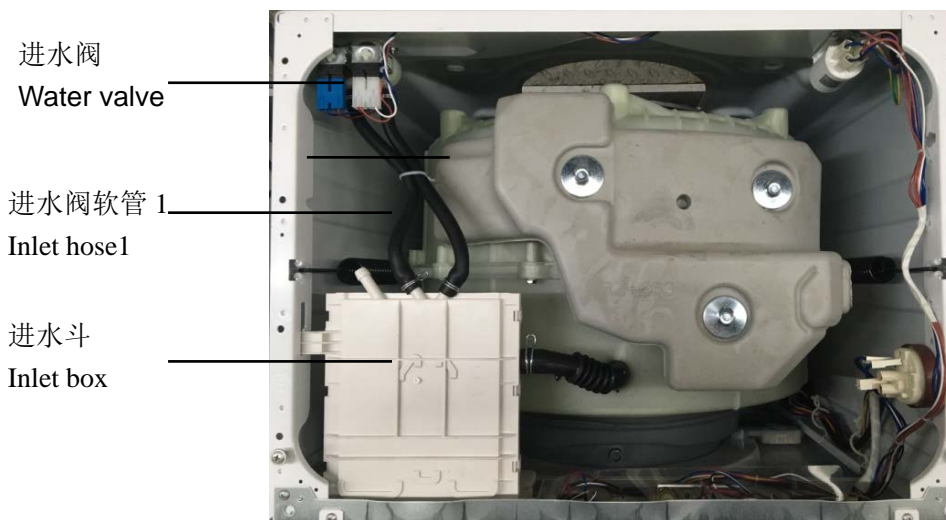
Water inflow: Inlet pipe—Water valve—Inlet hose 1—Inlet box—Outer drum

排水：外桶—排水软管—排水泵—排水管

Drain: Outer drum—Drain hose ⊕ Drain Pump—Drain hose ②

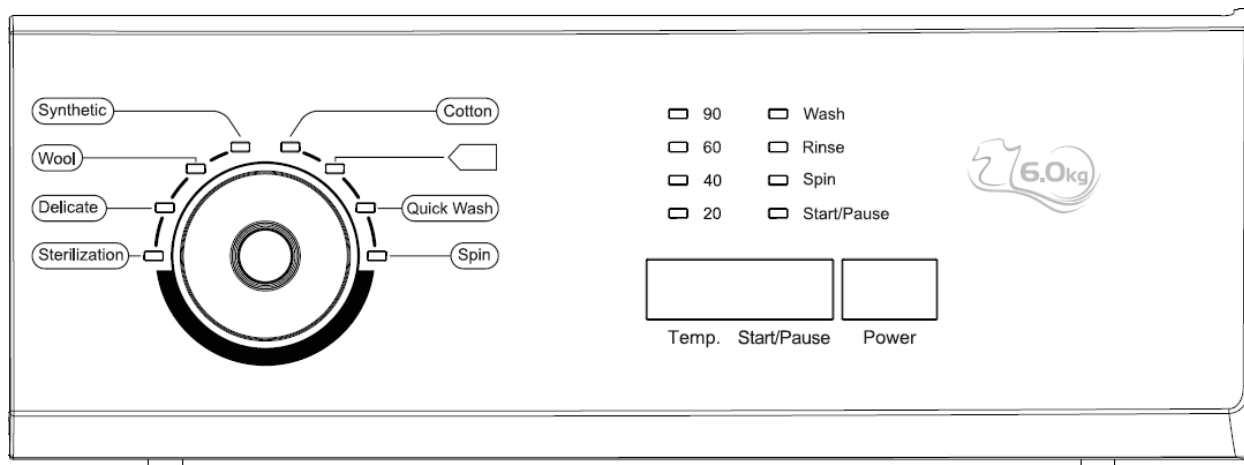
示意图如下：

Schematic diagram is as follows:

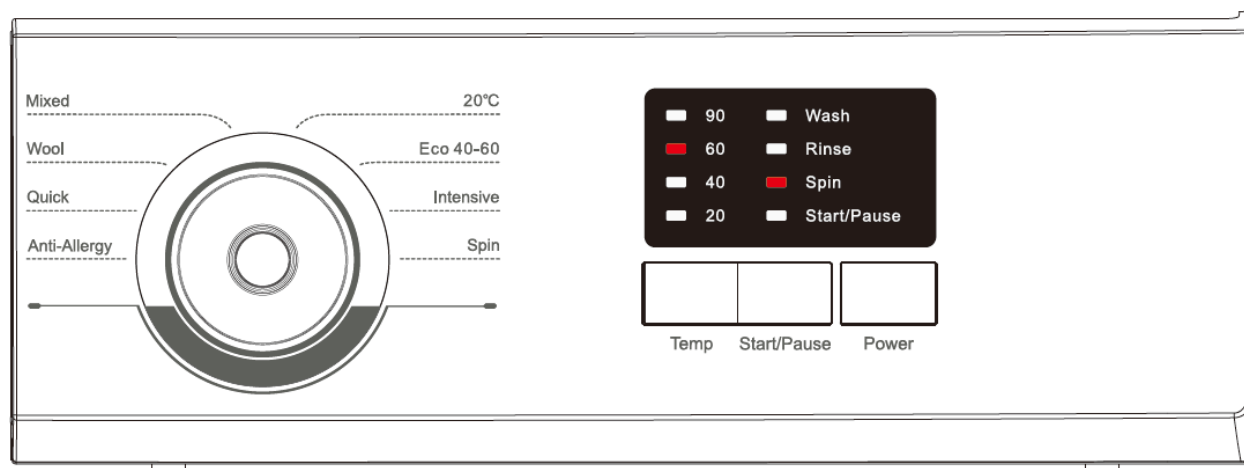


5.功能设置及显示 Function Settings and Display

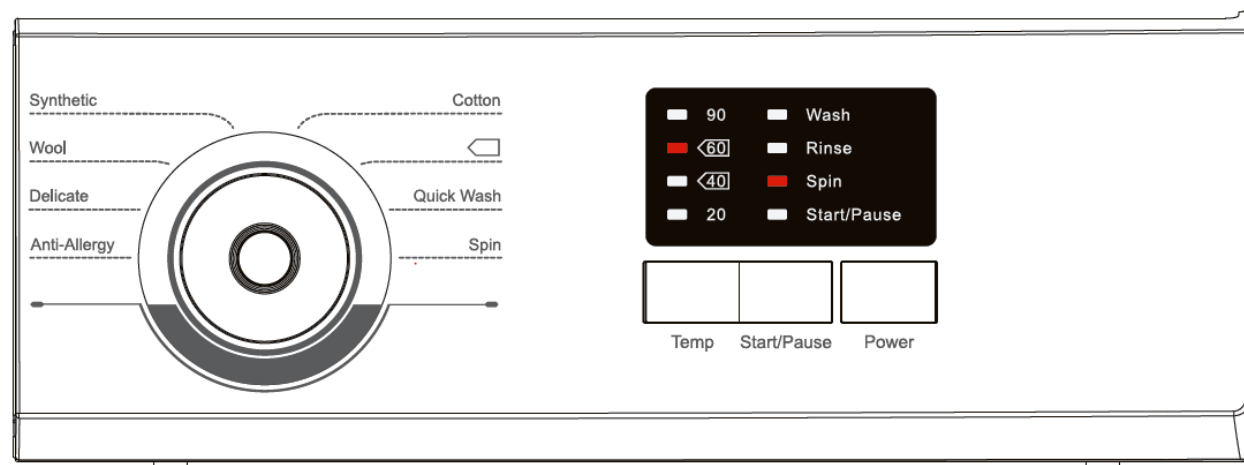
5.1 控制面板 Control panel figures



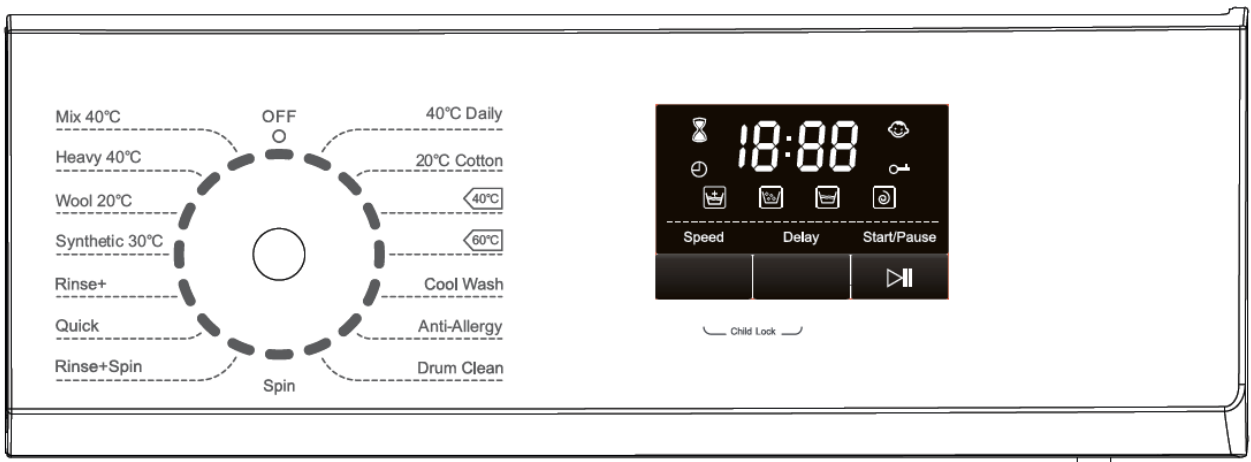
XQG60-A708E



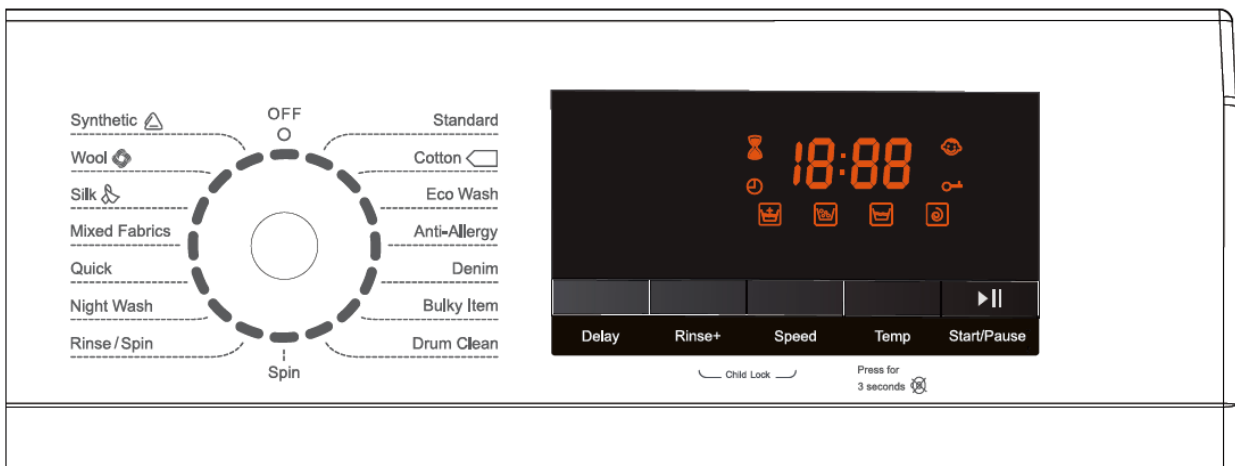
XQG60-A712DE/ XQG70-A712DE (新欧标 new European standard)



XQG60-A710DE/XQG60-A712DE/XQG70-A712DE



XQG60-Q710DE/XQG60-Q712DE/XQG70-Q712DE/XQG70-Q714DE



XQG70-F712DE

5.2 面板操作 Panel operation

5.2.1 整机状态描述 Complete machine status description

NO.	当前状态 Current state	描述 Describe
1	掉电 Outage	电源线没有插接,没有电源输入 The power cord is not plugged in, there is no power input.
2	关机 Off	只插上电源, 无需任何按键操作, 所有显示器和负载均关闭 Just plug in the power, without any key operation, and all the displays and loads are off.
3	待机 Standby	待机状态下, 转动旋钮改变程序 In standby mode, turn the knob to change the program.
4	运行 Running	完成程序选择后, 按“启动/暂停”按键, 程序进入运行模式 After selecting the program, press the "Start/Pause" button, and the program enters the running mode.
5	暂停 Pause	程序运行时, 按“启动/暂停”键, 程序进入暂停模式 When the program is running, press the "Start/Pause" key to enter the pause mode of the program.

6	预约 Delay	按预约键选择程序预约时间，并按启动键进入预约状态 Press the "Delay Start" key to select the appointment time, and press the Start button to enter the reservation status.
7	报警 Alarm	故障状态时，电脑板检测到相应的故障并显示对应的故障代码。 In the fault state, the PCB detects the corresponding fault and displays the corresponding fault code.
8	维修模式 Maintenance mode	用于检测或故障判断 For detection or failure judgment.

5.2.2 程序功能表 Program function list

1) XQG60-A708E

程序 Program	通用功能 General function	附加功能 Additional function					
	自动断电 Automatic power off	加漂洗 Rinse+	转速 Speed	温度 Temp	童锁 Child lock	预约 Delay	中途添衣 Midway add clothes
棉洗 Cotton	★	○	○	●	○	○	○
标准洗 Standard	★	○	○	●	○	○	○
高温洗 Sterilization	★	○	○	○	○	○	○
单脱水 Spin	★	○	○	○	○	○	○
快洗 Quick wash	★	○	○	●	○	○	○
羊毛洗 Wool	★	○	○	●	○	○	○
化纤洗 Synthetic	★	○	○	●	○	○	○
精细洗 Delicate	★	○	○	●	○	○	○

注：○表示该功能不可选，●表示可选，★表示默认开启

Notes: ○ indicates that this feature is not optional; ● indicates that it is optional; ★ indicates that this feature is turned on by default.

2) XQG60-A710DE/XQG60-A712DE/XQG70-A712DE

程序 Program	通用功能 General function	附加功能 Additional function					
	自动断电 Automatic power off	加漂洗 Rinse+	转速 Speed	温度 Temp	童锁 Child lock	预约 Delay	中途添衣 Midway add clothes
棉洗 Cotton	★	○	○	●	○	○	○
标准洗 Standard	★	○	○	●	○	○	○
高温煮洗 Anti-Allergy	★	○	○	○	○	○	○

单脱水 Spin	★	○	○	○	○	○	○
快洗 Quick wash	★	○	○	○	○	○	○
羊毛洗 Wool	★	○	○	●	○	○	○
化纤洗 Synthetic	★	○	○	●	○	○	○
精细洗 Delicate	★	○	○	●	○	○	○

注：○表示该功能不可选，●表示可选，★表示默认开启

Notes: ○ indicates that this feature is not optional; ● indicates that it is optional; ★ indicates that this feature is turned on by default.

3) XQG60-A712DE/XQG70-A712DE (新欧标 new European standard)

程序 Program	通用功能 General function	附加功能 Additional function					
	自动断电 Automatic power off	加漂洗 Rinse+	转速 Speed	温度 Temp	童锁 Child lock	预约 Delay	中途添衣 Midway add clothes
日常洗 Daily	★	○	○	○	○	○	○
Eco 40-60	★	○	○	○	○	○	○
强力洗 Intensive	★	○	○	●	○	○	○
单脱水 Spin	★	○	○	○	○	○	○
高温煮洗 Anti-Allergy	★	○	○	○	○	○	○
快洗 Quick wash	★	○	○	○	○	○	○
羊毛洗 Wool	★	○	○	●	○	○	○
混合洗 Mix	★	○	○	●	○	○	○

注：○表示该功能不可选，●表示可选，★表示默认开启

Notes: ○ indicates that this feature is not optional; ● indicates that it is optional; ★ indicates that this feature is turned on by default.

4) XQG60-Q710DE/XQG60-Q712DE/XQG70-Q712DE/XQG70-Q714DE

程序 Program	通用功能 General function	附加功能 Additional function					
	自动断电 Automatic power off	加漂洗 Rinse+	转速 Speed	温度 Temp	童锁 Child lock	预约 Delay	中途添衣 Midway add clothes
日常洗 Daily	★	○	●	○	●	●	○

棉洗 Cotton	★	○	●	○	●	●	○
40 强力洗 Intensive	★	○	●	○	●	●	○
60 强力洗 Intensive	★	○	●	○	●	●	○
冷水洗 Cool Wash	★	○	●	○	●	●	○
高温煮洗 Anti-Allergy	★	○	●	○	●	●	○
环保筒清洁 Drum Clean	★	○	○	○	●	●	○
单脱水 Spin	★	○	●	○	●	●	○
漂洗+脱水 Rinse + Spin	★	○	●	○	●	●	○
快洗 Quick wash	★	○	●	○	●	●	○
超静漂 Rinse+	★	○	●	○	●	●	○
化纤洗 Synthetic	★	○	●	○	●	●	○
羊毛洗 Wool	★	○	●	○	●	●	○
大物洗 Heavy	★	○	●	○	●	●	○
混合洗 Mix	★	○	●	○	●	●	○

注：○表示该功能不可选，●表示可选，★表示默认开启

Notes: ○ indicates that this feature is not optional; ● indicates that it is optional; ★ indicates that this feature is turned on by default.

5) XQG70-F712DE

程序 Program	通用功能 General function	附加功能 Additional function					
	自动断电 Automatic power off	加漂洗 Rinse+	转速 Speed	温度 Temp	童锁 Child lock	预约 Delay	中途添衣 Midway add clothes
棉洗 Cotton	★	●	●	●	●	●	○
标准洗 Standard	★	●	●	●	●	●	○
Eco 洗 Eco wash	★	●	●	○	●	●	○
高温煮洗 Anti-Allergy	★	●	●	○	●	●	○
牛仔洗 Denim	★	●	●	●	●	●	○
大物洗 Bulky Item	★	●	●	●	●	●	○
环保筒清洁 Drum Clean	★	○	○	●	●	●	○

单脱水 Spin	★	○	●	○	●	●	○
漂洗+脱水 Rinse + Spin	★	●	●	○	●	●	○
静梦洗 Night wash	★	○	●	●	●	●	○
快洗 Quick wash	★	●	●	○	●	●	○
混合洗 Mix	★	●	●	●	●	●	○
丝绸洗 Silk	★	●	●	●	●	●	○
羊毛洗 Wool	★	●	●	●	●	●	○
化纤洗 Synthetic	★	●	●	●	●	●	○

注：○表示该功能不可选，●表示可选，★表示默认开启

Notes: ○ indicates that this feature is not optional; ● indicates that it is optional; ★ indicates that this feature is turned on by default.

5.2.3 按键/旋钮功能 Button/Knob function

按键/旋钮功能：电源（无显示屏机型）、启动/暂停，温度，转速，加漂洗、预约按键和程序 1 个旋钮

Button/Knob functions: Power (Non-display models), Start/Pause, Temp, Speed, Rinse+, Delay and 1 program knob.

NO.	产品状态 Product state	按键/旋钮 Buttons/Knob	操作和显示 Operation and display
1	关机 Off	启动/暂停 Start/Pause	按键无效且显示关闭 The key is invalid and the display is off
		温度 Temp	
		预约 Delay	
		转速 Speed	
		加漂洗 Rinse+	
		旋钮 Knob	显示屏机型：选择运行程序 Display models: Select run program 非显示屏机型：旋钮无效 Non-display models: The knob is invalid
2	待机 Standby	电源 Power	按压断开电源 Press to switch off
		启动/暂停	所选程序立即启动

		Start/Pause	The selected program starts immediately
		预约 Delay	选择预约时间 Select the delay time
		温度 Temp	选择洗涤温度 Select the wash temperature
		转速 Speed	选择脱水转速 Select the spin speed
		加漂洗 Rinse+	选择漂洗次数 Select the rinse times
		旋钮 Knob	改变运行程序 Change the running program
3	运行 Running	电源 Power	长按 3 秒断开电源 Long press 3 seconds to switch off
		启动/暂停 Start/Pause	暂停 Pause
		温度 Temp	显示设定温度 Display the set temperature
		预约 Delay	按键无效 The key is invalid
		转速 Speed	显示设定转速 Display the set temperature
		加漂洗 Rinse+	显示设定漂洗次数 Display set the number of rinsing times
		旋钮 Knob	显示屏机型: Display models: 显示“Err” Display “Err” 旋至 OFF 档关机 Turn to off to shut down 童锁状态下, 旋动旋钮都显示“Err” In the child lock state, turning the knob will display "err" 非显示屏: Non-display models: 旋钮无效 The knob is invalid
4	暂停 Pause	电源 Power	按压断开电源 Press to switch off
		启动/暂停 Start/Pause	继续停止前的程序 Continue the procedure before stopping
		预约 Delay	按键无效 The key is invalid

		温度 Temp	加热开始前可改变洗涤温度 The washing temperature can be changed before heating
		转速 Speed	最后一次脱水前可改变脱水转速 The dehydration speed can be changed before the last dehydration
		加漂洗 Rinse+	主洗洗涤阶段可改变漂洗次数 The rinsing times can be changed in the main washing stage
		旋钮（除“OFF”档） Knob (Except “OFF”)	改变运行程序 Change the running program
5	预约 Delay	启动/暂停 Start/Pause	预约暂停 Appointment pause
		温度 Temp	预约暂停可选择洗涤温度 The washing temperature can be selected when the appointment is suspended
		转速 Speed	预约暂停可选择脱水转速 The dehydration speed can be selected for reservation pause
		加漂洗 Rinse+	预约暂停可选择漂洗次数 The rinsing times can be selected when the appointment is suspended
		旋钮（除“OFF”档） Knob (Except “OFF”)	旋钮无效 The knob is invalid
6	报警 Alarm	电源 Power	按压断开电源 Press to switch off
		启动/暂停 Start/Pause	复位或保持报警状态 Reset or keep alarm state
		预约 Delay	按键无效 The key is invalid
		旋钮（旋至“OFF”档） Knob (Except “OFF”)	关闭机器 Shut down the machine

5.3 特殊功能 Special Functions

5.3.1 自动断电 Automatic power-off

洗涤周期结束后，机器进入待机状态。控制面板上没有任何控制，10 分钟后电源关闭。

When washing cycle is finished, the machine will change into standby mode. And the power will be off after 10 minutes without any control on the control panel.

5.3.2 平衡 Balance

洗衣机装有自动感应系统，在脱水时能自动检测衣物的平衡性，为了保护洗衣机不受损坏，在检测到衣物的平衡性差或偏心大时，洗衣机会通过适当延长脱水时间来调整衣物的平衡性，或脱水时洗衣机以较低的转速运行。

The washing machine is equipped with an automatic sensing system, which can automatically detect the balance of the clothes during dehydration. In order to protect the washing machine from damage, the washing machine will adjust the balance of the clothes by appropriately extending the dehydration time when the clothes are detected to have poor balance or large eccentricity. The washing machine runs at a lower speed during dehydration.

5.3.3 温度 Temp

按压此按键可以选择不同的洗涤温度，不同的程序可选择的温度不一样。

Press this button repeatedly to change the wash temperature. Different programs can choose different temperatures.

5.3.4 转速 Speed

按压此按键可以选择不同的脱水转速，不同的程序其可选的转速不一样。

Press this button repeatedly to change the spin speed. Different programs have different speed options.

5.3.5 加漂洗 Rinse+

按压此按键可以选择不同的漂洗次数。不同程序可选的漂洗次数不同。

Press this button repeatedly to change the rinse times. Different programs can choose different rinsing times.

5.3.6 童锁 Child lock

为了防止洗衣机在洗涤过程中因儿童误操作导致的不正常洗涤，可启动童锁功能。

The function of "Child lock" is to lock the control panel to prevent the misuse by children.

1) Q 系列：机器启动时同时按压“速度”和“预约”键 3 秒，然后屏幕上的“👤”图标就亮了，表示工作启动童锁功能，然后通过重复按压这两个按键来取消童锁功能。童锁功能启动后，所有按键和旋钮的操作都会在工作时发出警报声，紧急情况下，你可以将旋钮转到“o”位置来关机。此功能只有在洗涤程序开始后才能激活，洗涤程序结束后自动取消。

Q Series: Press the "Speed" and "Delay" buttons for 3 seconds after washing cycle was started, then

the icon “😊” is lighted up on the screen means it's works. And it can be release via to repeat press again those two buttons again.

All keys and knob's operation will be aborted with alerts while it's works, and you can power off your appliance via turn the knob to “O” position in urgent case.

This function only can be activated after washing cycle started and it will be release automatically after washing cycle finished.

2) F 系列: 机器启动时同时按压“加漂洗”和“速度”键 3 秒, 然后屏幕上的 “😊” 图标就亮了, 表示工作启动童锁功能, 然后通过重复按压这两个按键来取消童锁功能, 童锁功能启动后, 除了将程序旋钮旋至 “O” 位置进行关机外, 其他所有按键操作无效。

F Series: Press the “Rinse+” and “Speed” buttons at the same time for 3 seconds. When the icon “😊” is lighted up on the screen, the function works. . And it can be release via to repeat press again those two buttons again.

When this function works, all keys and knob are not available, except for the knob turn to the position “O”.

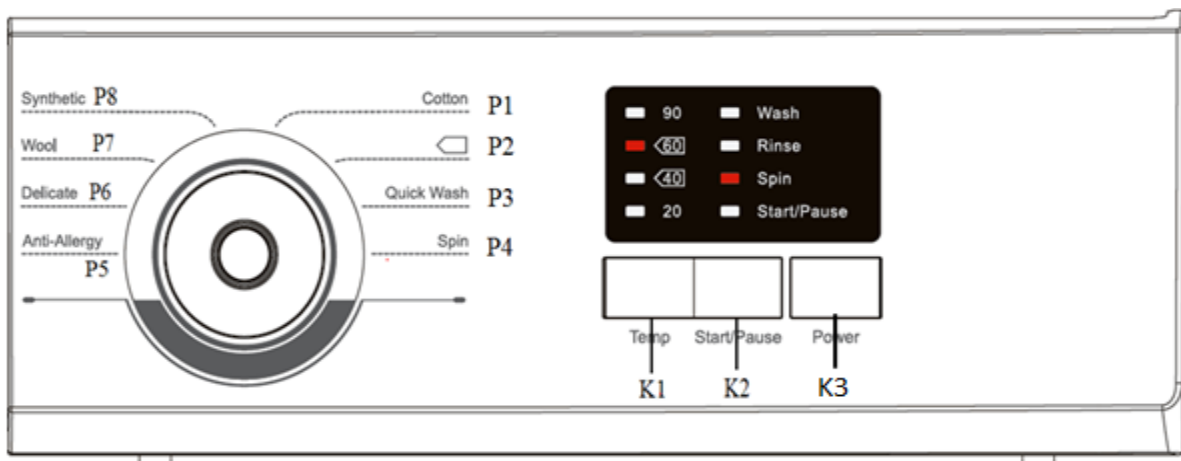
5.3.7 预约 Delay

按压此按键可以预约洗衣机启动时间, 预约时间为 1-24 小时。预约时间从按压启动按键后开始计算。

Press this button repeatedly to set the delay time of the starting of a wash cycle from 1 hour to 24 hours.

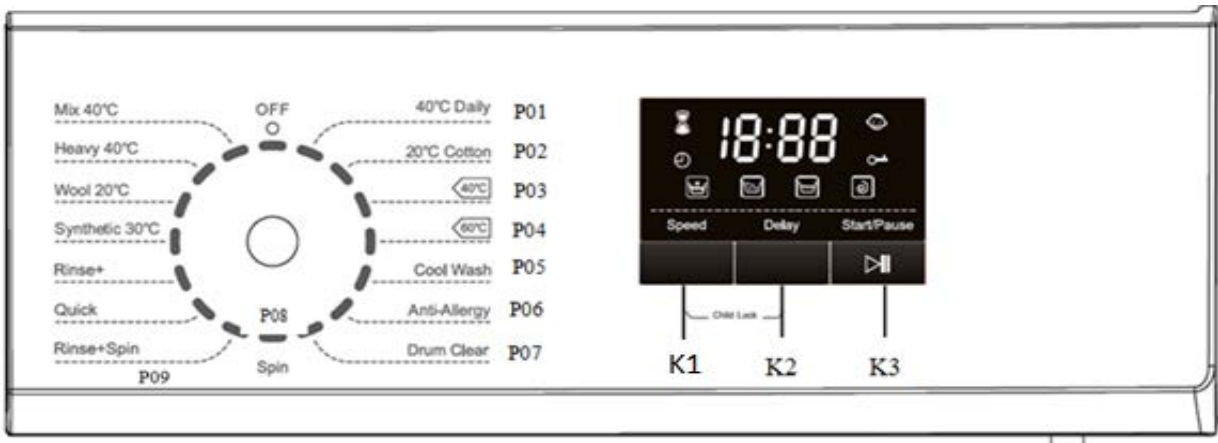
6. 服务测试程序 Service Testing Procedures

6.1 按键注释 Key notes:



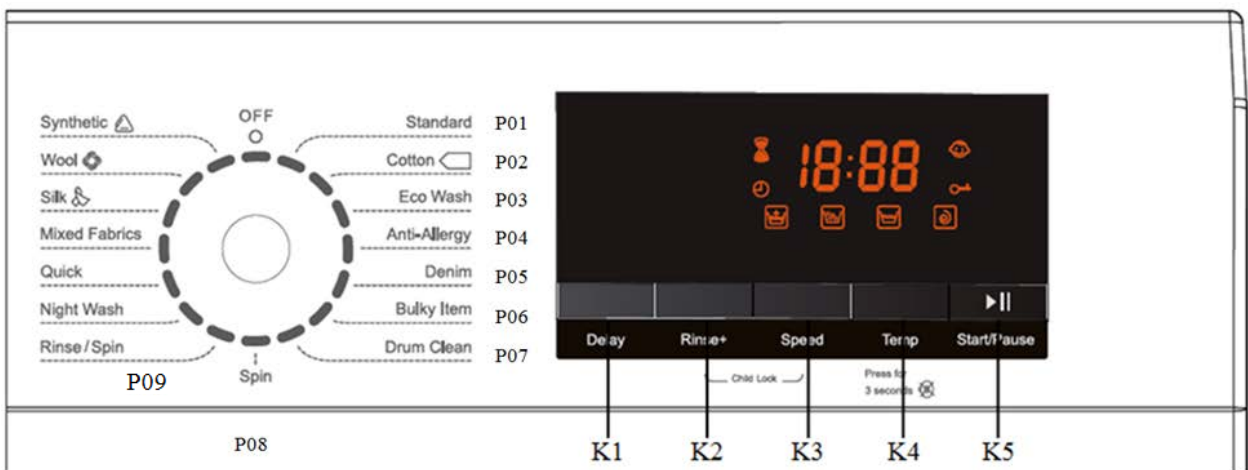
K1 键: Temp; K2 键: Start/Pause; K3 键: Power

K1 key: Temp; K2 key: Start/Pause; K3 key: Power



K1 键: Speed; K2 键: Delay; K3 键: Start/Pause

K1 key: Speed; K2 key: Delay; K3 key: Start/Pause



K1 键: Delay; K2 键: Rinse+; K3 键: Speed; K4 键: Temp; K5 键: Start/Pause

K1 key: Delay; K2 key: Rinse+; K3 key: Speed; K4 key: Temp; K5 key: Start/Pause

6.2 服务模式 Service mode

程序运行在服务模式下，用户不影响正常系统，通过运行部分功能模块来测试的相应子系统的工作状态。

When the program runs in the service mode, the user can test the working state of the corresponding subsystem by running some functional modules without affecting the normal system.

6.2.1 显示屏机型 Display models

6.2.1.1 进入服务模式 Entering service mode

将旋钮旋到 P02 位置，同时按住 K1+K2 键，然后插入电源，显示屏显示 "P2"，按启动暂停键，显示屏显示 "t2"，此时进入服务模式，旋转旋钮进入相应的测试程序。

Turn the knob to position P02, press and hold the K1+K2 keys, then insert the power supply, the display screen will display "P2", press the Start/Pause key, the display screen will display "t2", then enter the service mode; turn the knob to enter the corresponding test program.

程序进入服务模式时，自动锁门排空筒内积水。在排水过程中，屏蔽所有按键动作并且童锁指示灯以 1Hz 的频率闪烁。当水排空后，童锁自动解除，所有按键恢复有效，并显示当前测试步骤 t01~t08。不同测试程序之间通过程序选择旋钮切换。

When the program enters the service mode, the door is automatically locked to empty the water in the cylinder. During the drainage process, all key actions are shielded and the child lock indicator light flashes at the frequency of 1Hz. When the water is drained, the child lock will be released automatically, all buttons will be valid, and the current test steps t01~t08 will be displayed. The program selection knob is used to switch between different test programs.

D-LED/LCD Model:

旋钮位置 Position knob	测试代码显示 Test code display
P01	t01
P02	t02
...	...
P07	t07
P08	t08

旋钮选择测试程序，按第一次启动暂停键确定选择，按第二次启动暂停键启动执行当前选定的测试程序，按第三次启动暂停键取消当前正在执行的测试程序，排空筒内积水并且返回到选择测试程序状态。在测试程序运行过程中，如果旋动程序选择旋钮，程序将排空筒内积水并且返回到测试程序选择模式。在测试模式下，屏蔽所有错误报警和软件安全保护功能模块，以方便测试程序检测相应功能模块的工作情况。

The knob selects the test program. Press the first "Start/Pause" key to confirm the selection, press the second "Start/Pause" key to start the currently selected test program, press the third "Start/Pause" key to cancel the currently executing test program, drain the water in the cylinder and return to the selected test program state. During the running of the test program, if you turn the program selection knob, the program will drain the water in the cylinder and return to the test program selection mode. In the test mode, all error alarms and software security protection function modules are shielded to

facilitate the test program to detect the working conditions of the corresponding functional modules.

6.2.1.2 显示错误代码 (t02) Display error code (t02)

1) 显示错误代码并且允许售后服务技术人员检测和清除相应的错误代码纪录。

1) Display error codes and allow after-sale service technicians to detect and clear the corresponding error code records.

2) 按启动暂停键进入测试程序，显示屏显示“Ert”。按启动暂停键显示最新的错误信息。如果记录错误的存储模块没有记录到错误信息，则显示屏显示“NEr”。

2) Press the “Start/Pause” button to enter the test program. The display screen will display “Ert”. Press the “Start/Pause” button to display the latest error message. If the memory module recording the error does not record the error message, then the screen displays “NEr”.

3) 长按 K1 键 3 秒钟不放，清除存储模块中记忆的所有错误代码。错误代码清除后，显示屏显示“NEr”。

3) Hold the K1 key for 3 seconds to clear all the error codes in memory in the storage module. After the error code is cleared, the screen displays “NEr”.

4) 存储模块仅存储最新发生的 1 个错误代码。

4) The storage module only stores the latest error code.

6.2.1.3 版本信息检测 (t03) Version information detection (t03)

软件版本检测显示当前软件的版本信息（即：prg version）和非易失性存储器中存储的产品信息（即：客户产品号，共 3 位）。

The software version detection displays the version information of the current software (i.e. PRG version) and the product information stored in the nonvolatile memory (i.e. customer product number, 3 digits in total).

1) 将旋钮旋到 P02 位置，同时按住 K1+K2 键，然后插入电源，显示屏显示 "P2"；

Turn the knob to P02 and hold down the k1+K2 key. Then insert the power and the display will display "P2".

2) 按启动暂停键，显示屏显示“t2”，旋钮旋转到 P03 档位显示屏显示 “t3”。

Press the start/ pause button, and the display will display "t2". Turn the knob to P03 and the display will display "t3".

3) 连续按两次启动暂停键，显示“cod”，稍等几秒后显示屏循环显示程序的大小版本号“VXX”、“0XX”。

Press the start/pause button twice in a row to display "COD". After a few seconds, the screen will display the size version numbers "VXX" and "0XX" of the program.

6.2.2 非显示屏机型 Non-display models

6.2.2.1 进入服务模式 Entering service mode

通电前按住 K1+K2 键不放，通电后直到听到蜂鸣器发出“嘀、嘀、嘀”三声，提示已经进入特殊选择模式。界面显示：程序选择旋钮指示灯显示当前程序旋钮的位置，同时“启动/暂停”指示灯以 1Hz 的频率闪烁。

Hold the K1+K2 button before power on, until the buzzer "di, di, di" is heard, indicating that the special selection mode has been entered. Interface display: the program selection knob indicator shows the current position of the program knob, while the "start/stop" indicator flashes at the frequency of 1Hz.

6.2.2.2 显示错误代码 Display error code

进入服务模式后，将程序旋钮转至 P3 位置，按下开始/暂停键，程序进入错误代码显示模式，在此模式下：

After entering service mode, turn the knob to P3, press the start/ pause button, the program enters error code display mode, in this mode:

1) 温度指示灯显示当前错误代码的 Index (Index 范围 1-10)

The temperature indicator displays the Index of the current error code. (Index range 1 to 10)

2) 流程指示灯显示对应的错误代码，显示方式见故障代码表

The flow indicator will display the corresponding error code. See the fault code table for the display mode.

3) 按温度键切换上一次的错误代码，最多可显示最近的 10 次错误代码，然后循环显示

Press the temperature key to switch the error code of the last time. The most recent 10 error codes can be displayed, and then display in a loop.

4) 存储模块最多可以存储最新发生的 10 个错误代码。连续两个相同的错误代码只记录一次

The storage module can store up to 10 error codes of the latest occurrence. Two consecutive identical error codes are logged only once.

5) 如果故障代码存储区中没有记录错误信息，不会有温度指示灯和流程指示灯的提示

If no error message is recorded in the fault code storage area, there will be no indication of temperature indicator and process indicator.

6.2.2.3 版本信息检测 Version information detection

1) 通电前按住 K1+K2 键不放，通电后直到听到蜂鸣器发出“嘀、嘀、嘀”三声，提示已经进入特殊

选择模式。界面显示：程序选择旋钮指示灯显示当前程序旋钮的位置，同时“启动/暂停”指示灯以 1Hz 的频率闪烁。

Hold the K1+K2 button before power on, until the buzzer "di, di, di" is heard, indicating that the special selection mode has been entered. Interface display: the program selection knob indicator shows the current position of the program knob, while the "start/stop" indicator flashes at the frequency of 1Hz.

2) 将程序旋钮转至 P2 位置，按下启动/暂停键，面板显示当前软件版本的信息。控制板断电后退出当前显示模式。

Turn the knob to P2, press the start/ pause button, the panel displays information about the current software version. Exit the current display mode after the control panel is powered off.

软件版本信息参考：

Software version information reference:

LED_Temp90	LED_Temp60	LED_Temp40	LED_Temp 20	软件版本信息
0	0	0	0	V00
0	0	0	1	V01
0	0	1	0	V02
0	0	1	1	V03
0	1	0	0	V04
0	1	0	1	V05
0	1	1	0	V06
0	1	1	1	V07
1	0	0	0	V08
1	0	0	1	V09
1	0	1	0	V10
1	0	1	1	V11
1	1	0	0	V12
1	1	0	1	V13
1	1	1	0	V14
1	1	1	1	V15

6.3 检测模式 Detection Mode

6.3.1 适用显示屏机型 Applicable to display models

将旋钮旋到 P01 位置，同时按住 K1+K2 键，然后插上电源进入检测模式。

Turn the knob to position P01, press and hold the K1+ K2 key at the same time, and then plug in the power supply to enter the factory mode.

进入测试程序，蜂鸣发出“嘟嘟嘟、嘟嘟嘟”鸣叫，所有指示灯/图标闪烁 3 次，然后熄灭，显示屏剩余时间显示“PLt”，锁门等待选择执行模式。此时若按启停键，程序执行自动检测模式；若旋动旋钮开关则执行手动检测模式。具体流程如下：

Enter the test program, the buzzer will sound, all indicator lights/icons will flash for 3 times, and then turn off, the display screen will display "PLt" for the remaining time, lock the door and wait to select the execution mode. At this time, if you press the "Start/Pause" key, the program will execute the automatic detection mode; if you turn the knob switch, the manual detection mode will be executed.

The specific process is as follows:

设定 Set up	描述 Describe
C01 预洗阀测试 (P02 位置) C01 pre washing valve test (P02 position)	注水设定时间 Water injection setting time.
C02 主洗阀测试 (P03 位置) C02 main washing valve test (P03 position)	注水设定时间 Water injection setting time.
C03 软化阀测试 (P04 位置) C03 softening valve test (P04 position)	注水设定时间 Water injection setting time.
C05 加热测试 (P06 位置) C05 heating test (P06 position)	判断水位是否已在加热水位以上，如未到必须先补水至加热水位，然后启动加热，加热设定时间 Judge whether the water level is above the heating water level, if not, make up water to the heating water level first, then start the heating, set the heating time.
C06 电机转动方向 测试 (P07 位置) C06 motor rotation direction	正转设定时间 Forward rotation setting time.

test (P07 position)	
C07 外筒泄漏测试 (P08 位置) C07 outer cylinder leakage test (P08 position)	判断水位是否已在洗涤 1 水位，如未到必须先补水至洗涤 1 水位，反转设定时间 Judge whether the water level is at the level of washing 1, if not, make up water to the level of washing 1, and reverse the set time.
C08 排脱水测试 (P09 位置) C08 dewatering test (P09 position)	先排水至空筒 0 水位以下，然后以最高速脱水（无须不平衡检测），加速及高速过程持续设定时间，关闭电机输出。 First drain water to the level below 0 of the empty cylinder, then dehydrate at the highest speed (without imbalance detection), and the motor output will be turned off when the acceleration and high-speed process lasts for a set time.

注：Note:

◆测试过程中，检测故障报警，如在当前阶段发生时，立即报警，并停止执行程序。检测模式中的报错包括：开门报错，关门报错，NTC 报错，溢水报错，电机报错。如果发生错误，会立刻排水，关闭其他的负载。

◆During the test, detect the fault alarm, if it occurs in the current stage, alarm immediately and stop the execution of the program. The error reports in the factory mode include: door opening error, door closing error, NTC error, overflow error, and motor error. If an error occurs, the water will be drained immediately and other loads will be shut down.

◆在 D-LED MODEL 机型中，在各阶段测试时剩余时间窗口显示“C01~C08”。

◆In the D-LED MODEL, the remaining time window displays " C01~C08" in each stage of testing.

◆在自动检测模式执行过程中：任何按键及旋钮均不响应，退出模式为旋钮关闭电源。

◆During the execution of automatic detection mode: any button and knob will not respond, and the exit mode is to turn off the power with the knob.

◆在检测模式中：

In the detection mode:

⇒以上测试旋钮位置可任意旋动，对应测试在按动启动暂停键后立即有效；

The above test knob position can be rotated arbitrarily, and the corresponding test is effective immediately after pressing the "Start/Pause" key;

⇒每次测试前均需闭合门锁，否则门锁故障报警；

The door lock must be closed before each test, otherwise the door lock failure will alarm;

⇒各测试阶段均可回旋进行；

The test can be carried out in different stages;

⇒在此模式下，若旋钮不在以上测试位置，则无任何响应；

If the knob is not in the above test position in this mode, there is no response;

◆退出此模式关闭电源旋钮。

◆Exit this mode and turn off the power knob.

6.3.2 适用非显示屏机型 Applicable to non-display models

1) 通电前按住 K1+K2 键不放，通电后直到听到蜂鸣器发出“嘀、嘀、嘀”三声，提示已经进入特殊选择模式。界面显示：程序选择旋钮指示灯显示当前程序旋钮的位置，同时“启动/暂停”指示灯以 1Hz 的频率闪烁。

Hold the K1+K2 button before power on, until the buzzer "di, di, di" is heard, indicating that the special selection mode has been entered. Interface display: the program selection knob indicator shows the current position of the program knob, while the "start/stop" indicator flashes at the frequency of 1Hz.

2) 将程序旋钮转至 P7 位置，按下启动/暂停键，程序进入检测模式。所有 LED 指示灯闪烁 3 秒，开始自动执行检测。

Turn the knob to P7, press the start/ pause button, the program enters detection mode. All LED indicator lights flash for 3 seconds, and the following detection starts automatically.

3) 将程序旋钮转至 P8 位置，按下启动/暂停键，程序进入检测模式。所有 LED 指示灯闪烁 3 秒，然后，再次按下启动/暂停键，开始单步执行当前旋钮位置所对应的检测。

Turn the knob to P8, press the start/ pause button, the program enters detection mode. All LED lights flash for 3 seconds, then press the Start/Pause button again to step through the detection corresponding to the current knob position.

检测流程如下：

The testing process is as follows:

设定 Set up	描述 Describe
预洗阀测试 (P8 位置) Pre washing valve test (P8 position)	注水设定时间 Water injection setting time.
主洗阀测试 (P7 位置) Main washing	注水设定时间 Water injection setting time.

valve test (P7 position)	
软化阀测试 (P6 位置) Softening valve test (P6 position)	注水设定时间 Water injection setting time.
热水阀测试 (P5 位置) Hot water valve test (P5 position)	注水设定时间 Water injection setting time.
加热测试 (P4 位置) Heating test (P4 position)	判断水位是否已在加热水位以上，如未到必须先补水至加热水位，然后启动加热，加热设定时间（功率表读取加热功率） Judge whether the water level is above the heating water level, if not, make up water to the heating water level first, then start the heating, set the heating time (the power meter reads the heating power).
电机转动方向测试 (P3 位置) Motor rotation direction test (P3 position)	正转设定时间 Forward rotation setting time.
外筒泄漏测试 (P2 位置) Outer cylinder leakage test (P2 position)	判断水位是否已在洗涤 1 水位，如未到必须先补水至洗涤 1 水位，反转设定时间 Judge whether the water level is at the level of washing 1, if not, make up water to the level of washing 1, and reverse the set time.
排脱水测试 (P1 位置) Dewatering test (P1 position)	先排水至空筒 0 水位以下，然后以最高速脱水（无须不平衡检测），加速及高速过程持续设定时间，关闭电机输出。 First drain water to the level below 0 of the empty cylinder, then dehydrate at the highest speed (without imbalance detection), and the motor output will be turned off when the acceleration and high-speed process lasts for a set time.

注：Note:

◆测试过程中，检测故障报警，如在当前阶段发生时，立即报警，并停止执行程序。

During the testing process, detect the fault alarm, such as in the current stage, immediately alarm, and stop the execution of the program.

◆关闭电源退出此模式。

Power off to exit this mode.

7.异常报警/异常指示 Abnormality Alarms / Abnormality Indications

注：请先仔细检查故障原因再更换元器件。

Please check the cause of the failure carefully before replacing the components.

报警代码	故障描述	故障条件	可能故障原因	处理方法	机器状态	复位方式
Alarm code	Fault description	Fault conditions	Possible cause of failure	processing method	Machine status	Reset mode
E01 或 脱水灯 闪烁 E01 or “Spin” LED flickers	进水超时 The water of machine fills overtime	进水超过设定 时间尚未到达 设定水位 The water level has not reached the set level for more than setting time.	1、水龙头未打开 或水流太慢 1. Water tap is not open.	1、检查水龙头开 启否及水流大小 1. Open the water tap.	暂停 Pause	启停键 复位 Start stop key reset.
			2、排水管未挂起 2. Drain hose is put down.	2、挂起排水管 2. Hook up the hose.		
			3、水位开关或集 气管漏气 3. Leakage of water level switch or gas collecting pipe.	3、检查水位开关 和集气管装配, 或 更换 3. Check the assembly of water level switch and gas collecting pipe, or change it.		关闭电 源 Turn off the power.
			4、水位开关端子 未插好或线束故 障 4. The connection between the water sensor and wire is not secure or wire is damaged.	4、检查线束端子 插接是否牢固或 更换线束 4. Check the connection and ensure it is secure or change wire.		
			5、进水阀损坏 5. Water inlet valve is damaged.	5、更换进水阀 5. Change the water inlet valve.		

			6、电脑板故障 (进水阀可控硅开路) 6. PCB is damaged (thyristor of inlet valve is open).	6、更换电脑板 6. Change the PCB.		
E02 或漂洗灯闪烁 E02 or "Rinse" LED flickers	门锁故障 There is a Door lock alarm	1、在尝试锁门或解锁时, 门不能锁上或解锁 1. When trying to lock or unlock the door, if the door cannot be locked or unlocked. 2、在运行中检测到门锁打开 2. Door lock open detected in operation.	1、门未关好 1. The door is not locked well.	1、检查门是否关好 1. Lock the door well.	暂停 Pause	启停键复位 Start stop key reset.
			2、门锁故障 2. Door lock is damaged.	2、更换门锁 2. Change the door lock.		关闭电源 Turn off the power.
			3、接线端子未插好或线束故障 3. The connection between the door lock and wire is not secure or wire is damaged.	3、检查线束端子插接是否牢固或更换线束 3. Check the connection and ensure it is secure or change wire.		
			4、电脑板故障 (门锁继电器故障或者可控硅故障) 4. PCB is damaged (door lock relay failure or thyristor failure).	4、更换电脑板 4. Change the PCB.		

E03 或漂洗+脱水灯闪烁 E03 or "Rinse" and "Spin" LEDs flickers	排水超时 The machine drains overtime	排水超过设定时间，还未到空筒水位 The water level of empty cylinder is not reached after setting time of drainage.	1、排水泵过滤器脏堵 1. The drain pump filter is block.	1、清除泵过滤器脏物 1. Clean the filter.	暂停 Pause	启停键复位 Start stop key reset.
			2、排水管堵塞 2. The drainage system pipes are blocked.	2、疏通排水管脏堵 2. Check the drainage system and clean it.		
			3、排水泵故障 3. Drain pump is damaged.	3、更换排水泵 3. Change the drain pump.		关闭电源 Turn off the power.
			4、排水泵线束插头松动、未接或线束故障 4. The connection between the drain pump and wire is not secure or wire is damaged.	4、检查线束端子插接是否牢固或更换线束 4. Check the connection and ensure it is secure or change wire.		
			5、电脑板故障（水泵可控硅击穿或水位开关端子短路） 5. PCB is damaged (water pump SCR breakdown or water level switch terminal short circuit).	5、更换电脑板 5. Change the PCB.		

E04 或 洗涤灯 闪烁 E04 or "Washing" LED flickers	溢水报警 Water overflows the machine	筒内水位超高 (水位开关检测到溢水水位) The water level in the cylinder is too high (the water level switch detects the overflow water level).	1、进水阀故障 1. The water inlet valve is damaged.	1、更换进水阀 1. Change the water inlet valve.	1、闭合门锁, 关闭所有负载, 排水至空筒水位后再持续排设定时间; 1. Close the door lock, close all loads, drain to the empty cylinder water level for setting time. 2、关闭排水泵, 保持水位检测; 当再次检测到溢出水位, 重复上述过程 2. Close the drain pump to maintain the water level detection; when the overflow level is detected again, repeat the above process.	关闭电源 Turn off the power.
			2、水位开关或线束故障 (溢水水位短路) 2. Water level switch or wire is damaged (overflow water level short circuit).	2、检查水位开关及线束 2. Check the water level switch and wire.		
			3、电脑板故障 (进水阀可控硅短路) 3. PCB is damaged (thyristor short circuit of inlet valve).	3、更换电脑板 3. Change the PCB.		

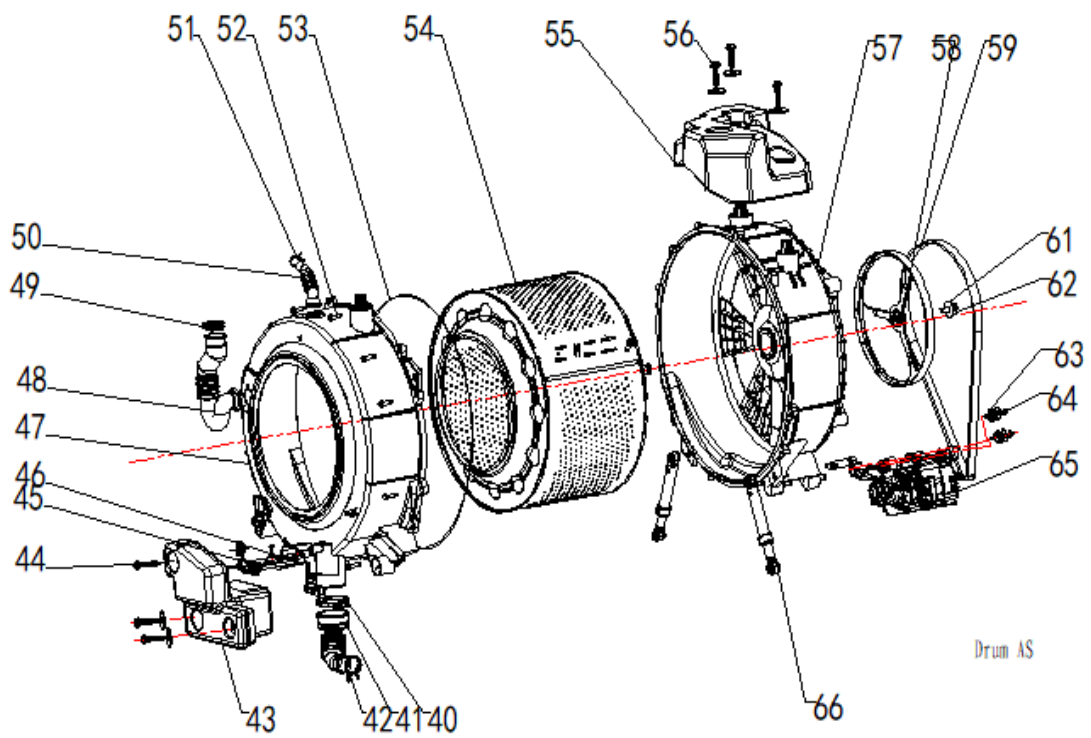
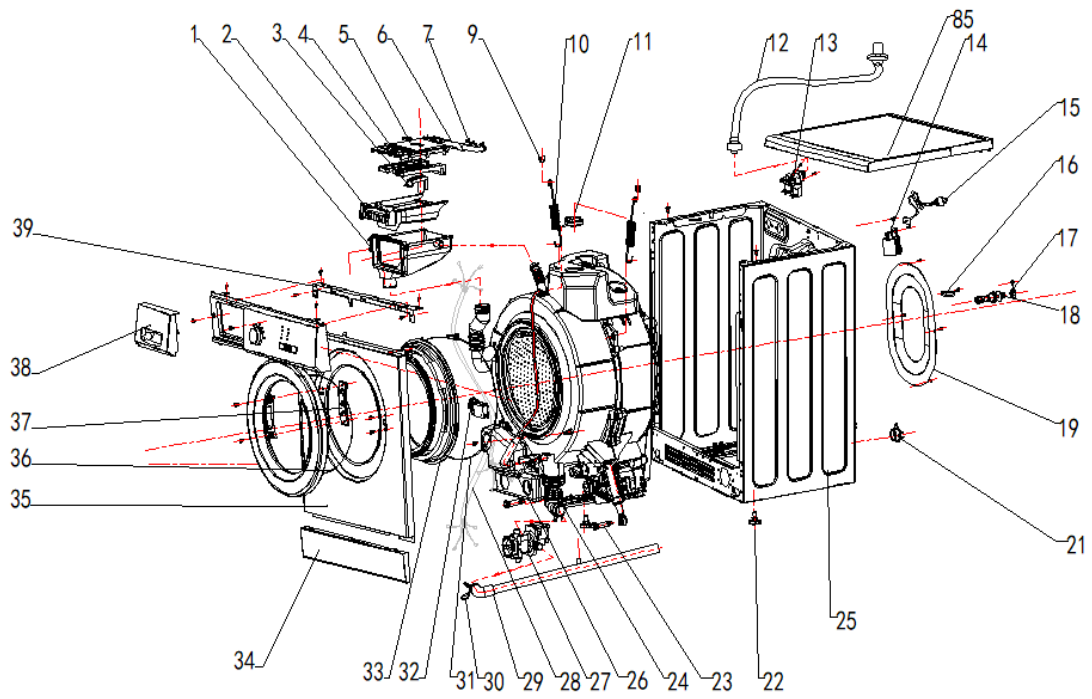
E05 或 洗涤 + 脱水灯 闪烁 E05 or "Washing" and "Spin" LEDs flickers	洗涤电机故障 The motor does not work	1、电机无转速反馈 1. No speed feedback of motor. 2、电机温升过高 2. The temperature rise of motor is too high. 3、电机可控硅短路 3. Motor thyristor short circuit.	1、电机线束端子松动或线束故障 1. The connection between the motor and wire is not secure or wire is damaged.	1、检查线束端子插接是否牢固或更换线束 1. Check the connection and ensure it is secure or change wire.	闭合门锁, 关闭所有负载, 排水至安全水位后再持续排设定时间 Close the door lock, close all loads and drain to a safe level for setting time.	关闭电源 Turn off the power.
			2、电机温升过高热保护动作 2. The motor is protected because of over-heat.	2、检查衣物是否过多或卡住, 断电冷却一段时间后, 可以重新上电运行 2. Check if the machine is overloaded. Switch off the machine, and retry when the motor becomes cool.		
			3、电机本身故障 3. The motor is damaged.	3、更换电机 3. Change the motor.		
E06 或 漂洗 + 洗涤灯 闪烁 E06 or "Washing" and "Rinse" LEDs flickers	水加热管故障 There is a heating tube fault	1、加热超时 (连续加热设定时间, 检测温度 NTC 数值变化小于 2) 1. Heating timeout (continuous heating for setting time, the change of NTC value of detection temperature is less than 2).	1、加热管线束端子松动或线束故障 1. The connection between the heating tube and wire is not secure or wire is damaged.	1、检查线束端子插接是否牢固或更换线束 1. Check the connection and ensure it is secure or change wire.	跳过加热阶段, 程序结束后报警 Skip the heating phase, alarm after the end of the program.	关闭电源 Turn off the power.
			2、加热管故障 2. The heating tube is damaged.	2、更换加热管 2. Change the heating tube.		

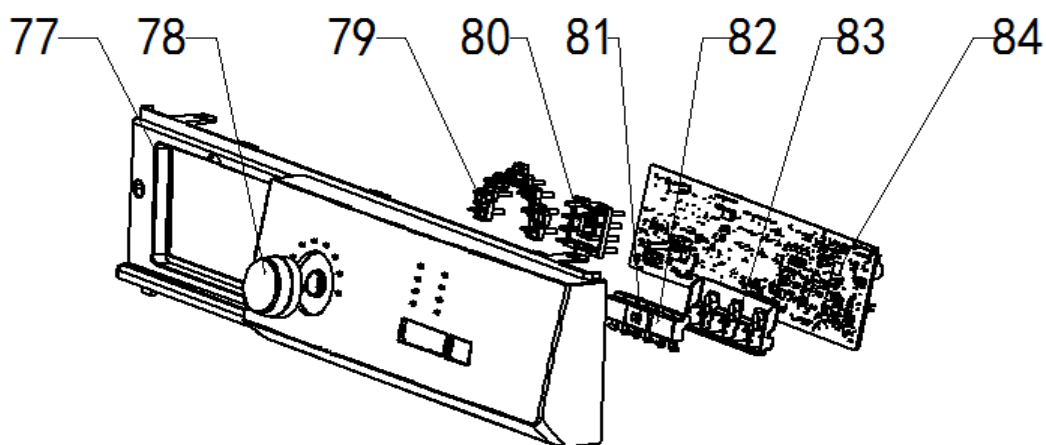
		2、水加热温度传感器超过 90 °C 没有报 E7 错误 2. Water heating temperature sensor exceeds 90 °C error is not reported.	3、电脑板故障 3. PCB is damaged.	3、更换电脑板 3. Change the PCB	锁, 关闭所有负载 (不排水) Close the door lock and close all loads (undrained).	
E07 或漂洗 + 脱水 + 洗涤灯闪烁 E07 or "Washing", "Rinse" and "Spin" LEDs flickers	水加热温度传感器故障 There is a temperature sensor fault	水加热温度传感器电压值范围异常 (短路或断路) Abnormal voltage range of water heating temperature sensor (short circuit or open circuit).	1、水加热温度传感器线束端子松动或线束故障 1. The connection between the wire and temperature sensor is not secure or wire is damaged.	1、检查线束端子插接是否牢固或更换线束 1. Check the connection and ensure it is secure or change wire.	跳过加热阶段, 程序结束后报警 Skip the heating phase, alarm after the end of the program.	关闭电源 Turn off the power.
			2、温度传感器故障 2. The temperature sensor is damaged.	2、更换温度传感器 2. Change the temperature sensor.		
			3、电脑板故障 3. PCB is damaged.	3、更换电脑板 3. Change the PCB.		

8. 爆炸图 Exploded View

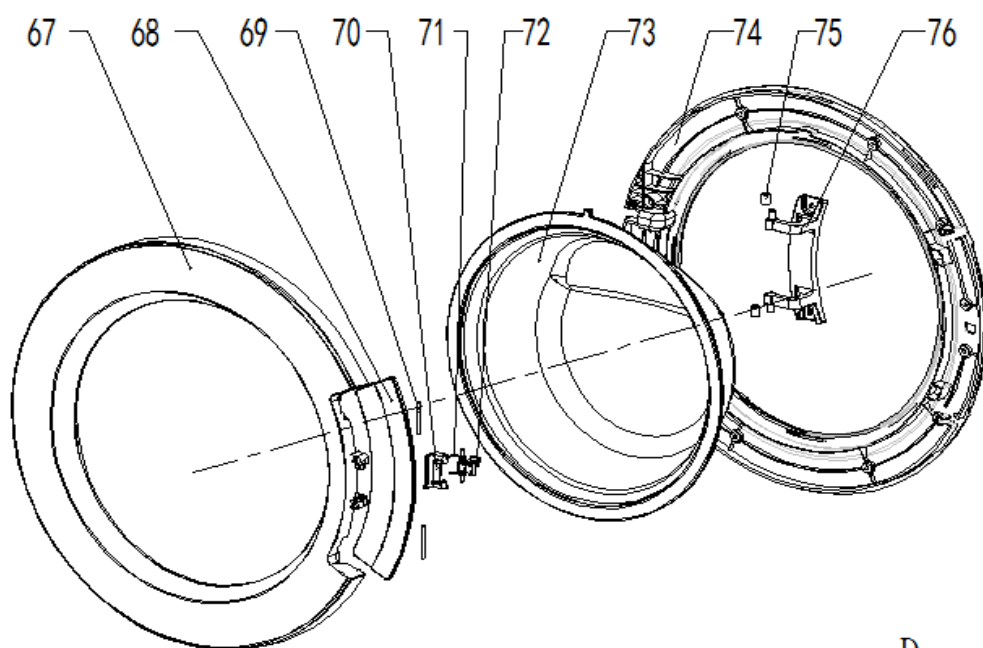
以 XQG70-A712DE 为例。

Take XQG70-A712DE for example.





Control panel AS



Door AS

零部件清单: Parts and components break-down:

XQG70-A712DE

NO.	Code	Name	Name	Quantity
1	XA2QG60.6.2-1(167)	Detergent dispenser housing	进水斗	1
2	XA2QG60.6.1-1(167)	Detergent dispenser	洗衣粉盒	1
3	XA2QG60.6.1-2(167)	Siphon	柔顺剂盖	1
4	XA2QG60.6.2-2(167)	Distributary box	分流盒	1
5	XA2QG60.6.2-3(167)	Distributary box cover	分流盒盖	1
6	XA2QG60.6-1(167)	Hose	进水阀软管	2
7	XBJ01-26	Hose clamp 14	管夹 14	4

9	X1QG60.1-8	Suspension spring stopper	拉簧塑料座	2
10	XQ7QG70.1-2(505)	Suspension spring	外桶拉簧	2
11	XDQ10-05	Pressure sensor	水位开关	1
12	XSL03-04	Inlet hose	进水管	1
13	XDQ02-01	Inlet valve	进水阀	1
14	XA2QG60.8-2(167)	Filter	滤波器	1
15	XDQ05-51	Power cord	电源线	1
16	XSL07-01	Hose clamp 24	管夹 24	1
17	XA2QG60.9-7(167)	Hole cap	孔盖	4
18	XLD03-18	Transportation bolt AS	运输螺栓	4
19	XQ7QG70.1-1(505)	Back cover	后盖板	1
21	XA1QG72D.1-5	Drain hose frame	排水管座	1
22	XA2QG60.1.2(167)	Adjustable feet as	调节脚	1
23	XA2QG60.7-13(167)	Absorber pin	减震器销	1
24	XA2QG60.7-5(167)	Air chamber	气囊	1
25	XA2QG60.1.1(167)	Cabinet as	箱体	1
26	XBJ01-15	Hose clamp 20	管夹 20	1
27	XDQ20-13	Drain pump	排水泵	1
28	XA7QG60.8-1(263)	Wiring harness	线束	1
29	XA1QG72D.9.2-4	Drain hose	排水管	1
30	XBJ01-07	Hose clamp27	管夹 27	1
31	XA1QG72D.7-11	Inner door seal clamp	内铁线	1
32	XA4QG70.5-5(245)	Door lock	门锁	1
33	XA2QG60.7-7(167)	Door seal	门密封圈	1
34	XA7QG60.4-1(885)	Lower panel	下挡板	1
35	XA4QG72E.1-3(062)	Front panel	前盖板	1
36	XA1QG72D.7-10	Outer door seal clamp	外铁线	1
37	XA2QG60.5-2(167)	Hinge support plate	门铰加强板	1
38	XA1QG72DR.6.1-3(885)	Drawer	拉盖	1
39	XA2QG70E.1-1(044)	Upper frame	前上加强板	1
40	XBJ01-09	Hose clamp 70	管夹 70	1
41	XA2QG60.7-4(167)	Drain tube	排水软管	1
42	XBJ01-03	Hose clamp 36	管夹 36	1
43	XA2QG60.7-8(167)	Lower balancer	下配重块	1
44	XLD02-12	Lower balancer bolt AS	下配重块紧固螺栓	4
45	XA7QG60.8-2(263)	Heater	发热管	1
46	XA1QG72D.7.2-2	Heater support	发热管支架	1
47	XA2QG60.7.2-1(168)	Front tub	外桶前盖	1
48	XA2QG60.7-3(167)	Inlet tube	进水软管	1
49	XBJ01-16	Hose clamp43	管夹 43	1
50	XQ7QG70.7E-2(619)	Exhaust hose	排气软管	1
51	XBJ01-15	Hose clamp 20	管夹 20	1
52	GB/T16824.2-1997	Bolt	螺钉	12

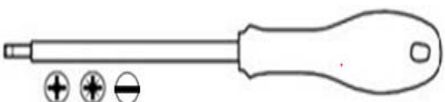
53	XA2QG60.7-14(167)	Tube seal	外桶密封圈	1
54	XA2QG60.7.5(168)	Drum as	内桶组件	3
55	XA7QG60.7-1(263)	Upper balancer	上配重块	1
56	XLD03-23	Bolt AS	六角法兰面木螺钉	3
57	XA8QG80.7.3(975)	Back tub assembly	外桶后盖组件	1
58	XQ7QG70.7-15(505)	Pulley	皮带轮	1
59	XA1QG72D.7-2	Belt	皮带	1
61	GB/T5287 10	Washer	垫圈	1
62	GB/T 5789-1986	Bolt M10	六角头螺栓	1
63	X1QG60.7.3-6	Rubber ring 1	电机橡胶套	5
64	XLD03-15	Bolt AS	螺栓组件	2
65	XDQ04-35	Series motor	串激电机	1
66	XA2QG60.7-12(167)	Absorber	阻尼减震器	2
67	XA4QG70E.5-6(885)	Door outer frame	门装饰圈	1
68	XA4QG70E.5-8(885)	Door handle	门拉手	1
69	XA4QG70E.5-10(062)	Handle pin	门拉手轴	3
70	XA4QG70E.5-4(062)	Door hook support	门扣定位架	1
71	XA4QG70E.5-9(062)	Handle spring	门拉手扭簧	1
72	XA4QG70E.5-7(062)	Door hook	门扣	1
73	XA1QG72D.5-5	Door glass	玻璃窗	1
74	XA4QG70E.5-3(062)	Door (Inner) frame	门内座	1
75	XA1QG72D.5-2	Hinge cap	门铰套	2
76	XA2QG60.5-3(167)	Door hinge	门铰	1
77	XA7QG60.3-1(885)	Control panel	控制面板	1
78	XA7QG60.3-2(855)	Knob	旋钮	1
79	XA7QG60.3-3(263)	Light guide 1	导光柱 1	2
80	XA7QG60.3-4(263)	Light guide 2	导光柱 2	1
81	XA7QG60.3-5(263)	Botton 1	按键 1	1
82	XA7QG60.3-6(263)	Botton 2	按键 2	2
83	XA7QG60.3-7(263)	Button support	按键固定架	1
84	XA7QG70DE.3-8(960)	PCB	电脑板	1
85	XA2QG60.2(885)	Top cover as	顶盖组件	1

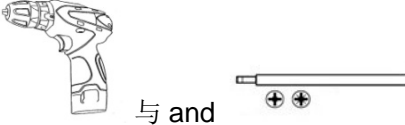
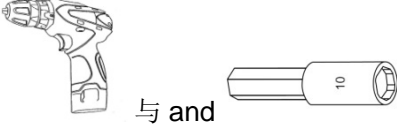
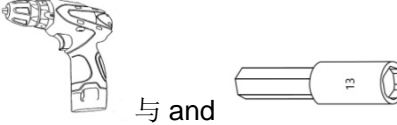
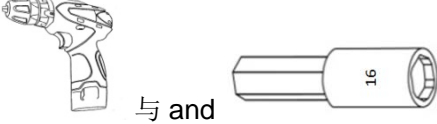





注：其余机型的零部件明细以机型爆炸图为主。

Note: The details of other models are mainly based on model explosion diagram.

9. 机器拆卸步骤 Machine Disassembling Procedures

9.1 工具明细 Using tools:

NO.	名称 Name	示意图 Sketch Map
1	一字批、十字批、电批 Straight screwdriver or Cross screwdriver	

	or Electric screwdriver	或 or 
2	电批与 10 号外六角套筒 Electric screwdriver and 10 Outer hexagon sleeve	
3	电批与 13 号外六角套筒 Electric screwdriver and 13 Outer hexagon sleeve	
4	电批与 16 号外六角套筒 Electric screwdriver and 16 Outer hexagon sleeve	
5	10 号扳手 10 wrench	
6	剪钳或剪刀 Diagonal cutters or Scissors	
7	平口钳 Combination pliers	
8	防静电手套 Antistatic gloves	
9	手套 Gloves	

注：1.拆卸钣金件时，请佩戴手套，做好防护，以免受伤；

2.所有部件在组装时，请按原始装配情况装配；

Note:


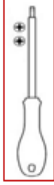
1. When removing sheet metal parts, please wear gloves and protect them to avoid injury;


2. When assembling all parts, please assemble them according to the original condition;

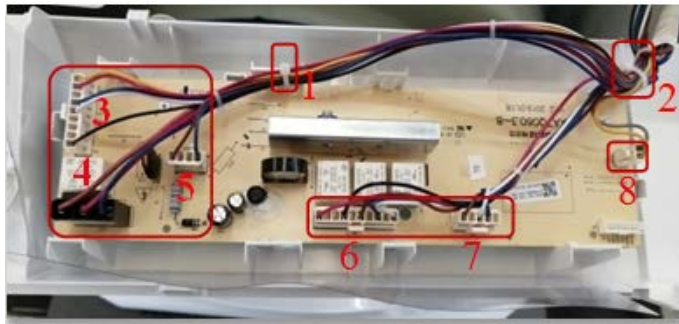
9.2 拆卸步骤 Disassembly Procedure

以 XQG60-A712DE 为例。

Take XQG60-A712DE for example.

拆卸工序 Disassembly procedure	简要说明 Brief description	注意事项 Matters needing attention
拆除顶盖板和后盖板 Remove top cover as and back cover		
	<p>1.用十字批拆除固定顶盖板螺钉 <u>1、2</u> Remove the screws <u>1 and 2</u> fixing the top cover as with a cross screwdriver.</p> <p>2.用手把顶盖板往后推，同时取出顶盖板 Push back the top cover plate by hand and take out the top cover as.</p> <p>3.用十字批拆除后盖板五个螺钉 <u>3、4、5、6、7</u> Remove five screws <u>3, 4, 5, 6 and 7</u> of the back cover with a cross screwdriver.</p>	<p>1.拆出的顶盖板和后盖板做好防刮花保护 The top cover as and back cover plates removed shall be protected against scratching.</p> <p>2.在拆除所有螺钉时注意力度，以免刮花箱体 Pay attention to the strength when removing all screws to avoid scratching the cabinet.</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p style="text-align: center; color: red;">使用工具 Using tools</p> <div style="text-align: center;">  <p>十字批 Cross screwdriver</p> </div> </div>
拆除面板组件 Remove control panel as		

	<p>1.拉出拉盖，用手按压柔顺剂盖（图一位置）同时抽出拉盖 Pull out the drawer, Press down the release catch (fig.1), and pull out the drawer at the same time.</p>	<p>抽出的拉盖做好防刮花保护 Pull out the drawer to protect, avoid scratching.</p>
	<p>2.用十字批拆除左图中所圈螺钉 <u>1、2、3、4</u> Remove the screws <u>1, 2, 3 and 4</u> circled in the left figure with a cross screwdriver. 3.用手扳箭头所示的三个扣位 <u>5、6、7</u> 后把面板组件翻转约 90 度 Turn the <u>5, 6 and 7</u> buckles as shown, and turn the panel assembly outward about 90 degrees.</p>	<p>在拆除左图箭头位置 <u>5、6、7</u> 时注意避免掰断扣位 When turn the <u>5, 6, 7</u> buckles to avoid breaking the buckle with too much force.</p> <div data-bbox="1182 1151 1442 1538" style="border: 1px solid red; padding: 5px;"> <p style="text-align: center;">使用工具 Using tools</p>  <p style="text-align: center;">十字批 Cross screwdriver</p> </div>



4.用剪钳剪去图中所示两段扎带 1、2
Use diagonal cutters to cut out tie 1 and 2 as shown in the figure.

5.拔出电路板上的接线端子 3、4、5、6、7、8

Pull out all wiring harness terminals 3, 4, 5, 6, 7 and 8 on the PCB.

6.取出面板组件后做好防静电和防刮花保护

After the control panel as is removed, do a good job of anti-static and anti scratch protection.

1.使用剪钳时注意不要剪断线组

Pay attention not to cut the thread group when using the diagonal cutters.

2.注意拔出接线端子时请戴防静电手套

Please wear antistatic gloves when pulling out the terminal.

3.装机时需另外补充两条扎带

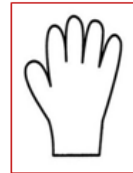
Additional ties should be added when reinstalling the machine.

使用工具
Using tools



剪钳


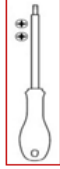
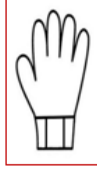

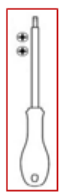
Diagonal cutters



防静电手套

Antistatic gloves

拆除前上加强板
Remove the upper frame

	<p>1.用十字批拆去图中所示的四个螺钉 <u>1</u>、<u>2</u>、<u>3</u>、<u>4</u></p> <p>Remove the four screws <u>1</u>, <u>2</u>, <u>3</u> and <u>4</u> shown in the left figure with a cross screwdriver.</p> <p>2.取出加强板</p> <p>Take out the upper frame.</p>	<p>前上加强板锋利，取出时建议戴防护手套进行操作</p> <p>The upper frame is sharp, it is recommended to wear protective gloves for operation.</p> <div data-bbox="1193 629 1442 1021" style="border: 1px solid red; padding: 5px;"> <p style="text-align: center;">使用工具 Using tools</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>十字批 Cross screwdriver</p> </div> <div style="text-align: center;">  <p>防护手套 Gloves</p> </div> </div> </div>
<p>拆除门组件 Remove the Door AS</p>		
	<p>1.打开门组件用十字批拆除螺钉 <u>1</u>、<u>2</u></p> <p>Open the door and exit the screws <u>1</u> and <u>2</u> with a cross screwdriver.</p> <p>2.把门组件抬起同时取出门组件，做好防护</p> <p>Lift the door, take out the door and protect it.</p> <p>3.用手拉伸门封 <u>3</u>，取出外铁线，整理密封圈到前盖板内</p> <p>Stretch the door seal <u>3</u> by hand, take out the outer gasket clamp, and arrange the outer gasket clamp into the lower frame.</p>	<p>1.拆出的门组件做好防刮花保护</p> <p>The door removed shall be protected against scratching.</p> <p>2.拆除螺钉时注意前盖板不要刮花</p> <p>Pay attention not to scratch the cabinet when removing the screw.</p> <div data-bbox="1193 1637 1442 2029" style="border: 1px solid red; padding: 5px;"> <p style="text-align: center;">使用工具 Using tools</p> <div style="text-align: center;">  <p>十字批 Cross screwdriver</p> </div> </div>
<p>拆除下挡板</p>		

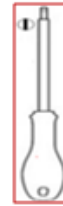
Remove the lower cover



用一字批插入下挡板与前盖板间缝隙中（图一位置 1、2 扣位），然后往上扳，取出下挡板
Open the lower cover with a straight screwdriver. (fig.1 position 1, 2 buckles), then pull it up and take out the lower cover.

1.使用一字批拆出下挡板时请注意不要刮花箱体
Pay attention not to scratch the cabinet when removing lower cover.
2.拆出的下挡板做好防刮花保护
The lower cover removed shall be protected against scratching.

使用工具
Using tools



一字批

Straight
screwdriver

拆除前盖板组件和门锁

Remove the door lock and front panel



1.用十字批拆除左图的七个螺钉 1、2、3、4、5、6、7

Remove the seven screws 1, 2, 3, 4, 5, 6 and 7 shown in the left figure with a cross screwdriver.

2.取出前盖板后, 取出门锁并把门锁端子拔出, 做好防护

After removing the front panel, take out the door lock and pull out the door lock terminal and protect it.

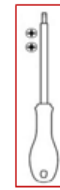
1.拆除螺钉时注意前盖板不要刮花

Pay attention not to scratch the cabinet when removing the screw.

2.拆出的门锁和挡水片注意做好防护措施

The door lock and water baffle should be protected.

使用工具
Using tools



十字批

Cross screwdriver

拆除进水阀组件

Remove the water valve



1. 拔出进水阀组件两个接线端子 1、2
Pull out the two terminals 1 and 2 of the water valve.
2. 用十字批拆除箱体背面两个螺钉 3、4，取出进水阀组件
Remove the two screws 3 and 4 on the back of the water valve with a cross screwdriver, and take out the water valve.

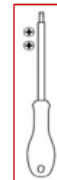
1. 注意原机器上的进水阀接线端子 1、2 的顺序，重装时不要接反

Pay attention to the sequence of water valve terminals

1 and 2 on the original machine, and do not connect them reversely when reassembling,
2. 注意拆 3、4 位置的螺钉时不要刮花箱体

Pay attention not to scratch the cabinet when removing the screws at positions 3 and 4.

使用工具
Using tools



十字批

Cross screwdriver

拆除进水斗组件
Remove the inlet housing

	<p>1.用手把排气软管 <u>1</u> 拔出 Pull out the exhaust hose <u>1</u> by hand.</p> <p>2.用手把进水软管 <u>2</u> 从外桶中拔出 Pull the inlet hose <u>2</u> out of the outer drum by hand.</p> <p>3.从扣位 <u>3</u> 中取出进水斗组件 Remove the inlet housing from the buckle position <u>3</u>.</p> <p>4.拆出的进水斗组件做好防护 Take out the inlet housing and protect it.</p>	<p>排气软管、进水软管装回机器时要注意卡在对应的孔位上 The exhaust hose and inlet hose should be stuck on the corresponding hole position when they are installed back into the machine.</p>
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拆除发热管线组和箱体地线
Remove the heater wire and ground wire

	<p>1.拔出左图发热管上的所有接线端子 <u>1</u>、<u>2</u>、<u>3</u>、<u>4</u> Pull out all terminals <u>1</u>, <u>2</u>, <u>3</u> and <u>4</u> on the heater in the left figure.</p> <p>2.用十字批拆除箱体处地线螺钉 <u>5</u> Remove the ground screw <u>5</u> at the cabinet with a cross screwdriver.</p>	<p>拔出接线端子时注意不要扯断线 Pay attention not to break the wire when pulling out the terminal.</p>
<p style="text-align: center;">使用工具 Using tools</p> <div style="text-align: center;"> <p>十字批 Cross screwdriver</p> </div>		

拆除排水泵线组、气囊管和排水软管
Remove the air chamber tube, drain pump wire and drain hose



1.用十字批拆除左图
1固定气囊管的螺钉
Remove the screw 1
for securing the Air
chamber tube
shown in the left
figure with a cross
screwdriver.

2.用剪钳把 2、3 扎带
剪断
Use diagonal cutters
to cut out tie 2 and
3.

3.用手把排水泵接线
端子 4、5 按下自锁
开关后拔出
Press the
self-locking switch
of the terminals 4
and 5 of the drain
pump by hand and
pull it out.

4.用平口钳夹紧排水
软管管夹 6 后同时把
排水软管拔出
Clamp the drain
hose clamp 6 with
flat pliers and pull
out drain hose at the
same time.

5.用平口钳夹住气囊
管管夹 7 卡口拔出气
囊管
Clamp the air
chamber clip 7
bayonet with the flat
pliers and pull out
the air chamber
tube.

6.用平口钳夹住排水
软管管夹 6 后同时把
排水软管拔出
Clamp the drain
hose clamp 6 with
flat pliers and pull
out drain hose at the
same time.

7.用平口钳夹住气囊
管管夹 7 卡口拔出气
囊管
Clamp the air
chamber clip 7
bayonet with the flat
pliers and pull out
the air chamber
tube.

8.用平口钳夹住气囊
管管夹 7 卡口拔出气
囊管
Clamp the air
chamber clip 7
bayonet with the flat
pliers and pull out
the air chamber
tube.

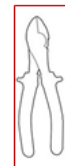
9.用平口钳夹住气囊
管管夹 7 卡口拔出气
囊管
Clamp the air
chamber clip 7
bayonet with the flat
pliers and pull out
the air chamber
tube.

使用剪钳时注意不
要剪断线组
Pay attention not to
cut the thread group
when using the
diagonal cutters.

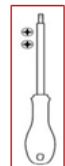
Pay attention not to
cut the thread group
when using the
diagonal cutters.

使用工具

Using tools



剪钳



十字批

Diagonal Cross
cutters

screwdriver

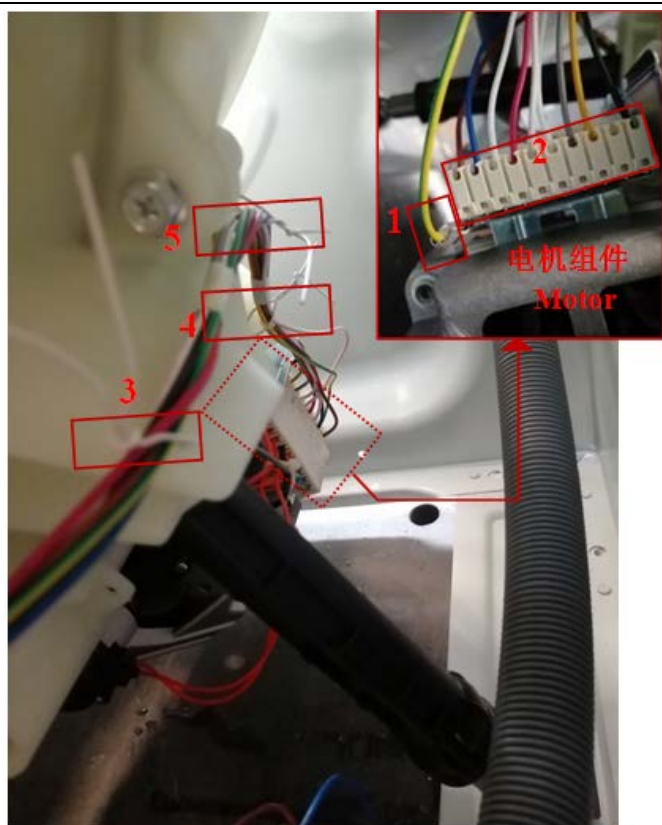


平口钳

Combination pliers

拆除电机线组

Remove the motor wire



1. 拆除绑扎线束的铁扎线 3、4、5 (沿电机线束共有三处)

Remove the iron binding wire harness 3, 4 and 5 (there are three places along the motor wiring harness).

2. 拔出电机线组 2 和电机地线 1

Pull out motor wire group 2 and motor ground 1.

1. 铁扎线保留在原来位置, 装回机器时需要把线束束紧

The iron binding wire is left in its original position and the wire harness needs to be tightened when it is installed back into the machine.

2. 拆出的线组做好防护措施

Protect the removed wire.

拆除上配重块和水位开关

Remove the upper balancer and water level switch



1.用 13 号外六角套筒配合电批拆除左图上配重块螺钉 1、2、3

Remove the upper balancer screws 1, 2 and 3 with No.13 outer hexagon sleeve and electric driver.

2.拆出的配重块要轻拿轻放，避免损坏
The removed balancer should be handled with care to avoid damage.

3.拔出水位开关接线端子 4、5、6，把水位开关旋转 90 度，拆下水位开关
Pull out the four sockets 4, 5 and 6 of the water level switch, turn the pressure switch 90 degrees and remove the Water level switch.

注意水位开关的线组顺序：4是两条蓝色，5是一条粗和一条细的蓝色或黑色，6是单条白色，重装时注意不要接错，否则可能引起报警

Pay attention to the line group sequence of pressure switch: 4 two blue line, 5 one thick and one thin blue or black line, 6 single white line. Pay attention not to connect the wrong line when reassembling, otherwise it may cause alarm.

使用工具
Using tools



电批



Electric
screwdriver



13 号外六角套筒
13 Outer hexagon sleeve

拆除减震器销（箱体）

Remove absorber pin (Cabinet)

	<p>往后倾斜机器，用平口钳夹住减震器销后侧卡扣并拉出减震器销（图 1、2）</p> <p>Tilting the machine back, clamp the shock absorber pin back clips with flat pliers and pull out the shock absorber pin (fig.1, 2).</p>	<p>1.拆出的减震器销注意防尘和杂物</p> <p>Pay attention to dust and sundries when removing the absorber pin.</p> <p>2.组装时要注意减震器孔的方向</p> <p>Pay attention to the direction of shock absorber hole during assembly.</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p style="text-align: center; color: red;">使用工具</p> <p style="text-align: center; color: red;">Using tools</p> <div style="text-align: center;">  <p>平口钳</p> <p>Combination pliers</p> </div> </div>
<p>拆除外桶组件</p> <p>Remove tub as</p>		



1.整理线束和水位开关，避免在取出桶组件时刮到线束

Tidy the wire and water level switch to avoid scratching the wire when removing the tub as.

2.紧握弹簧两端用力往上提直到桶组件完全脱离箱体为止

Hold both ends of the suspension spring tightly and lift it up with force until the tub as is completely separated from the cabinet.

1.提起桶组件时应避免碰到线组、水位开关、箱体或滤波器

Avoid touching the line group, pressure switch, filter and other parts when putting forward the tub as.

2.外桶拿出后应轻拿轻放，避免碰烂外桶或电机组件

Handle the outer barrel with care after taking it out to avoid damaging the outer barrel or motor components.

3.堆放时请密封口向下，皮带轮向上
When stacking, please keep the sealing opening downward and the belt pulley upward.

拆除排水泵组件
Remove pump as



1.用十字批拆除固定排水泵四个螺钉

1、2、3、4

Remove the four screws 1, 2, 3 and 4 holding the drain pump with a cross screwdriver.

2.用平口钳夹紧排水管管夹同时用力拔出排水管

Clamp the pipe clamp with flat jaw pliers and pull out the drainage pipe with force at the same time.

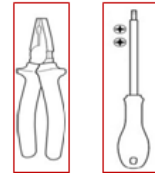
1.安装排水泵螺钉时请注意不能滑牙或漏装，避免产生噪音

When installing the screw of the pump, please pay attention not to slip or miss, so as to avoid noise.

2.拆出的排水泵做好防护

Protect the removed pump.

使用工具
Using tools



平口钳

十字批

Combination

Cross

ation

screwdriver

pliers

拆除过滤器和电源线

Remove filter and power cord



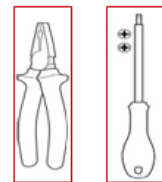
1. 拔出滤波器上的四个接线端子 1、2、3、4 和接地端子 5
Pull out the four terminals 1, 2, 3, 4 and grounding terminal 5 on the filter.
2. 用十字批拆除背面的两个螺钉 6、7
Remove the two screws 6 and 7 on the back with a cross screwdriver.
3. 取出滤波器
Remove the filter.
4. 用平口钳夹紧电源线位置 8 后旋转 90 度后拉出电源线
Clamp position 8 of the power cord with a pair of flat tongs and pull out the power cord after rotating 90 degrees.

1. 滤波器上的 1、2、3、4 位置线组顺序不能乱: 1 单条电源线蓝色, 2 单条粗的蓝色, 3 一条粗和一条细的棕色, 4 单条电源线棕色, 否则可能引起报警

The sequence of line groups of position 1, 2, 3 and 4 on the filter: 1 single power line is blue, 2 one thick and one thin blue, 3 one thick and one thin brown, 4 single power line is brown, which cannot be connected wrong, otherwise it may cause alarm.

2. 拆出的滤波器和电源线做好防护
Protect the removed filter and power cord.

使用工具 Using tools



平口钳

十字批

Combin

Cross

ation

screwdriver

pliers

拆除发热管组件 Remove the heater

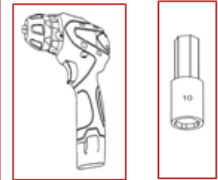


用 10 号套筒及电批把固定发热管螺母 1 拆除，把发热管组件取出

Remove the nut 1 of the heater with No.10 sleeve and electric driver, and then take out the heater.

拆出的发热管组件要做好防护措施
Protect the removed the heater.

使用工具 Using tools



电批 10 号外六角套筒
Electric screwdriver 10 outer hexagon sleeve

拆除电机组件

Remove the motor



1.取出皮带
Remove the belt.
2.用 10 号外六角套筒及电批把固定电机的两个螺钉 1、2 和橡胶套拆除

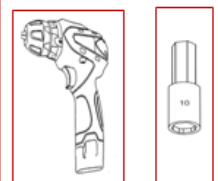
Remove the two screws 1、2 and rubber sleeve fixing the motor with No.10 outer hexagon sleeve and electric driver.

3.往上提，双手把电机取出放好
Lift the motor up with both hands and put it in place.

1.拿取电机时请勿提线，避免线断
Do not lift the wire when taking the motor to avoid wire breakage.

2.拆出的皮带和电机组件做好防护措施
Remove the belt and motor should be protected.

使用工具 Using tools



电批 10 号外六角套筒
Electric screwdriver 10 outer hexagon sleeve

拆除下配重块

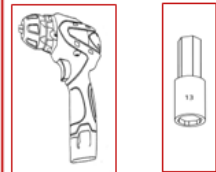
Remove lower balancer



用 13 号外六角套筒
配合电批拆除下配重
块 3 颗螺钉 1、2、3
Remove the lower
balancer screws 1, 2
and 3 with No.13
outer hexagon
sleeve and electric
driver.

拆出的配重块要轻
拿轻放，避免损坏
The removed
balancer should be
handled with care to
avoid damage.

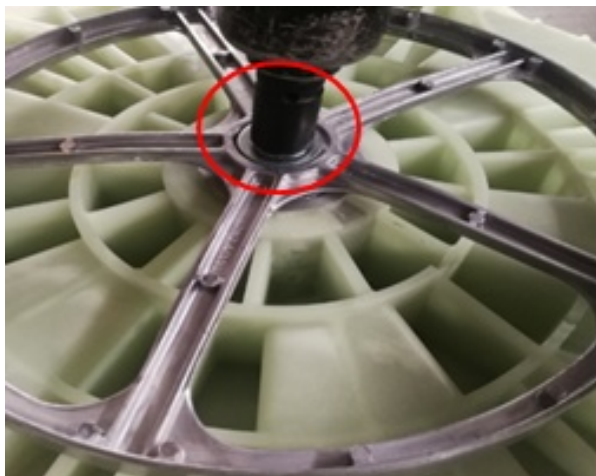
使用工具
Using tools



电批	13 号外六
Electric	角套筒
screwdriver	13 Outer
	hexagon
	sleeve

拆除皮带轮

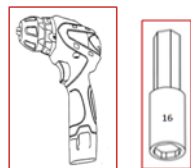
Remove the pulley



用 16 号外六角套筒
配合电批拆除皮带轮
螺钉，取下皮带轮
Remove the pulley
screws with No.16
outer hexagon
sleeve and electric
driver.

拆出的皮带轮做好
防护措施
Remove the pulley
should be
protected.

使用工具
Using tools



电批	16 号外六
Electric	角套筒
screwdriver	16 outer
	hexagon
	sleeve

拆除减震器销（外桶）

Remove absorber pin (Tub)

	<p>用平口钳夹住减震器销后侧卡扣并拉出减震器销（左右侧各一个）</p> <p>Clamp the shock absorber pin back clips with flat pliers and pull out the shock absorber pin (one on the left and one on the right).</p>	<p>使用工具 Using tools</p>  <p>平口钳 Combination pliers</p>
<p>拆除外桶前盖和内桶 Remove front tub and drum</p>		
	<p>1.用 10 号套筒及电批拆除固定外桶前后盖的 12 颗螺钉</p> <p>Remove the twelve screws fixed back tub and front tub with No.10 outer hexagon sleeve and electric driver.</p> <p>2.取下外桶前盖、内桶</p> <p>Remove the front tub and drum.</p>	<p>拆出的外桶前盖、内桶做好防护措施</p> <p>Remove the front tub and drum should be protected.</p> <p>使用工具 Using tools</p>  <p>电批 10 号外六角套筒 Electric screwdriver 10 outer hexagon sleeve</p>